



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Mike Braun
Governor

Clint Woods
Commissioner

October 1, 2026

VIA ELECTRONIC MAIL

Mr. Mike Bowman
Northwest Shelby County RSD
105 South Walnut Street
Fairland, Indiana 46126

Dear Mr. Bowman:

Re: 327 IAC 3 Construction
Permit Application
Wastewater Treatment Plant
Northwest Shelby County RSD WWTP - Phase 1
SRF Project Permit Approval No. L-0824
Fairland, Indiana
Shelby County

The application, plans and specifications, and supporting documents for the above-referenced project have been reviewed and processed in accordance with rules adopted under 327 IAC 3. Enclosed is the Construction Permit (Approval No. L-0824), which applies to the construction of the above-referenced proposed water pollution treatment/control facility to be located at 4800 West County Road 600 North in Fairland, Indiana.

Please review the enclosed permit carefully and become familiar with its terms and conditions. In addition, it is imperative that the applicant, consulting architect/engineer (A/E), inspector, and contractor are aware of these terms, conditions, and reporting and testing requirements.

It should be noted that any person affected or aggrieved by the agency's decision in authorizing the construction of the above-referenced facility may, within fifteen (15) days from date of mailing, appeal by filing a request with the Office of Administrative Law Proceedings for an adjudicatory hearing in accordance with IC 4-21.5-3-7 and IC 13-15-6. The procedure for appeal is outlined in more detail in Part III of the attached construction permit.

The approval applies to the technical acceptability of the submitted plans and does not imply that the entire project is eligible for SRF financing or that funds are available.

Visit on.IN.gov/survey or scan the QR code to provide feedback.

We appreciate your input!

Letthead INDY R-01.2024



Plans and specifications were prepared by Egis BLN USA INC, certified by Mr. Drew Wilson, P.E., and submitted for review on July 9, 2026, with additional information submitted on July 10, July 13, July 15, September 11, September 14, September 18, September 21, and September 22, 2026.

Any technical/engineering questions concerning this permit may be addressed to Mr. Dharmendra Parikshak of our staff, at 317/232-8660.

Sincerely,

A handwritten signature in black ink that reads "Kevin D. Czerniakowski". The signature is written in a cursive style with a large, stylized 'K' and 'C'.

Kevin D. Czerniakowski, P.E.
Section Chief
Facility Construction and
Engineering Support Section
Office of Water Quality

Project No. SRF-0863

Enclosures

cc: Shelby County Health Department

Drew Wilson, P.E., Egis BLN USA INC

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
AUTHORIZATION FOR CONSTRUCTION OF
WATER POLLUTION TREATMENT/CONTROL FACILITY
UNDER 327 IAC 3

DECISION OF APPROVAL

Northwest Shelby County Regional Sewer District, in accordance with the provisions of IC 13-15 and 327 IAC 3, is hereby issued a permit to construct the proposed water pollution treatment/control facility to be located at 4800 West County Road 600 North in Fairland, Indiana. The permittee is required to comply with requirements set forth in Parts I, II and III hereof. The permit is effective pursuant to IC 4-21.5-3-4(d). If a petition for review and a petition for stay of effectiveness are filed pursuant to IC 13-15-6, an Environmental Law Judge may be appointed for an adjudicatory hearing. The force and effect of any contested permit provision may be stayed at that time.

NOTICE OF EXPIRATION DATE

Authorization to initiate construction of this water pollution treatment/control facility shall expire at midnight one year from the date of issuance of this construction permit. In order to receive authorization to initiate construction beyond this date, the permittee shall submit such information and forms as required by the Indiana Department of Environmental Management. It is requested that this information be submitted sixty (60) days prior to the expiration date to initiate construction. This permit shall be valid for a period of five (5) years from the date below for full construction completion.

Issued on October 1, 2026, for the Indiana Department of Environmental Management.



Kevin D. Czerniakowski, P.E.
Section Chief
Facility Construction and
Engineering Support Section
Office of Water Quality

WATER POLLUTION TREATMENT/CONTROL FACILITY DESCRIPTION

Northwest Shelby County Regional Sewer District does not have an existing WWTP. Residential customers in the service area use onsite septic systems. Trinton School WWTP, which is located within NW Shelby County RSD service area operates a Class I, 0.039 MGD extended aeration type packaged WWTP (NPDES Permit No. IN0047490) which is not adequately sized to serve all residential customers in the service area. Residents of the service area have been dealing with issues with onsite septic systems. Several septic systems have failed or were never properly designed for relatively small lot sizes found throughout the service area.

The proposed project involves installation of gravity sewers throughout the Town of Fairland, Clover Village community, the Triton School system and surrounding area under a separate construction permit. There will be two main lift stations that will convey influent wastewater flow to the proposed 0.20 MGD WWTP located at the project location south of Triton Schools. The proposed WWTP will consist of influent flow metering, screening equipment, two Sequencing Batch Reactor (SBR) tanks, ultraviolet (UV) disinfection, plant drain/return stream pump station, effluent flow metering, cascade post aeration, effluent pipe to Snail Creek, aerobic sludge digestion/sludge holding tank, control/electrical/chemical building, site piping, site work, electrical work (including 300 kW standby generator), control work, and other work associated with the proposed project.

CONDITIONS AND LIMITATIONS TO THE AUTHORIZATION FOR
CONSTRUCTION OF WATER POLLUTION TREATMENT/CONTROL FACILITY

During the period beginning on the effective date of this permit and extending until the expiration date, the permittee is authorized to construct the above described water pollution treatment/control facility. Such construction shall conform to all provisions of State Rule 327 IAC 3 and the following specific provisions:

PART I

SPECIFIC CONDITIONS AND LIMITATIONS TO THE CONSTRUCTION PERMIT

Unless specific authorization is otherwise provided under the permit, the permittee shall comply with the following conditions:

1. Additional treatment facilities shall be installed if the proposed facilities prove to be inadequate or cannot meet applicable federal or state standards.
2. Any local permits required for this project, along with zoning or easement acquisition, shall be obtained before construction is initiated.

3. After construction, this agency shall be given advance notice of the start-up of the facilities.
4. If pollution or nuisance conditions are created, immediate corrective action will be taken by the permittee.
5. If construction is located within a designated floodway, a permit may also be required from the Department of Natural Resources prior to start of construction. It is the permittee's responsibility to coordinate with that agency and obtain any required approvals if applicable. Questions may be directed to the Technical Services Section, Division of Water at 317/232-4160.
6. If this project includes a change in design flow, addition of new treatment unit(s), or modification/removal of existing treatment unit(s), an NPDES Permit modification will likely be required. This would include any CSO treatment addition/modification. Questions may be directed to the NPDES Permit Section, Office of Water Quality at 317/233-0469
7. The sewage treatment plant must be capable of providing the same degree of treatment during construction as prior to of the existing facilities. If this is not feasible, the plans for reduced degree of treatment must be submitted to the Department of Environmental Management for consideration of approval.

Failure to meet guidelines as set forth in the above conditions could be subject to enforcement proceedings as provided by 327 IAC 3-5-3.

PART II

GENERAL CONDITIONS

1. No significant or material changes in the scope of the plans or construction of this project shall be made unless the following provisions are met:
 - a. Request for permit modification is made 60 days in advance of the proposed significant or material changes in the scope of the plans or construction;
 - b. Submit a detailed statement of such proposed changes;
 - c. Submit revised plans and specifications including a revised design summary; and
 - d. Obtain a revised construction permit from this agency.
2. This permit may be modified, suspended, or revoked for cause including, but not limited to the following:
 - a. Violation of any term or conditions of this permit:
 - b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts.
3. Nothing herein shall be construed as guaranteeing that the proposed water pollution treatment/control facility shall meet standards, limitations or requirements of this or any other agency of state or federal government, as this agency has no direct control over the actual construction and/or operation of the proposed project.

PART III

NOTICE OF RIGHT TO ADMINISTRATIVE REVIEW

Anyone wishing to challenge this construction permit must do so by filing a Petition for Administrative Review with the Office of Administrative Law Proceedings (OALP), and serving a copy of the petition upon IDEM. The requirements for filing a Petition for Administrative Review are found in IC 4-21.5-3-7, IC 13-15-6-1 and 41 IAC 2-2-1. A summary of the requirements of these laws is provided below.

A Petition for Administrative Review must be filed with the Office of Administrative Law Proceedings (OALP) within fifteen (15) days of the issuance of this notice (eighteen (18) days if notice was received by U.S. Mail), and a copy must be served upon IDEM. Addresses are:

Director
Office of Administrative Law Proceedings
Indiana Government Center North
Room 802
100 North Senate Avenue
Indianapolis, Indiana 46204

Commissioner
Indiana Department of Environmental
Management
Indiana Government Center North
Room 1301
100 North Senate Avenue
Indianapolis, Indiana 46204

The petition must contain the following information:

1. The name, address and telephone number of each petitioner.
2. A description of each petitioner's interest in the permit.
3. A statement of facts demonstrating that each petitioner is:
 - a. a person to whom the order is directed;
 - b. aggrieved or adversely affected by the permit; or
 - c. entitled to administrative review under any law.
4. The reasons for the request for administrative review.
5. The particular legal issues proposed for review.
6. The alleged environmental concerns or technical deficiencies of the permit.
7. The permit terms and conditions that the petitioner believes would be appropriate and would comply with the law.
8. The identity of any persons represented by the petitioner.
9. The identity of the person against whom administrative review is sought.
10. A copy of the permit that is the basis of the petition.
11. A statement identifying petitioner's attorney or other representative, if any.

Failure to meet the requirements of the law with respect to a Petition for Administrative Review may result in a waiver of the Petitioner's right to seek administrative review of the permit. Examples are:

1. Failure to file a Petition by the applicable deadline;
2. Failure to serve a copy of the Petition upon IDEM when it is filed; or
3. Failure to include the information required by law.

If Petitioner seeks to have a permit stayed during the administrative review, he or she may need to file a Petition for a Stay of Effectiveness. The specific requirements for such a Petition can be found in 41 IAC 2-2-1 and 41 IAC 2-2-3.

Pursuant to IC 4-21.5-3-17, OALP will provide all parties with notice of any pre-hearing conferences, preliminary hearings, hearings, stays, or orders disposing of the review of this action. Those who are entitled to notice under IC 4-21.5-3-5(b) and would like to obtain notices of any pre-hearing conferences, preliminary hearings, hearings, stays, or orders disposing of the review of this action without intervening in the proceeding must submit a written request to OALP at the address above.

More information on the review process is available at the website for the Office of Administrative Law Proceedings at <http://www.in.gov/oalp>.

Wastewater Treatment Facility
Design Summary

I. GENERAL

1. Applicant: Northwest Shelby County Regional Sewer District
2. Facility Name: NW Shelby County RSD Wastewater Treatment Plant (WWTP)
3. Project Type: New facility
4. Project Title: NW Shelby County RSD WWTP Phase 1
5. Project Location: 4800 W 600 N, Fairland, Indiana
6. Construction Permit Number: L-0824
7. Design Engineer: Mr. Drew Wilson, P.E.
8. Engineering Company: Egis BLN USA, Inc.
9. NPDES Permit Number: N/A (PEL issued on 3/23/2020)
10. Project Scope
 - A. Description of existing treatment facilities: Northwest Shelby County Regional Sewer District does not have an existing WWTP. Residential customers in the service area use onsite septic systems. Trinton School WWTP, which is located within NW Shelby County RSD service area operates a Class I, 0.039 MGD extended aeration type packaged WWTP (NPDES Permit No. IN0047490) which is not adequately sized to serve all residential customers in the service area.
 - B. Description of project needs: Residents of the service area have been dealing with issues with onsite septic systems. Several septic systems have failed or were never properly designed for relatively small lot sizes found throughout the service area.
 - C. Description of proposed facilities: The proposed project involves installation of gravity sewers throughout the Town of Fairland, Clover Village community, the Triton School system and surrounding area under a separate construction permit. There will be two main lift stations that will convey influent wastewater flow to the proposed 0.20 MGD WWTP located at the project location south of Triton Schools. The proposed WWTP will consist of influent flow metering, screening equipment, two Sequencing Batch Reactor (SBR) tanks, ultraviolet (UV) disinfection, plant drain/return stream pump station, effluent flow metering, cascade post aeration, effluent pipe to Snail Creek, aerobic sludge digestion/sludge holding tank, control/electrical/chemical building, site piping, site work, electrical work (including 300 kW standby generator), control work, and other work associated with the proposed project.
 - D. Is project part of an Agreed Order?: No
 - E. How facility will maintain treatment during construction: N/A

11. Source of Funding: IFA's Wastewater State Revolving Fund Loan Program
12. Estimated Total Project Cost: \$21,700,000 (WWTP and collection system)

II. DESIGN DATA

1. Design Average Flow (MGD): 0.2 MGD
 - A. Domestic: 0.145 MGD
 - B. Industrial/Commercial: 0.04 MGD
 - C. Infiltration/Inflow: 0.015 MGD
2. Design Peak Hourly Flow (MGD): 0.4 MGD
3. Maximum Flow Capability (MGD): 0.4 MGD
4. Design Waste Strength
 - A. CBOD: 250 mg/l (417 lbs/day)
 - B. TSS: 250 mg/l (417 lbs/day)
 - C. NH₃-N: 20 mg/l (33.4 lbs/day)
 - D. P: 7.0 mg/l (11.7 lbs/day)
5. Design Population Equivalent (PE): 2,453 (based on 0.17 lb CBOD/PE)
6. NPDES Permit Limitation on Effluent Quality (PEL issued on 3/23/2020)
 - A. CBOD₅: 10.0 mg/L summer and winter (monthly average)
 - B. TSS: 12.0 mg/L summer and winter (monthly average)
 - C. NH₃-N: 0.47 mg/L summer and 0.96 mg/L winter (monthly average)
 - D. pH: 6.0 s.u. (daily min) and 9.0 s.u. (daily max)
 - E. DO: 6.0 mg/L summer and winter (daily min)
 - F. *E. coli*: 125 count/100 mL (monthly average), 235 count/100 mL (daily max)
7. Sampling Method (Grab or Automatic Sampler) and Location
 - A. Influent: Automatic Sampler to be located on the west side of SBR influent line just north of SBR No. 1
 - B. Effluent: Automatic Sampler to be located between Effluent Meter Pit and Cascade Aeration Structure
8. Receiving Stream
 - A. Name: Snail Creek
 - B. Stream Uses: Full body contact recreational use and shall be capable of supporting a well-balanced warm water aquatic community
 - C. 7-day, 1-in-10 year low flow: 0.5 CFS (0.32 MGD)

III. PLANT DETAILS

1. Laboratory type (e.g., on site, third-party testing): On site lab trailer
2. Plant site fence provided: Yes
3. Handrail/grating provided where necessary: Yes

4. Flood hazard elevation (ft) at 100 year flood: 774
5. Provisions for mechanical/electrical component protection at 100 year flood:
Elevated above FPG
6. Type and rating (kW) of standby power equipment: 300 kW standby diesel generator
7. Provisions for removing heavy equipment: Cranes/lifting access through hatches
8. Septage/leachate receiving facilities: N/A

IV. TREATMENT UNITS

Influent Flow Meter (Proposed)

1. Type and size (in): 8" magmeter
2. Location description: Upstream of influent screens, north side of WWTP
3. Indicating, recording and totalizing: Yes

Screening (Proposed)

1. Type of screening: Spiral screens with screenings washer/compactor
2. Location description: Downstream of influent flow meter pit, upstream of SBRs
3. Bypass bar screen provision: Yes (in Bypass Box)
4. Number and rated capacity (gpd): Two @ 0.3 MGD (Maximum 0.432 MGD each)
5. Clear opening sizes, bar or perforations (in): 6 mm perforations
6. Slope of unit (°): 35°
7. Method of unit cleaning: Brushes on rotary drum
8. Method of screening disposal: Washer/compactor and bag system
9. Additional information: 1/4" manual bar screen @ 60° slope in Bypass Box

Sequential Batch Reactor (Proposed)

1. Type of SBR process: Fill and draw (batch process) Aqua aerobics
2. Number and dimensions (ft) of unit: Two, 38' x 30' x 20'
3. Side water depth and freeboard (ft) and volume (gal) of unit
 - A. At low water level: 11.0' SWD and 9' FB; 0.093 MG each basin
 - B. At avg water level: 13.3' SWD and 6.7' FB; 0.113 MG each basin (AWL is established based on DAF (No. of basins x No. of cycles)
 - C. At high water level: 18.0, 2' FB and 0.153 MG each basin (MWL is established based on DPHF/(No. of basins x No. of cycles)
4. Cycle Time (min) 288 min or 4.8 hr cycle
 - A. Fill: 144 min
 - B. React (Aeration): 124 min (179 min mixing time)
 - C. Settle: 45 min
 - D. Decant and idle: 64 min (10.31 min sludge wasting @ 40 gpm each cycle)
5. Hydraulic detention time (hrs)
 - A. At low water level: 22.3 hrs @ 0.2 MGD
 - B. At avg water level: 27.2 hrs @ 0.2 MGD
 - C. At high water level: 12.3 hrs @ 0.6 MGD

6. Organic loading (lb CBOD/1000 ft³)
 - A. At low water level: 16.77
 - B. At avg water level: 13.8
 - C. At high water level: 10.2
7. Peak decant rate (gpm): 938 gpm average
8. Design MLSS concentration (mg/L): 4,500 @ LWL
9. Design solids retention time (days): 19.3 days
10. Design F/M ratio (lb CBOD/day/lb MLSS): 0.059
11. Type and efficiency of diffusers (% per ft submergence): Fine bubble diffusers (retrievable air diffuser assemblies) and 1.5%/ft efficiency
12. Provisions for retrievable diffusers (when applicable): Retrievable
13. Number and rating of mixers (HP): One, 5 HP mixer
14. Oxygen requirement (lb O₂/day)
 - A. CBOD removal: 625.5
 - B. NH₃-N removal: 306.8
15. Total air demand (cfm): 365 SCFM/SBR based on 70.7 lb o₂/hr/basin (SOR)/(60 min x 0.0175 x 0.015 x 12.3)
 Note – 0.0175 lb O₂/CF of air, 1.5% SOTE/ft diffuser submergence and 12.3 ft diffuser submergence
16. Dedicated or shared plant blowers: Shared with aerated sludge holding tank
17. Type and rated capacity of blowers (cfm): Two 365 SCFM each, one 137 SCFM
18. Constant or variable speed blowers: Variable
19. Firm blower capacity (cfm): 502 SCFM (365 SCFM + 137 SCFM)
20. Type of ventilation in blower room: N/A
21. Method of sludge transfer between tanks: None
22. Post-equalization or disinfection at peak decanter rate: N/A (Downstream liquid train system to be sized @ SBR decant rate.)
23. Method of unit isolation: Isolation/plug valves
24. Method of flow split control: Plug Valves
25. Additional information: 40 gpm @ 20' TDH sludge pump in each SBR tank

Ultraviolet Disinfection (Proposed, 940 gpm unit [sized based on SBR decant rate])

1. Open channel or closed-vessel: Open channel
2. Vertical, horizontal, or diagonal lamp orientation: Horizontal
3. Lamp type: Low pressure high intensity
4. Number of banks: 1
5. Number of modules per bank: 3
6. Number of lamps per module: 8
7. Dosage (μWs/cm²): 40 mJ/cm²
8. Transmittance (%): 65%
9. Provisions for intensity monitoring: Yes
10. Type of level control provisions: Serpentine weir
11. Type of bypass provisions: Bypass pipe
12. Type of safety equipment: Unspecified safety equipment
13. Automatic or manual cleaning equipment: Automatic

Plant Site Process Drain Pump Station (Proposed)

1. Location description: Downstream of process equipment, southeast side of WWTP
2. Type of pump: Submersible
3. Number of pumps: 2
4. Constant or variable speed: Variable
5. Design operating capacity (gpm) and TDH (ft): 200 gpm @ 21' TDH
6. Operating volume of the wet well (gal): Variable
7. Detention time in the wet well (min): Variable
8. Shutoff valve and check valve in the discharge line: Yes
9. Shutoff valve on suction line: N/A
10. Type of ventilation: Above ground gooseneck vent
11. Type of standby power: WWTP standby generator
12. Type of alarm: High water alarm
13. Type of bypass or overflow provisions: N/A

Effluent Flow Meter (Proposed)

1. Type and size (in): 8"
2. Location description: Downstream of UV disinfection structure and upstream of cascade aeration
3. Indicating, recording and totalizing: Yes

Cascade Post-Aeration (Proposed)

1. Number of steps: 8
2. Dimensions of steps (ft): 8' W x 2' L x 1' drop each
3. Total fall (ft): 8'

Aerobic Digester (Proposed)

1. Number and dimensions (ft) of unit: 38' x 30' x 20'
2. Side water depth and freeboard (ft) of unit: to 18' MWL (2' FB)
3. Volume (gal): 107,443 gal (@ 12.6') to 153,490 gal (@ 18')
4. Total design sludge loading (lbs/day): 344 lbs/day (4,125 gpd @ 1% sludge)
5. Volatile solids percentage (%): 73.4%
6. Design solids retention time (days): 74.4 days (assuming 50.5% VSS destruction and 2% sludge in digester)
7. Type and efficiency of diffusers (SOTE %): Coarse bubble diffusers
8. Dedicated or shared plant blowers: Shared with SBRs
9. Type and rated capacity of blowers (cfm): Two 365 SCFM each, one 137 SCFM
10. Decanting method: Decanter
11. Discharge location of supernatant: Plant Site Process Drain Pump Station
12. Additional information: One 7.5 HP mixer to mix sludge. One 40 gpm @ 30' TDH sludge pump.

Final Sludge Disposal (Proposed)

1. Ultimate disposal method of sludge: Pump and haul liquid sludge offsite
2. Expected solids content of sludge (by the principal method of disposal): 2%
3. Location of disposal site: Merrel Bros. Regional Biosolids Center
4. Ownership of the disposal site: Merrel Bros.
5. Availability of sludge transport equipment: Merrel Bros.

V. SEWER COLLECTION SYSTEM – To be constructed under separate permit