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City of Berne, Indiana

Great Lakes Basin Combined Sewer Overflow
Annual Public Notice
April 2025

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Great Lakes Basin Combined Sewer Overflow

Annual Public Notice

In accordance with 40 CFR 122.38, the City of Berne is required to comply with the Great Lakes Basin Combined Sewer Overflow (CSO) public notification provisions as authorized by Section 425 of the Consolidated Appropriations Act of 2016; Public Law 114-113; and FWPCA 33 U.S.C. 1251. Through close coordination with the Indiana Department of Environmental Management (IDEM) Office of Water Quality (OWQ), the City of Berne has completed the following milestones and activities to ensure compliance with this rule:

July 2018	Updated the City's current CSO Public Notification Plan per 40 CFR 122.38 (c);
August 3, 2018	Submitted the Updated CSO Public Notification Plan to IDEM OWQ for review;
August 24, 2018	Received IDEM OWQ Approval of Updated CSO Public Notification Plan;
November 7, 2018	Initiated implementation of the Updated CSO Public Notification Requirements that includes the following: • Initial Notice of CSO Discharges per 40 CFR 122.38(a)(3)(i) and (ii): • Supplemental Notice of CSO Discharges per 40 CFR 122.38(a)(3)(i) and (ii); and • Outreach to Local Health Department and Other Affected Public Entities per 40 CFR 122.38(a)(2)(ii).
April 25, 2019	Submitted to IDEM OWQ and posted online the Annual Great Lakes Basin Combined Sewer Overflow Public Notice
April 2020	Posted 2019 Annual Great Lakes Basin Combined Sewer Overflow Public Notice to City's website and notified IDEM OWQ
April 2021	Posted 2020 Annual Great Lakes Basin Combined Sewer Overflow Public Notice to City's website and notified IDEM OWQ
April 2022	Posted 2021 Annual Great Lakes Basin Combined Sewer Overflow Public Notice to City's website and notified IDEM OWQ
April 2023	Posted 2022 Annual Great Lakes Basin Combined Sewer Overflow Public Notice to City's website and notified IDEM OWQ
April 2024	Posted 2023 Annual Great Lakes Basin Combined Sewer Overflow Public Notice to City's website and notified IDEM OWQ

April 2025 Posted 2024 Annual Great Lakes Basin Combined Sewer Overflow Public Notice to City's website and notified IDEM OWQ

The information immediately above regarding the initial and supplemental CSO notifications is available for review on the following website:

https://www.cityofberne.com/sewage-department

The City of Berne is also required to prepare an Annual Notice per 40 CFR 122.38(b), which is the purpose of this document and the required contents are included herein.

A. *Description of locations of CSOs*

- **a.** Attachment A of the City of Berne's current National Pollutant Discharge Elimination System (NPDES) Permit No. IN0021369 information related to the location of the City's remaining CSO (046) and other related provisions. The NPDES Permit is included in **Appendix A**. The System Aerial Map is included in **Appendix B** to illustrate the location of CSOs and other relevant facilities.

B. *Receiving water*

- **a.** One (1) CSO outfall, 046, is maintained by the City of Berne and the outfall discharges to the Sprunger Ditch during certain rainfall and/or snow melt events. CSO 046 is monitored for frequency and volume of CSO in accordance with Attachment A of the City of Berne's current NPDES Permit No. IN0021369 utilizing the NPDES CSO Monthly Report of Operation From (State Form 50546 R3/7-13).

C. *Any treatment provided*

- **a.** There is no CSO treatment provided for CSO 046; however, the City of Berne currently operates a Class II, 1.08 MGD treatment facility with a partial-mix aerated lagoon, a secondary lagoon, four (4) submerged attached growth reactors, phosphorus removal via chemical addition, disc filters and ultraviolet light disinfection. This facility has a peak design flow of 1.92 MGD and treatment is maximized during wet weather as to minimize the discharge of untreated CSO from 046.

D. *Date, location and approximate duration, measured estimated volume, and cause for each wet weather event that occurred in the past year.*

- **a.** See attached 2024 CSO MRO (State Form 50546 R3/7-13) monthly reports in **Appendix C**.

E. *Date, location, duration, volume and cause of each dry weather CSO discharge in past calendar year.*

- **a.** No recorded dry weather CSO discharge events occurred within the past year.

F. *Summary of monitoring data to CSO discharges.*

a. See the attached 2024 CSO MRO (State Form 50546 R3/7-13) monthly reports in **Appendix C**.

G. *Description of any public access areas potentially impacted by CSOs*.

a. There is no public access to the Sprunger Ditch.

H. *Representative precipitation data in total inches (closest 0.1 inches) that resulted in a CSO discharge*

a. Precipitation information is included in the attached 2024 CSO MRO (State Form 50546 R3/7-13) monthly reports in **Appendix C**.

I. *Permittee contact information, if not listed elsewhere on website*.

a. Mayor Gregg A. Sprunger

i. Phone: 260-589-8526

ii. Address: 158 W. Franklin Street, Berne, Indiana 46711

iii. Email: mayor@cityofberne.com

b. Wastewater Supervisor, Terry L. Kongar

i. Phone: 260-589-3425

ii. Address: 158 W. Franklin Street, Berne, Indiana 46711

iii. Email: sewage@cityofberne.com

J. *Concise summary of implementation of 9 minimum controls and LTCP implementation status*.

a. ***9 minimum controls***

i. ***Proper Operation and Maintenance Program***: There are seven (7) city employees that are cross-trained to share collection system and WWTP operations and maintenance. Several categories of maintenance are conducted for lift stations; sanitary, storm and combined sewer systems; and street sweeping. Collection system point repairs are made on an as needed basis.

ii. ***Maximization of Storage in the Collection System***: In order to maximize collection system storage to minimize the frequency and volume of CSO events, the City of Berne has raised CSO diversion structures to the extent possible. In addition, the fixed effluent weir at pond 1 of the WWTP has been raised to allow for an increase in operational depth to facilitate additional storage.

iii. ***Review of Pretreatment Ordinance***: Currently, there are no Categorical Industrial Users (CIUs) or Significant Industrial Users (SIUs) that discharge industrial wastewater to the City of Berne's collection system. The City's Wastewater Ordinances and Code

contains provisions that classify residential, commercial and industrial users so that any new industrial users can be identified and properly regulated by the City and IDEM OWQ.

iv. ***Operation to Maximize Treatment***: The City of Berne currently operates a Class II, 1.08 MGD treatment facility with a partial-mix aerated lagoon, a secondary lagoon, four (4) submerged attached growth reactors, phosphorus removal via chemical addition, disc filters and ultraviolet light disinfection. This facility has a peak design flow of 1.92 MGD and treatment is maximized during wet weather as to minimize the discharge of untreated CSO from 046.

v. ***Ensure the elimination of Dry Weather Flows***: The City believes implementing the operation and maintenance program outlined in Section J.a.i. is the most effective method to reduce the risk of dry weather overflows. Additionally, the City's lift stations and CSO structures are equipped with a Supervisory control and data acquisition (SCADA) system so that staff are made aware when operating levels are at a point in which a dry or wet weather CSO may occur. And finally, several provisions in the City's Sewer Use Ordinance (SUO) in order to protect against discharges that may have the potential to cause a dry weather overflow due to exceeding the capacity of the collection system and/or sewer clogging.

vi. ***Control of Solids and Floatables***: The City routinely inspects and cleans the sewers with a vac truck to reduce the build-up of solids and floatables. The City also owns a street sweeper that is operational during the summer months to prevent solids and floatables from entering the sewer system. Additionally, there is a screen on CSO 046 that helps prevent solids and floatables from entering the receiving stream.

vii. ***Implementation of Pollution Prevention Measures***: The City of Berne and Adams County maintain several programs that raise awareness of pollution prevention activities. These programs include recycling, solid waste/trash pick-up, street cleaning, brush pickup, limbs and branches pickup, and leaf pickup. The City has also implemented a Wellhead Protection Plan (WHPP) to identify potential sources of contamination and reduce the risk of contamination to the City drinking water. While these programs are not directly related to CSO discharges, they do raise awareness of pollution prevention.

viii. ***Implementation of a Public Notification Process***: The City's Public Notification Plan was amended in July and August of 2018 in order to comply with the Great Lakes Basin CSO public notification provisions. The revised plan was submitted to IDEM OWQ for review on August 3, 2018 and approved on August 24, 2018. This Annual Public Notice also allows for compliance with the City's public notification requirements. Signage is maintained at the City's remaining CSO outfall. The City updates the public regarding the LTCP progress and other matters related to CSOs on the City's website and through regularly scheduled public meetings**.**

ix. ***Monitor and Characterize CSO Impacts and Efficacy of Controls***: The remaining CSO 046 is equipped with a flow meter to record overflow duration and volume so that the City can monitor CSO impacts and the efficacy of CSO controls. Precipitation data is also collected so that conditions that trigger CSO events can be characterized. These efforts will be even more imperative for post construction monitoring purposes when Berne completes the implementation of the LTCP as described in the section below.

b. ***LTCP implementation status***

i. Construction of the WWTP expansion as described above was completed in 2014. The City of Berne submitted an LTCP Amendment to IDEM OWQ for review in August of 2017 and the LTCP Amendment was approved in November 2017. The Sewer Separation Preliminary Engineering Report (PER) was completed in 2018 and the final design was completed in 2019. Construction of the sewer separation project was initiated February 24, 2020 and substantial completion was on November 23, 2020. On January 14, 2021, the City of Berne submitted a notification letter to IDEM OWQ regarding the status of the sewer separation project.

ii. On April 19, 2024, the City of Berne submitted a CSO LTCP Update to IDEM OWQ regarding proposed changes to the CSO LTCP schedule and the selected alternative. The Update was accepted by IDEM OWQ on June 13, 2024.

iii. The CSO LTCP schedule was updated again in April 2025 to address unsolicited discharges that were identified from CSO 046. In coordination with IDEM, the City prepared and submitted a new schedule, and it was approved on April 21, 2025. The schedule also updated the status of Phase IV, for which design is complete, and bidding and construction will be completed by June 2025. The proposed CSO LTCP schedule is included on the following page and the aforementioned CSO LTCP related documents are included in **Appendix D**.

Proposed CSO LTCP Implementation Schedule

Phase	Project	Task	Completion Date[1]
Completed Milestones			
Phase I	Parr Road/Welty/Compromise Washington Sanitary Interceptor		2005
	Parkway and Hendricks Street Storm Sewer Separation		2005
	Hendricks Street Sanitary Sewer Extension		2006
	South Trunk Line and Retention Basin		2007
	Post Construction Monitoring		2010
Phase II	Retention Pond Rehabilitation		2006
	Van Buren to Linn Grove to Bryan Street Storm Sewer Separation and U.S. 27		2007
	Sprunger Pond Rehab		2009
	Lehman Pond		2009
	Buckeye and Columbia Street Sanitary Rebuild		2011
	Franklin and Hendricks Street Storm Sewer and Franklin Street Sanitary Sewer to Alley west of Lehman and other small projects		2011
	WWTP Upgrades Projects		2014
	Van Buren and Lynn Grove Area Sanitary Sewer Rebuild		2017-2018
	Increase Pumping Capacity to WWTP		2011-2012
	Sherwane Addition Storm Sewer		2020-2021
	Storm Sewer North of Poplar Ave and west of U.S. 27		2020-2021
	Storm Sewer/Sanitary Sewer cross-connections south of Lehman Park		2021
	WWTP Disk Filter Replacement		2021
Phase III[2]	Water Street Separation Alley South of Main Street Sewer Separation WWTP – Mechanical Fine Screen Comminutor/Grinder Unit at Main Street Lift Station East Franklin Street Sewer Extensions	Prepare PER & Evaluate Funding Options	January 22, 2018
		Final Design	2019
		Construction	February 24, 2020 – November 23, 2020
Post Construction Monitoring & Hydraulic Model Update			2021-2022

Phase	Project	Task	Completion Date[1]
Future Milestones			
CSO LTCP Amendment			April 2024
Phase IV[3]	Storage and Pumping Project: • Increase Parr Road Lift Station pumping capacity from 2.016 MGD to 3.50 MGD • Replace existing 0.936 MGD Main Street Lift Station with a 2.50 MGD dry weather/5.00 MGD peak wet weather capacity lift station • Install 0.30 MG wet weather storage • Install new 15-inch force main to the WWTP Main Street Collection System Improvements: • W. Van Buren Street – sewer size increase from 8" to 12" diameter from west of S. Schug Street to S. Harrison Street • W. Van Buren Street – sewer size increase from 10" to 12" diameter from S. Harrison Street to Lehman Street • W. Van Buren Street – sewer size increase from 12" to 18" diameter from Lehman Street to Hendricks Street • Hendricks Street – sewer size increase from 12" to 18" diameter from W. Van Buren Street to W. Franklin Street • W. Franklin Street – sewer size increase from 12" to 24" diameter from Hendricks Street to S. Jefferson Street • S. Jefferson Street – sewer size increase from 15" to 24" diameter from W. Franklin Street to alley south of W Main Street CSO 046 Investigation & Sanitary Source Elimination: • Indiana/Columbia St. (west), Water St. (north), Jefferson St. (east) and Franklin St. (south)	Prepare PER & Evaluate Funding Options	2023 – March 2024
		Final Design, Permitting, & Bidding	April 2024 – ~~December 2024~~ May 2025
		Construction	June 2025 - 2026
		South Trunk Line Optical Brightener Testing (Location #1)	2025
		Optical Brightener Testing (Locations #2 & #3)	2026
		Post-Construction Monitoring (Level of Control)	2027

[1] Compliance milestones noted in the implementation schedule above shall be completed on or before December 31st of the corresponding year.

[2] The implemented Phase I of the August 2017 CSO LTCP Update has been renamed to Phase III to avoid confusion with previously implemented projects.

[3] Phase II of the approved August 2017 CSO LTCP Update has been replaced by Phase IV of the 2024 CSO LTCP Update in order to avoid confusion with previously implemented projects.

Appendix A

NPDES Permit No. IN0021369

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Bruno Pigott
Commissioner

August 26, 2021

VIA ELECTRONIC MAIL

The Honorable Gregg Sprunger, Mayor
City of Berne
158 West Franklin Street
Berne, IN 46711

Dear Mayor Sprunger:

Re: Final NPDES Permit No. IN0021369
City of Berne Wastewater Treatment Plant
Adams County

Your application for a National Pollutant Discharge Elimination System (NPDES) permit has been processed in accordance with Sections 402 and 405 of the Federal Water Pollution Control Act as amended, (33 U.S.C. 1251, et seq.), and IDEM's permitting authority under IC 13-15. The enclosed NPDES permit covers your discharges to the Wabash River. All discharges from this facility shall be consistent with the terms and conditions of this permit.

One condition of your permit requires monthly reporting of several effluent parameters. You are required to submit both federal discharge monitoring reports (DMRs) and state Monthly Reports of Operation (MROs) on a routine basis. The MRO form is available on the internet at the following web site: https://www.in.gov/idem/cleanwater/wastewater-compliance/wastewater-reporting-forms-notices-and-instructions/.

Once you are on this page, select the "IDEM Forms" page and locate the version of the MRO applicable to your plant under the "Wastewater Facilities" heading. We recommend selecting the "XLS" version as it will complete all of the calculations on the data entered.

All NPDES permit holders are required to submit their monitoring data to IDEM using NetDMR. Please contact Rose McDaniel at (317) 233-2653 or Helen Demmings at (317) 232-8815 if you would like more information on NetDMR. Information is also available on our website at https://www.in.gov/idem/cleanwater/resources/netdmr/.

Another condition which needs to be clearly understood concerns violation of the effluent limitations in the permit. Exceeding the limitations constitutes a violation of the permit and may bring criminal or civil penalties upon the permittee. (See Part II.A.1 and II.A.11 of this permit). It is very important that your office and treatment operator understand this part of the permit.

Please note that this permit issuance can be appealed. An appeal must be filed under procedures outlined in IC 13-15-6, IC 4-21.5, and the enclosed public notice. The

appeal must be initiated by filing a petition for administrative review with the Office of Environmental Adjudication (OEA) within fifteen (15) days of the emailing of an electronic copy of this letter or within eighteen (18) days of the mailing of this letter by filing at the following addresses:

Director
Office of Environmental Adjudication
Indiana Government Center North
Room N103
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

Please reference the "Post Public Notice Addendum," on the final page of the Fact Sheet for this Office's response to comments submitted during the public notice period.

The permit should be read and studied. It requires certain action at specific times by you, the discharger, or your authorized representative. One copy of this permit is also being sent to your operator to be kept at the treatment facility. You may wish to call this permit to the attention of your consulting engineer and/or attorney.

If you have any questions concerning your NPDES permit, please contact Leigh Voss at 317/232-8698 or lvoss@idem.in.gov. More information on the appeal review process is available at the website for the Office of Environmental Adjudication at http://www.in.gov/oea.

Sincerely,

Jerry Dittmer, Chief
Permits Branch
Office of Water Quality

Enclosures
cc: Terry Kongar, Certified Operator
Brady Dryer, Commonwealth Engineers, Inc.

STATE OF INDIANA

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq., the "Clean Water Act") or (CWA), and IDEMs authority under IC 13-5, the Indiana Department of Environmental Management (IDEM) is issuing this permit to the

CITY OF BERNE

hereinafter referred to as "the permittee." The permittee owns and/or operates the **City of Berne Wastewater Treatment Plant**, a major municipal wastewater treatment plant located at 343 East 550 South, Berne, Indiana. The permittee is hereby authorized to discharge from the outfalls identified in Part I of this permit to receiving waters named the Wabash River in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in the permit. The permittee is also authorized to discharge from combined sewer overflow outfalls listed in Attachment A of this permit, to receiving waters named Sprunger Ditch in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in this permit. This permit may be revoked for the nonpayment of applicable fees in accordance with IC 13-18-20.

Effective Date: January 1, 2022.

Expiration Date: December 31, 2026.

In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and application forms as are required by the Indiana Department of Environmental Management. The application shall be submitted to IDEM at least 180 days prior to the expiration date of this permit, unless a later date is allowed by the Commissioner in accordance with 327 IAC 5-3-2 and Part II.A.4 of this permit.

Issued on August 26, 2021, for the Indiana Department of Environmental Management.

Jerry Dittmer, Chief
Permits Branch
Office of Water Quality

TREATMENT FACILITY DESCRIPTION

The permittee currently operates a Class II, 1.08 MGD treatment facility consisting of a 16.42 acre partial-mix aerated lagoon, a 21.15 acre facultative lagoon, a fine screen, four (4) submerged attached growth reactors, phosphorus removal via chemical addition, disc filters, and ultraviolet light disinfection.

The collection system is comprised of combined sanitary and storm sewers with one (1) Combined Sewer Overflow (CSO) location. The CSO location has been identified and permitted with provisions in Attachment A of the permit.

The mass limits for $CBOD_5$, TSS and ammonia-nitrogen have been calculated utilizing the peak design flow of 1.92 MGD. This is to facilitate the maximization of flow through the treatment facility in accordance with this Office's CSO policy.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from the outfall listed below in accordance with the terms and conditions of this permit. The permittee shall take samples and measurements at a location representative of each discharge to determine whether the effluent limitations have been met. Refer to Part I.B of this permit for additional monitoring and reporting requirements.

1. Beginning on the effective date of this permit, the permittee is authorized to discharge from Outfall 001, which is located at Latitude: 40° 36' 55" N, Longitude: 84° 56' 25" W. The discharge is subject to the following requirements:

TABLE 1

	Quantity or Loading			Quality or Concentration			Monitoring Requirements	
Parameter	**Monthly Average**	**Weekly Average**	**Units**	**Monthly Average**	**Weekly Average**	**Units**	**Measurement Frequency**	**Sample Type**
Flow [1]	Report	----	MGD	----	----	----	5 X Weekly	24-Hr. Total
$CBOD_5$								
Summer [2]	320	481	lbs/day	20	30	mg/l	3 X Weekly	24-Hr. Comp.
Winter [3]	401	641	lbs/day	25	40	mg/l	3 X Weekly	24-Hr. Comp.
TSS								
Summer [2]	385	577	lbs/day	24	36	mg/l	3 X Weekly	24-Hr. Comp.
Winter [3]	481	721	lbs/day	30	45	mg/l	3 X Weekly	24-Hr. Comp.
Ammonia-nitrogen								
Summer [2]	24.0	36.9	lbs/day	1.5	2.3	mg/l	3 X Weekly	24-Hr. Comp.
Winter [3]	60.9	91.3	lbs/day	3.8	5.7	mg/l	3 X Weekly	24-Hr. Comp.
Phosphorus	Report	----	lbs/day	1.0	----	mg/l	3 X Weekly	24-Hr. Comp.
Nitrogen, Total (as N) [4]	Report	----	lbs/day	Report	----	mg/l	1 X Monthly	24-Hr. Comp.

TABLE 2

	Quality or Concentration				Monitoring Requirements	
Parameter	**Daily Minimum**	**Monthly Average**	**Daily Maximum**	**Units**	**Measurement Frequency**	**Sample Type**
pH [5]	6.0	----	9.0	s.u.	5 X Weekly	Grab
Dissolved Oxygen [6]						
Summer [2]	5.0	----	----	mg/l	5 X Weekly	3 Grabs/24-Hrs.
Winter [3]	4.0	----	----	mg/l	5 X Weekly	3 Grabs/24-Hrs.
E.coli [7]	----	125 [8]	235 [9]	cfu/100 ml	3 X Weekly	Grab

[1] Effluent flow measurement is required per 327 IAC 5-2-13. The flow meter(s) shall be calibrated at least once every twelve months.

[2] Summer limitations apply from May 1 through November 30 of each year.

[3] Winter limitations apply from December 1 through April 30 of each year.

[4] Total Nitrogen shall be determined by testing Total Kjeldahl Nitrogen (TKN) and Nitrate + Nitrite and reporting the sum of the TKN and Nitrate + Nitrite results (reported as N). Nitrate + Nitrite can be analyzed together or separately. Monitoring for Total Nitrogen is required in the effluent only.

The following EPA methods are recommended for use in the analysis of TKN and Nitrate + Nitrite. Alternative approved 40 CFR 136 methods may be utilized.

Parameter	Method
TKN	350.1, 351.1, 351.2
Nitrate	300.0, 300.1, 352.1
Nitrite	300.1, 353.2
Nitrate + Nitrite	300.0, 300.1, 353.2

[5] If the permittee collects more than one grab sample on a given day for pH, the values shall not be averaged for reporting daily maximums or daily minimums. The permittee must report the individual minimum and the individual maximum pH value of any sample during the month on the Monthly Report of Operation forms.

[6] The daily minimum concentration of dissolved oxygen in the effluent shall be reported as the arithmetic mean determined by summation of the three (3) daily grab sample results divided by the number of daily grab samples. These samples are to be collected over equal time intervals.

[7] The effluent shall be disinfected on a continuous basis such that violations of the applicable bacteriological limitations (*E. coli*) do not occur from April 1 through October 31, annually.

The *Escherichia coli* (*E. coli*) limitations apply from April 1 through October 31 annually.

[8] The monthly average *E. coli* value shall be calculated as a geometric mean. Per 327 IAC 5-10-6, the concentration of *E. coli* shall not exceed one hundred twenty-five (125) cfu or mpn per 100 milliliters as a geometric mean of the effluent samples taken in a calendar month. No samples may be excluded when calculating the monthly geometric mean.

[9] If less than ten samples are taken and analyzed for *E. coli* in a calendar month, no samples may exceed two hundred thirty-five (235) cfu or mpn as a daily maximum. However, when ten (10) or more samples are taken and analyzed for *E. coli* in a calendar month, not more than ten percent (10%) of those samples may exceed two hundred thirty-five (235) cfu or mpn as a daily maximum. When calculating ten percent, the result must not be rounded up. In reporting for compliance purposes on the Discharge Monitoring Report (DMR) form, the permittee shall record the highest non-excluded value for the daily maximum.

2. Minimum Narrative Limitations

At all times the discharge from any and all point sources specified within this permit shall not cause receiving waters:

a. including waters within the mixing zone, to contain substances, materials, floating debris, oil, scum attributable to municipal, industrial, agricultural, and other land use practices, or other discharges that do any of the following:

(1) will settle to form putrescent or otherwise objectionable deposits;

(2) are in amounts sufficient to be unsightly or deleterious;

(3) produce color, visible oil sheen, odor, or other conditions in such degree as to create a nuisance;

(4) are in amounts sufficient to be acutely toxic to, or to otherwise severely injure or kill aquatic life, other animals, plants, or humans;

(5) are in concentrations or combinations that will cause or contribute to the growth of aquatic plants or algae to such a degree as to create a nuisance, be unsightly, or otherwise impair the designated uses.

b. outside the mixing zone, to contain substances in concentrations that on the basis of available scientific data are believed to be sufficient to injure, be chronically toxic to, or be carcinogenic, mutagenic, or teratogenic to humans, animals, aquatic life, or plants.

B. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge flow and shall be taken at times which reflect the full range and concentration of effluent parameters normally expected to be present. Samples shall not be taken at times to avoid showing elevated levels of any parameters.

2. Data on Plant Operation

The raw influent and the wastewater from intermediate unit treatment processes, as well as the final effluent shall be sampled and analyzed for the pollutants and operational parameters specified by the applicable Monthly Report of Operation Form, as appropriate, in accordance with 327 IAC 5-2-13. Except where the permit specifically states otherwise, the sample frequency for the raw influent and intermediate unit treatment process shall be at a minimum the same frequency as that for the final effluent. The measurement frequencies specified in each of the tables in Part I.A. are the minimum frequencies required by this permit.

3. Reporting per Monitoring Period

The permittee shall submit accurate monitoring reports to the Indiana Department of Environmental Management containing results obtained during each monitoring period and shall be submitted no later than the 28th day of the month following each completed monitoring period. Each monitoring period report shall be submitted no less than annually and no more than monthly, as per parameter measurement frequency listed. These reports shall include, but not necessarily be limited to, the Discharge Monitoring Report (DMR) and the Monthly Report of Operation (MRO). Permittees with combined sewer overflow discharges must also submit the CSO Monthly Report of Operation to IDEM by the 28th day of the month following each completed monitoring period. All reports shall be submitted electronically by using the NetDMR application, upon registration, receipt of the NetDMR Subscriber Agreement, and IDEM approval of the proposed NetDMR Signatory. Access the NetDMR website (for initial

registration and DMR/MMR submittal) via CDX at: https://cdx.epa.gov/. The Regional Administrator may request the permittee to submit monitoring reports to the Environmental Protection Agency if it is deemed necessary to assure compliance with the permit.

A calendar week will begin on Sunday and end on Saturday. Partial weeks consisting of four or more days at the end of any month will include the remaining days of the week, which occur in the following month in order to calculate a consecutive seven-day average. This value will be reported as a weekly average or seven-day average on the MRO for the month containing the partial week of four or more days. Partial calendar weeks consisting of less than four days at the end of any month will be carried forward to the succeeding month and reported as a weekly average or a seven-day average for the calendar week that ends with the first Saturday of that month.

4. Definitions

a. Calculation of Averages

Pursuant to 327 IAC 5-2-11(a)(5), the calculation of the average of discharge data shall be determined as follows: For all parameters except fecal coliform and *E. coli*, calculations that require averaging of sample analyses or measurements of daily discharges shall use an arithmetic mean unless otherwise specified in this permit. For fecal coliform, the monthly average discharge and weekly average discharge, as concentrations, shall be calculated as a geometric mean. For *E. coli*, the monthly average discharge, as a concentration, shall be calculated as a geometric mean.

b. Terms

(1) “Monthly Average” -The monthly average discharge means the total mass or flow-weighted concentration of all daily discharges during a calendar month on which daily discharges are sampled or measured, divided by the number of daily discharges sampled and/or measured during such calendar month. The monthly average discharge limitation is the highest allowable average monthly discharge for any calendar month.

(2) “Weekly Average” - The weekly average discharge means the total mass or flow weighted concentration of all daily discharges during any calendar week for which daily discharges are sampled or measured, divided by the number of daily discharges sampled and/or measured during such calendar week. The average weekly discharge limitation is the maximum allowable average weekly discharge for any calendar week.

(3) “Daily Maximum” - The daily maximum discharge limitation is the maximum allowable daily discharge for any calendar day. The “daily discharge” means the total mass of a pollutant discharged during the calendar day or, in the case of a pollutant limited in terms other than mass pursuant to 327 IAC 5-2-11(e), the average concentration or other measurement of the pollutant specified over the calendar day or any twenty-four hour period that represents the calendar day for purposes of sampling.

(4) “24-hour Composite” - A 24-hour composite sample consists of at least three (3) individual flow-proportioned samples of wastewater, taken by the grab sample method over equal time intervals during the period of operator attendance or by an automatic sampler, and which are combined prior to analysis. A flow proportioned composite sample shall be obtained by:

(a) recording the discharge flow rate at the time each individual sample is taken,

(b) adding together the discharge flow rates recorded from each individual sampling time to formulate the “total flow value,”

(c) dividing the discharge flow rate of each individual sampling time by the total flow value to determine its percentage of the total flow value, and

(d) multiplying the volume of the total composite sample by each individual sample’s percentage to determine the volume of that individual sample which will be included in the total composite sample.

Alternatively, a 24-hour composite sample may be obtained by an automatic sampler on an equal time interval basis over a twenty-four hour period provided that a minimum of 24 samples are taken and combined prior to analysis. The samples do not need to be flow-proportioned if the permittee collects samples in this manner.

(5) $CBOD_5$: Five-day Carbonaceous Biochemical Oxygen Demand

(6) TSS: Total Suspended Solids

(7) *E. coli*: *Escherichia coli* bacteria

(8) The “Regional Administrator” is defined as the Region V Administrator, U.S. EPA, located at 77 West Jackson Boulevard, Chicago, Illinois 60604.

(9) The “Commissioner” is defined as the Commissioner of the Indiana Department of Environmental Management, located at the following address: 100 North Senate Avenue, Indianapolis, Indiana 46204-2251.

(10) Limit of Detection or LOD is defined as a measurement of the concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero (0) for a particular analytical method and sample matrix. The LOD is equivalent to the Method Detection Level or MDL.

(11) Limit of Quantitation or LOQ is defined as a measurement of the concentration of a contaminant obtained by using a specified laboratory procedure calibrated at a specified concentration above the method detection level. It is considered the lowest concentration at which a particular contaminant can be quantitatively measured using a specified laboratory procedure for monitoring of the contaminant. This term is also called the limit of quantification or quantification level.

(12) Method Detection Level or MDL is defined as the minimum concentration of an analyte (substance) that can be measured and reported with a ninety-nine percent (99%) confidence that the analyte concentration is greater than zero (0) as determined by the procedure set forth in 40 CFR Part 136, Appendix B. The method detection level or MDL is equivalent to the LOD.

5. Test Procedures

The analytical and sampling methods used shall conform to the version of 40 CFR 136 incorporated by reference in 327 IAC 5. Different but equivalent methods are allowable if they receive the prior written approval of the Commissioner and the U.S. Environmental Protection Agency. When more than one test procedure is approved for the purposes of the NPDES program under 40 CFR 136 for the analysis of a pollutant or pollutant parameter, the test procedure must be sufficiently sensitive as defined at 40 CFR 122.21(e)(3) and 122.44(i)(1)(iv).

6. Recording Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record and maintain records of all monitoring information on activities under this permit, including the following information:

a. The exact place, date, and time of sampling or measurements;

b. The person(s) who performed the sampling or measurements;

c. The dates and times the analyses were performed;

d. The person(s) who performed the analyses;

e. The analytical techniques or methods used; and

f. The results of all required analyses and measurements.

7. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Monthly Discharge Monitoring Report and on the Monthly Report of Operation form. Such increased frequency shall also be indicated on these forms. Any such additional monitoring data which indicates a violation of a permit limitation shall be followed up by the permittee, whenever feasible, with a monitoring sample obtained and analyzed pursuant to approved analytical methods. The results of the follow-up sample shall be reported to the Commissioner in the Monthly Discharge Monitoring Report.

8. Records Retention

All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed and calibration and maintenance of instrumentation and recording from continuous monitoring instrumentation, shall be retained for a minimum of three (3) years. In cases where the original records are kept at another location, a copy of all such records shall be kept at the permitted facility. The three-year period shall be extended:

a. automatically during the course of any unresolved litigation regarding the discharge of pollutants by the permittee or regarding promulgated effluent guidelines applicable to the permittee; or

b. as requested by the Regional Administrator or the Indiana Department of Environmental Management.

C. REOPENING CLAUSES

In addition to the reopening clause provisions cited at 327 IAC 5-2-16, the following reopening clauses are incorporated into this permit:

1. This permit may be modified or, alternately, revoked and reissued after public notice and opportunity for hearing to incorporate effluent limitations reflecting the results of a wasteload allocation if the Department of Environmental Management determines that such effluent limitations are needed to assure that State Water Quality Standards are met in the receiving stream.

2. This permit may be modified due to a change in sludge disposal standards pursuant to Section 405(d) of the Clean Water Act, if the standards when promulgated contain different conditions, are otherwise more stringent, or control pollutants not addressed by this permit.

3. This permit may be modified, or, alternately, revoked and reissued, to comply with any applicable effluent limitation or standard issued or approved under section 301(b)(2)(C), (D) and (E), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent limitation or standard so issued or approved:

   a. contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or

   c. controls any pollutant not limited in the permit.

4. This permit may be modified, or alternatively, revoked and reissued after public notice and opportunity for hearing to include Whole Effluent Toxicity (WET) limitations or to include limitations for specific toxicants if the results of the biomonitoring or the Toxicity Reduction Evaluation (TRE) study indicate that such limitations are necessary.

D. WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

To adequately assess the effects of the effluent on aquatic life, the permittee is required by this section of the permit to conduct chronic Whole Effluent Toxicity (WET) testing. Part I.D.1. of this permit describes the testing procedures and Part I.D.2. describes the Toxicity Reduction Evaluation (TRE) which is only required if the effluent demonstrates toxicity in two (2) consecutive toxicity tests as described in Part I.D.1.f.

1. <u>Whole Effluent Toxicity (WET) Tests</u>

   The permittee must conduct the series of aquatic toxicity tests described below to monitor the acute and chronic toxicity of the effluent discharged from Outfall 001.

   If toxicity is demonstrated in two (2) consecutive toxicity tests as described in Part I.D.1.f., with any test species during the term of the permit, the permittee is required to conduct a TRE under Part I.D.2.

a. Toxicity Test Procedures and Data Analysis

(1) All test organisms, test procedures, and quality assurance criteria used must be in accordance with the Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms, Fourth Edition, Section 11, Fathead Minnow (*Pimephales promelas*) Larval Survival and Growth Test Method 1000.0, and Section 13, Daphnid (*Ceriodaphnia dubia*) Survival and Reproduction Test Method 1002.0, EPA 821-R-02-013, October 2002 (hereinafter "Chronic Toxicity Test Method"), or most recent update that conforms to the version of 40 CFR 136 incorporated by reference in 327 IAC 5. References to specific portions of the Chronic Toxicity Test Method contained in this Part I.E. are provided for informational purposes. If the Chronic Toxicity Test Method is updated, the corresponding provisions of that updated method would be applicable.

(2) Any circumstances not covered by the above methods, or that require deviation from the specified methods must first be approved by the IDEM Permits Branch.

(3) The determination of acute and chronic endpoints of toxicity (LC_{50}), NOEC, and IC_{25} values) must be made in accordance with the procedures in Section 9, "Chronic Toxicity Test Endpoints and Data Analysis" and the Data Analysis procedures as outlined in Section 11 for fathead minnow (Test Method 1000.0; see flowcharts in Figures 5, 6, and 9) and Section 13 for *Ceriodaphnia dubia* (Test Method 1002.0; see flowcharts in Figures 4 and 6) of the Chronic Toxicity Test Method. The IC_{25} value together with 95% confidence intervals calculated by the Linear Interpolation and Bootstrap Methods in Appendix M of the Chronic Toxicity Test Method must be determined in addition to the NOEC value.

b. Types of Whole Effluent Toxicity Tests

(1) The permittee must conduct a 3-brood (7-day) definitive static-renewal daphnid (*Ceriodaphnia dubia*) survival and reproduction toxicity test and a 7-day definitive static-renewal fathead minnow (*Pimephales promelas*) larval survival and growth toxicity test.

(2) All tests must be conducted using 24-hour composite samples of final effluent. Three effluent samples are to be collected on alternate days (e.g. collected on days one, three, and five). The first effluent sample will be used for test initiation and for test solution renewal on day 2. The second effluent sample will be used for test solution renewal on days

3 and 4. The third effluent sample will be used for test solution renewal on days 5, 6, and 7. If shipping problems are encountered with renewal samples after a test has been initiated, the most recently used sample may continue to be used for test renewal, if first approved by the IDEM Permits Branch, but for no longer than 72 hours after first use.

(3) The whole effluent dilution series for the definitive test must include a control and at least five effluent concentrations with a minimum dilution factor of 0.5. The effluent concentrations selected must include and, if practicable, bracket the effluent concentrations associated with the determinations of acute and chronic toxicity provided in Part I.D.1.f. Guidance on selecting effluent test concentrations is included in Section 8.10 of the Chronic Toxicity Test Method. The use of an alternate procedure for selecting test concentrations must first be approved by the IDEM Permits Branch.

(4) If, in any control, more than 10% of the test organisms die in the first 48 hours with a daphnid species or the first 96 hours with a fathead minnow, or more than 20% of the test organisms in 7 days, that test is considered invalid and the toxicity tests must be repeated. In addition, if in the *Ceriodaphnia dubia* survival and reproduction test, the average number of young produced per surviving female in the control group is less than 15, or if 60% of surviving control females have less than three broods; and in the fathead minnow (*Pimephales promelas*) survival and growth test, if the mean dry weight of surviving fish in the control group is less than 0.25 mg, that test is considered invalid and must also be repeated. All other test conditions and test acceptability criteria for the fathead minnow (*Pimephales promelas*) and *Ceriodaphnia dubia* chronic toxicity tests must be in accordance with the test requirements in Section 11 (Test Method 1000.0), Table 1 and Section 13 (Test Method 1002.0), Table 3, respectively, of the Chronic Toxicity Test Method.

c. Effluent Sample Collection and Chemical Analysis

(1) Whole effluent samples taken for the purposes of toxicity testing must be 24-hour composite samples collected at a point that is representative of the final effluent, but prior to discharge. Effluent sampling for the toxicity testing may be coordinated with other permit sampling requirements as appropriate to avoid duplication. First use of the whole effluent toxicity testing samples must not exceed 36 hours after termination of the 24-hour composite sample collection and must not be used for longer than 72 hours after first use.

(2) Chemical analysis must accompany each effluent sample taken for toxicity testing, including each sample taken for the repeat testing as outlined in Part I.D.1.f.3. The chemical analysis detailed in Part I.A.1. and Part I.A.3. must be conducted for the effluent sample in accordance with Part I.B.5. of this permit.

d. Toxicity Testing Frequency and duration

The toxicity tests specified in Part I.D.1.b. must be conducted and submitted with every permit renewal application, in accordance with 327 IAC 5-2-3(g).

If a TRE is initiated during the term of the permit, after receiving notification under Part I.D.1.e., the Compliance Data Section will suspend the toxicity testing requirements above for the term of the TRE compliance schedule described in Part I.D.2. After successful completion of the TRE, the toxicity tests specified in Part I.D.1.b must be conducted once **every six (6) months**, as calculated from the first day of the first month following successful completion of the post-TRE toxicity tests (see Part I.D.2.c(4.)) for the remainder of the permit term.

e. Reporting

(1) Notifications of the failure of two (2) consecutive toxicity tests and the intent to begin the implementation of a TRE under Part I.D.1.f.(4) must be submitted in writing to the Compliance Data Section of IDEM's Office of Water Quality.

(2) Results of all toxicity tests, including invalid tests, must be reported to IDEM according to the general format and content recommended in the Chronic Toxicity Test Method, Section 10, "Report Preparation and Test Review". However, only the results of valid toxicity tests are to be reported on the discharge monitoring report (DMR). The results of the toxicity tests and laboratory report are due by the earlier of 60 days after completion of the test or the 28th day of the month following the end of the period established in Part I.D.1.d.

(3) The full WET test laboratory report must be submitted to IDEM electronically as an attachment to an e-mail to the Compliance Data Section at wwreports@idem.IN.gov. The results must also be submitted via NetDMR.

(4) For quality control and ongoing laboratory performance, the laboratory report must include results from appropriate standard reference toxicant tests. This will consist of acute (LC_{50} values), if applicable and chronic (NOEC, LOEC, and IC_{25} values) endpoints of toxicity obtained from reference toxicant tests conducted within 30 days of the most current effluent toxicity tests and from similarly obtained historical reference toxicant data with mean values and appropriate ranges for each species tested for at least three months to one year. Toxicity test reports must also include copies of chain-of-custody records and laboratory raw data sheets.

(5) Statistical procedures used to analyze and interpret toxicity data (e.g. Fisher's Exact Test and Steel's Many-one Rank Test for 7-day survival of test organisms; tests of normality (e.g., Shapiro Wilk's Test) and homogeneity of variance (e.g., Bartlett's Test); appropriate parametric (e.g. Dunnett's Test) and non-parametric (e.g. Steel's Many-one Rank Test) significance tests and point estimates (IC_{25}) of effluent toxicity, etc.; together with graphical presentation of survival, growth, and reproduction of test organisms), including critical values, levels of significance, and 95% confidence intervals, must be described and included as part of the toxicity test laboratory report.

(6) For valid toxicity tests, the WET test laboratory report must include a summary table of the results for each species tested, as shown in the table presented below. This table will provide toxicity test results, reported in acute toxic units (TU_a) and chronic toxic units (TU_c) for evaluation under Part I.D.1.f. and reporting on the DMR.

Test Organism [1]	Test Type	Endpoint [2]	Units	Result	Compliance Limit [6]	Pass/ Fail [7]	Reporting
Ceriodaphnia dubia	3-brood (7-day) Definitive Static-Renewal Survival and Reproduction	48-hr. LC_{50}	%	Report			Laboratory Report
			TU_a	Report			
		NOEC Survival	%	Report			
			TU_c	Report			
		NOEC Reproduction	%	Report			
			TU_c	Report			
		IC_{25} Reproduction	%	Report			
			TU_c	Report			
		Toxicity (acute) [3]	TU_a	Report [5]	1.0	Report	Laboratory Report **and NetDMR** (Parameter Code 61425)
		Toxicity (chronic) [4]	TU_c	Report [5]	**1.8**	Report	Laboratory Report **and NetDMR** (Parameter Code 61426)
Pimephales promelas	7-day Definitive Static-Renewal Larval Survival and Growth	96-hr. LC_{50}	%	Report			Laboratory Report
			TU_a	Report			
		NOEC Survival	%	Report			
			TU_c	Report			
		NOEC Growth	%	Report			
			TU_c	Report			
		IC_{25} Growth	%	Report			
			TU_c	Report			
		Toxicity (acute) [3]	TU_a	Report [5]	1.0	Report	Laboratory Report **and NetDMR** (Parameter Code 61427)
		Toxicity (chronic) [4]	TU_c	Report [5]	**1.8**	Report	Laboratory Report **and NetDMR** (Parameter Code 61428)

[1] For the WET test laboratory report, eliminate from the table any species that was not tested.

[2] A separate acute test is not required. The endpoint of acute toxicity must be extrapolated from the chronic toxicity test.

[3] The toxicity (acute) endpoint for *Ceriodaphnia dubia* is the 48-hr. LC_{50} results reported in acute toxic units (TU_a). The toxicity (acute) endpoint for *Pimephales promelas* is the 96-hr. LC_{50} result reported in acute toxic units (TU_a).

[4] The toxicity (chronic) endpoint for *Ceriodaphnia dubia* is the higher of the NOEC Survival, NOEC Reproduction, and IC_{25} Reproduction values reported in chronic toxic units (TU_c).

[5] Report the values for acute and chronic endpoints of toxicity determined in [3] and [4] for the corresponding species. These values are the ones that need to be reported on the DMR.

[6] These values do not represent effluent limitations, but rather exceedance of these values results in a demonstration of toxicity that triggers additional action and reporting by the permittee.

[7] If the toxicity result (in TU_s) is less than or equal to the compliance limit, report "Pass". If the toxicity result (in TU_s) exceeds the compliance limit, report "Fail".

f. Demonstration of Toxicity

(1) Toxicity (acute) will be demonstrated if the effluent is observed to have exceeded **1.0** TU_a (acute toxic units) for *Ceriodaphnia dubia* in 48 hours or in 96 hours for *Pimephales promelas*. For this purpose, a separate acute toxicity test is not required. The results for the acute toxicity demonstration must be extrapolated from the chronic toxicity test. For the purpose of selecting test concentrations under Part I.D.1.b.2., the effluent concentration associated with acute toxicity is 100%.

(2) Toxicity (chronic) will be demonstrated if the effluent is observed to have exceeded **1.8** $\mathbf{TU_c}$ (chronic toxic units) for *Ceriodaphnia* or *Pimephales promelas* from the chronic toxicity test. For the purpose of selecting test concentrations under Part I.D.1.b.2., the effluent concentration associated with chronic toxicity is 55.6%.

(3) If toxicity (acute) or toxicity (chronic) is demonstrated in any of the chronic toxicity tests specified above, a repeat chronic toxicity test using the procedures in Part I.D.1. of this permit and the same test species must be initiated within two (2) weeks of test failure. During the sampling for any

repeat tests, the permittee must also collect and preserve sufficient effluent samples for use in any Toxicity Identification Evaluation (TIE) and/or TRE, if necessary.

(4) If any two (2) consecutive chronic toxicity tests, including any and all repeat tests, demonstrate acute or chronic of toxicity, the permittee must notify the Compliance Data Section under Part I.D.1.e. within 30 days of the termination of the second test, and begin the implementation of TRE as described in Part I.D.2. After receiving notification from the permittee, The Compliance Data Section will suspend the whole effluent toxicity testing requirements in Part I.D.1. for the term of the TRE compliance schedule.

g. Definitions

(1) "Acute toxic unit" or "TU_a" is defined as $100/LC_{50}$ where the LC_{50} is expressed as a percent effluent in the test medium of an acute whole effluent toxicity (WET) test that is statistically or graphically estimated to be lethal to fifty percent (50%) of the test organism.

(2) "Chronic toxic unit" or "TU_c" is defined as 100/NOEC or $100/IC_{25}$, where the NOEC or IC_{25} are expressed as a percent effluent in the test medium.

(3) "Inhibition concentration 25" or "IC_{25}" means the toxicant (effluent) concentration that would cause a twenty-five percent (25%) reduction in a nonquantal biological measurement for the test population. For example, the IC_{25} is the concentration of toxicant (effluent) that would cause a twenty-five percent (25%) reduction in mean young per female or in growth for the test population.

(4) "No observed effect concentration" or "NOEC" is the highest concentration of toxicant (effluent) to which organisms are exposed in a full life cycle or partial life cycle (short term) test, that causes no observable adverse effects on the test organisms, that is, the highest concentration of toxicant (effluent) in which the values for the observed responses are not statistically significantly different from the controls.

2. <u>Toxicity Reduction Evaluation (TRE) Schedule of Compliance</u>

The development and implementation of a TRE is only required if toxicity is demonstrated in two (2) consecutive tests as described in Part I.D.1.f.(4). The

post-TRE toxicity testing requirements in Part I.D.2.c. must also be completed as part of the TRE compliance schedule.

Milestone Dates: See a. through e. below for more detail on the TRE milestone dates.

Requirement	**Deadline**
Development and Submittal of a TRE Plan	Within 90 days of the date of two (2) consecutive failed toxicity tests.
Initiate a TRE Study	Within 30 days of TRE Plan submittal
Submit TRE Progress Reports	Every 90 days beginning six (6) months from the date of two (2) consecutive failed toxicity tests.
Post-TRE Toxicity Testing Requirements	Immediately upon completion of the TRE, conduct three (3) consecutive months of toxicity tests with both test species; if no acute or chronic toxicity is shown with any test species, reduce toxicity tests to once **every six (6) months** for the remainder of the permit term. If post-TRE toxicity testing demonstrates toxicity, continue the TRE study.
Submit Final TRE Report	Within 90 days of successfully completing the TRE (including the post-TRE toxicity testing requirements), not to exceed three (3) years from the date that toxicity is initially demonstrated in (two (2) consecutive toxicity tests).

a. Development of TRE Plan

Within 90 days of the date of two (2) consecutive failed toxicity tests (i.e. the date of termination of the second test), the permittee must submit plans for an effluent TRE to the Compliance Data Section. The TRE plan must include appropriate measures to characterize the causative toxicants and reduce toxicity in the effluent discharge to levels that demonstrate no toxicity with any test species as described in Part I.D.1.f. Guidance on conducting effluent toxicity reduction evaluations is available from EPA and from the EPA publications listed below:

(1) Method for Aquatic Toxicity Identification Evaluations:

Phase I Toxicity Characterization Procedures, Second Edition (EPA/600/6-91/003), February 1991.

Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity (EPA/600/R-92/080), September 1993.

Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity (EPA/600/R-92/081), September 1993.

(2) Toxicity Identification Evaluation: Characterization of chronically Toxic Effluents, Phase I (EPA/600/6-91/005F), May 1992.

(3) Toxicity Reduction evaluation Guidance for Municipal Wastewater Treatment Plants (EPA/833B-99-002), August 1999.

(4) Clarifications Regarding Toxicity Reduction and Identification Evaluations in the National Pollutant Discharge Elimination System Program, U.S. EPA, March 27, 2001.

b. Conduct the TRE

Within 30 days after submittal of the TRE plan to the Compliance Data Section, the permittee must initiate the TRE consistent with the TRE plan.

c. Post-TRE Toxicity Testing Requirements

(1) After completing the TRE, the permittee must conduct monthly post-TRE toxicity tests with the two (2) test species *Ceriodaphnia dubia* and fathead minnow (*Pimephales promelas*) for a period of three (3) consecutive months.

(2) If the three (3) monthly tests demonstrate no toxicity with any test species as described in Part I.D.1.f., the TRE will be considered successful. Otherwise, the TRE study must be continued.

(3) The post-TRE toxicity tests must be conducted in accordance with the procedures in Part I.D.1. The results of these tests must be submitted as part of the final TRE Report required under Part I.D.2.d.

(4) After successful completion of the TRE, the permittee must resume the chronic toxicity tests required in Part I.D.1. The established starting date

for the frequency in Part I.D.1.d. is the first day of the first month following successful completion of the post-TRE toxicity tests.

d. Reporting

(1) Progress reports must be submitted every 90 days to the Compliance Data Section beginning six (6) months from the date of two (2) consecutive failed toxicity tests. Each TRE progress report must include a listing of proposed activities for the next quarter and a schedule to reduce toxicity in the effluent discharge to acceptable levels through control of the toxicant source or treatment of whole effluent.

(2) Within 90 days of successfully completing the TRE, including the three (3) consecutive monthly tests required as part of the post-TRE toxicity testing requirements under Part I.D.2.c., the permittee must submit to the Compliance Data Section a final TRE Report that includes a discussion of the TRE results, along with the starting date established under Part I.D.2.c.(4). for the continuation of the toxicity testing required in Part I.D.1.

e. Compliance Date

The permittee must complete items a., b., c., and d. from Part I.D.2. and reduce toxicity in the effluent discharge to acceptable levels as soon as possible, but no later than three (3) years from the date that toxicity is initially demonstrated in two (2) consecutive toxicity tests (i.e. the date of the termination of the second test) as described in Part I.D.1.f.4.

PART II

STANDARD CONDITIONS FOR NPDES PERMITS

A. GENERAL CONDITIONS

1. Duty to Comply

The permittee shall comply with all terms and conditions of this permit in accordance with 327 IAC 5-2-8(1) and all other requirements of 327 IAC 5-2-8. Any permit noncompliance constitutes a violation of the Clean Water Act and IC 13 and is grounds for enforcement action or permit termination, revocation and reissuance, modification, or denial of a permit renewal application.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

2. Duty to Mitigate

In accordance with 327 IAC 5-2-8(3), the permittee shall take all reasonable steps to minimize or correct any adverse impact to the environment resulting from noncompliance with this permit. During periods of noncompliance, the permittee shall conduct such accelerated or additional monitoring for the affected parameters, as appropriate or as requested by IDEM, to determine the nature and impact of the noncompliance.

3. Duty to Provide Information

The permittee shall submit any information that the permittee knows or has reason to believe would constitute cause for modification or revocation and reissuance of the permit at the earliest time such information becomes available, such as plans for physical alterations or additions to the facility that:

a. could significantly change the nature of, or increase the quantity of, pollutants discharged; or

b. the Commissioner may request to evaluate whether such cause exists.

In accordance with 327 IAC 5-1-3(a)(5), the permittee must also provide any information reasonably requested by the Commissioner.

4. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must obtain and submit a renewal of this permit in accordance with 327 IAC 5-3-2(a)(2). It is the permittee's responsibility to obtain and submit the application. In accordance with 327 IAC 5-2-3(c), the owner of the facility or operation from which a discharge of pollutants occurs is responsible for applying for and obtaining the NPDES permit, except where the facility or operation is operated by a person other than an employee of the owner in which case it is the operator's responsibility to apply for and obtain the permit. The application must be submitted at least 180 days before the expiration date of this permit. This deadline may be extended if:

a. permission is requested in writing before such deadline;

b. IDEM grants permission to submit the application after the deadline; and

c. the application is received no later than the permit expiration date.

As required under 327 IAC 5-2-3(g)(1) and (2), POTWs with design influent flows equal to or greater than one million (1,000,000) gallons per day and POTWs with an approved pretreatment program or that are required to develop a pretreatment program, will be required to provide the results of whole effluent toxicity testing as part of their NPDES renewal application.

5. Transfers

In accordance with 327 IAC 5-2-8(4)(D), this permit is nontransferable to any person except in accordance with 327 IAC 5-2-6(c). This permit may be transferred to another person by the permittee, without modification or revocation and reissuance being required under 327 IAC 5-2-16(c)(1) or 16(e)(4), if the following occurs:

a. the current permittee notified the Commissioner at least thirty (30) days in advance of the proposed transfer date.

b. a written agreement containing a specific date of transfer of permit responsibility and coverage between the current permittee and the transferee (including acknowledgment that the existing permittee is liable for violations up to that date, and the transferee is liable for violations from that date on) is submitted to the Commissioner.

c. the transferee certifies in writing to the Commissioner their intent to operate the facility without making such material and substantial alterations or additions to the facility as would significantly change the nature or quantities

of pollutants discharged and thus constitute cause for permit modification under 327 IAC 5-2-16(d). However, the Commissioner may allow a temporary transfer of the permit without permit modification for good cause, e.g., to enable the transferee to purge and empty the facility's treatment system prior to making alterations, despite the transferee's intent to make such material and substantial alterations or additions to the facility.

d. the Commissioner, within thirty (30) days, does not notify the current permittee and the transferee of the intent to modify, revoke and reissue, or terminate the permit and to require that a new application be filed rather than agreeing to the transfer of the permit.

The Commissioner may require modification or revocation and reissuance of the permit to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act or state law.

6. Permit Actions

In accordance with 327 IAC 5-2-16(b) and 327 IAC 5-2-8(4), this permit may be modified, revoked and reissued, or terminated for cause, including, but not limited to, the following:

a. Violation of any terms or conditions of this permit;

b. Failure of the permittee to disclose fully all relevant facts or misrepresentation of any relevant facts in the application, or during the permit issuance process; or

c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge controlled by the permittee (e.g., plant closure, termination of the discharge by connecting to a POTW, a change in state law or information indicating the discharge poses a substantial threat to human health or welfare).

Filing of either of the following items does not stay or suspend any permit condition: (1) a request by the permittee for a permit modification, revocation and reissuance, or termination, or (2) submittal of information specified in Part II.A.3 of the permit including planned changes or anticipated noncompliance.

The permittee shall submit any information that the permittee knows or has reason to believe would constitute cause for modification or revocation and reissuance of the permit at the earliest time such information becomes available, such as plans for physical alterations or additions to the permitted facility that:

1. could significantly change the nature of, or increase the quantity of, pollutants discharged; or

2. the commissioner may request to evaluate whether such cause exists.

7. Property Rights

Pursuant to 327 IAC 5-2-8(6) and 327 IAC 5-2-5(b), the issuance of this permit does not convey any property rights of any sort or any exclusive privileges, nor does it authorize any injury to persons or private property or an invasion of rights, any infringement of federal, state, or local laws or regulations. The issuance of the permit also does not preempt any duty to obtain any other state, or local assent required by law for the discharge or for the construction or operation of the facility from which a discharge is made.

8. Severability

In accordance with 327 IAC 1-1-3, the provisions of this permit are severable and, if any provision of this permit or the application of any provision of this permit to any person or circumstance is held invalid, the invalidity shall not affect any other provisions or applications of the permit which can be given effect without the invalid provision or application.

9. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under Section 311 of the Clean Water Act.

10. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by Section 510 of the Clean Water Act or state law.

11. Penalties for Violation of Permit Conditions

Pursuant to IC 13-30-4, a person who violates any provision of this permit, the water pollution control laws; environmental management laws; or a rule or standard adopted by the Environmental Rules Board is liable for a civil penalty not to exceed twenty-five thousand dollars ($25,000) per day of any violation.

Pursuant to IC 13-30-5, a person who obstructs, delays, resists, prevents, or interferes with (1) the department; or (2) the department’s personnel or

designated agent in the performance of an inspection or investigation performed under IC 13-14-2-2 commits a class C infraction.

Pursuant to IC 13-30-10-1.5(e), a person who willfully or negligently violates any NPDES permit condition or filing requirement, or any applicable standards or limitations of IC 13-18-3-2.4, IC 13-18-4-5, IC 13-18-12, IC 13-18-14, IC 13-18-15, or IC 13-18-16, commits a Class A misdemeanor.

Pursuant to IC 13-30-10-1.5(i), an offense under IC 13-30-10-1.5(e) is a Level 4 felony if the person knowingly commits the offense or knows that the commission of the offense places another person in imminent danger of death or serious bodily injury. An offense under IC 13-30-10-1.5(e) is a Level 3 felony if it results in serious bodily injury to any person, and a Level 2 felony if it results in death to any person.

Pursuant to IC 13-30-10-1.5(g), a person who willfully or recklessly violates any applicable standards or limitations of IC 13-18-8 commits a Class B misdemeanor.

Pursuant to IC 13-30-10-1.5(h), a person who willfully or recklessly violates any applicable standards or limitations of IC 13-18-9, IC 13-18-10, or IC 13-18-10.5 commits a Class C misdemeanor.

Pursuant to IC 13-30-10-1, a person who knowingly or intentionally makes any false material statement, representation, or certification in any NPDES form, notice, or report commits a Class B misdemeanor.

12. Penalties for Tampering or Falsification

In accordance with 327 IAC 5-2-8(10), the permittee shall comply with monitoring, recording, and reporting requirements of this permit. The Clean Water Act, as well as IC 13-30-10-1, provides that any person who knowingly or intentionally (a) destroys, alters, conceals, or falsely certifies a record, (b) tampers with, falsifies, or renders inaccurate or inoperative a recording or monitoring device or method, including the data gathered from the device or method, or (c) makes a false material statement or representation in any label, manifest, record, report, or other document; all required to be maintained under the terms of a permit issued by the department commits a Class B misdemeanor.

13. Toxic Pollutants

If any applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Clean Water Act for a toxic pollutant injurious to human health, and that standard or prohibition is more stringent than any

limitation for such pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition in accordance with 327 IAC 5-2-8(5). Effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants injurious to human health are effective and must be complied with, if applicable to the permittee, within the time provided in the implementing regulations, even absent permit modification.

14. Operator Certification

The permittee shall have the wastewater treatment facilities under the responsible charge of an operator certified by the Commissioner in a classification corresponding to the classification of the wastewater treatment plant as required by IC 13-18-11-11 and 327 IAC 5-22. In order to operate a wastewater treatment plant the operator shall have qualifications as established in 327 IAC 5-22-7. The permittee shall designate one (1) person as the certified operator with complete responsibility for the proper operations of the wastewater facility.

327 IAC 5-22-10.5(a) provides that a certified operator may be designated as being in responsible charge of more than one (1) wastewater treatment plant, if it can be shown that he will give adequate supervision to all units involved. Adequate supervision means that sufficient time is spent at the plant on a regular basis to assure that the certified operator is knowledgeable of the actual operations and that test reports and results are representative of the actual operations conditions. In accordance with 327 IAC 5-22-3(11), “responsible charge” means the person responsible for the overall daily operation, supervision, or management of a wastewater facility.

Pursuant to 327 IAC 5-22-10(4), the permittee shall notify IDEM when there is a change of the person serving as the certified operator in responsible charge of the wastewater treatment facility. The notification shall be made no later than thirty (30) days after a change in the operator.

15. Construction Permit

Except in accordance with 327 IAC 3, the permittee shall not construct, install, or modify any water pollution treatment/control facility as defined in 327 IAC 3-1-2(24). Upon completion of any construction, the permittee must notify the Compliance Data Section of the Office of Water Quality in writing.

16. Inspection and Entry

In accordance with 327 IAC 5-2-8(8), the permittee shall allow the Commissioner, or an authorized representative, (including an authorized contractor acting as a

representative of the Commissioner) upon the presentation of credentials and other documents as may be required by law, to:

a. Enter upon the permittee's premises where a point source, regulated facility, or activity is located or conducted, or where records must be kept pursuant to the conditions of this permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of this permit;

c. Inspect at reasonable times any facilities, equipment or methods (including monitoring and control equipment), practices, or operations regulated or required pursuant to this permit; and

d. Sample or monitor at reasonable times, any discharge of pollutants or internal wastestreams for the purposes of evaluating compliance with the permit or as otherwise authorized.

17. New or Increased Discharge of Pollutants

This permit prohibits the permittee from undertaking any action that would result in a new or increased discharge of a bioaccumulative chemical of concern (BCC) or a new or increased permit limit for a regulated pollutant that is not a BCC unless one of the following is completed prior to the commencement of the action:

a. Information is submitted to the Commissioner demonstrating that the proposed new or increased discharges will not cause a significant lowering of water quality as defined under 327 IAC 2-1.3-2(50). Upon review of this information, the Commissioner may request additional information or may determine that the proposed increase is a significant lowering of water quality and require the submittal of an antidegradation demonstration.

b. An antidegradation demonstration is submitted to and approved by the Commissioner in accordance with 327 IAC 2-1.3-5 and 327 IAC 2-1.3-6.

B. MANAGEMENT REQUIREMENTS

1. Facility Operations, Maintenance, and Quality Control

a. In accordance with 327 IAC 5-2-8(9), the permittee shall at all times maintain in good working order and efficiently operate all facilities and systems (and related appurtenances, i.e., equipment used for measuring and determining compliance) for collection and treatment that are:

(1) installed or used by the permittee; and

(2) necessary for achieving compliance with the terms and conditions of the permit.

Neither 327 IAC 5-2-8(9), nor this provision, shall be construed to require the operation of installed treatment facilities that are unnecessary for achieving compliance with the terms and conditions of the permit. This provision also does not prohibit taking redundant treatment units off line, provided that the permittee is at all times: maintaining in good working order and efficiently operating all facilities and systems; providing best quality effluent; and achieving compliance with the terms and conditions of the permit.

b. The permittee shall operate the permitted facility in a manner which will minimize upsets and discharges of excessive pollutants. The permittee shall properly remove and dispose of excessive solids and sludges.

c. The permittee shall provide an adequate operating staff which is duly qualified to carry out the operation, maintenance, and testing functions required to ensure compliance with the conditions of this permit.

d. Maintenance of all waste collection, control, treatment, and disposal facilities shall be conducted in a manner that complies with the bypass provisions set forth below.

e. Pursuant to 327 IAC 5-22-10(1), the permittee is responsible for providing adequate funding for and oversight of the wastewater treatment plant and collection system to ensure proper operation, maintenance, management, and supervision.

f. Any extensions to the sewer system must continue to be constructed on a separated basis. Plans and specifications, when required, for extension of the sanitary system must be submitted to the Facility Construction and Engineering Support Section, Office of Water Quality in accordance with 327 IAC 3-2-2. There shall also be an ongoing preventative maintenance program for the sanitary sewer system.

2. Bypass of Treatment Facilities

Pursuant to 327 IAC 5-2-8(12):

a. Terms as defined in 327 IAC 5-2-8(12)(A):

(1) “Bypass” means the intentional diversion of a waste stream from any portion of a treatment facility.

(2) “Severe property damage” means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b. Bypasses, as defined above, are prohibited, and the Commissioner may take enforcement action against a permittee for bypass, unless:

(1) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage, as defined above;

(2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance; and

(3) The permittee submitted notices as required under Part II.B.2.d; or

(4) The condition under Part II.B.2.f below is met.

c. Bypasses that result in death or acute injury or illness to animals or humans must be reported in accordance with the “Spill Response and Reporting Requirements” in 327 IAC 2-6.1, including calling 888/233-7745 as soon as possible, but within two (2) hours of discovery. However, under 327 IAC 2-6.1-3(1), when the constituents of the bypass are regulated by this permit, and death or acute injury or illness to animals or humans does not occur, the reporting requirements of 327 IAC 2-6.1 do not apply.

d. The permittee must provide the Commissioner with the following notice:

(1) If the permittee knows or should have known in advance of the need for a bypass (anticipated bypass), it shall submit prior written notice. If possible, such notice shall be provided at least ten (10) days before the date of the bypass for approval by the Commissioner.

(2) The permittee shall orally report an unanticipated bypass within 24 hours of becoming aware of the bypass event. The permittee must also provide a written report within five (5) days of the time the permittee becomes aware of the bypass event. The written report must contain a description

of the noncompliance (i.e. the bypass) and its cause; the period of noncompliance, including exact dates and times; if the cause of noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate and prevent recurrence of the bypass event. If a complete email submittal is sent within 24 hours of the time that the permittee became aware of the unanticipated bypass event, then that report will satisfy both the oral and written reporting requirement.

e. The Commissioner may approve an anticipated bypass, after considering its adverse effects, if the Commissioner determines that it will meet the conditions listed above in Part II.B.2.b. The Commissioner may impose any conditions determined to be necessary to minimize any adverse effects.

f. The permittee may allow any bypass to occur that does not cause a violation of the effluent limitations in the permit, but only if it also is for essential maintenance to ensure efficient operation. These bypasses are not subject to the provisions of Part II.B.2.b., d and e of this permit.

3. Upset Conditions

Pursuant to 327 IAC 5-2-8(13):

a. “Upset” means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

b. An upset shall constitute an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Paragraph c of this subsection, are met.

c. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, that:

(1) An upset occurred and the permittee has identified the specific cause(s) of the upset;

(2) The permitted facility was at the time being operated in compliance with proper operation and maintenance procedures;

(3) The permittee complied with any remedial measures required under "Duty to Mitigate", Part II.A.2; and

(4) The permittee submitted notice of the upset as required in the "Incident Reporting Requirements," Part II.C.3, or 327 IAC 2-6.1, whichever is applicable. However, under 327 IAC 2-6.1-3(1), when the constituents of the discharge are regulated by this permit, and death or acute injury or illness to animals or humans does not occur, the reporting requirements of 327 IAC 2-6.1 do not apply.

d. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof pursuant to 40 CFR 122.41(n)(4).

4. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed from or resulting from treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering waters of the State and to be in compliance with all Indiana statutes and regulations relative to liquid and/or solid waste disposal.

a. Collected screenings, slurries, sludges, and other such pollutants shall be disposed of in accordance with provisions set forth in 329 IAC 10, 327 IAC 6.1, or another method approved by the Commissioner.

b. The permittee shall comply with existing federal regulations governing solids disposal, and with applicable provisions of 40 CFR Part 503, the federal sludge disposal regulation standards.

c. The permittee shall notify the Commissioner prior to any changes in sludge use or disposal practices.

d. The permittee shall maintain records to demonstrate its compliance with the above disposal requirements.

5. Power Failures

In accordance with 327 IAC 5-2-10 and 327 IAC 5-2-8(14) in order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

a. provide an alternative power source sufficient to operate facilities utilized by the permittee to maintain compliance with the effluent limitations and conditions of this permit, or

b. shall halt, reduce or otherwise control all discharge in order to maintain compliance with the effluent limitations and conditions of this permit upon the reduction, loss, or failure of one or more of the primary sources of power to facilities utilized by the permittee to maintain compliance with the effluent limitations and conditions of this permit.

6. Unauthorized Discharge

Any overflow or release of sanitary wastewater from the wastewater treatment facilities or collection system that results in a discharge to waters of the state and is not specifically authorized by this permit is expressly prohibited. These discharges are subject to the reporting requirements in Part II.C.3 of this permit.

C. REPORTING REQUIREMENTS

1. Planned Changes in Facility or Discharge

Pursuant to 327 IAC 5-2-8(11)(F) and 5-2-16(d), the permittee shall give notice to the Commissioner as soon as possible of any planned alterations or additions to the facility (which includes any point source) that could significantly change the nature of, or increase the quantity of, pollutants discharged. Following such notice, the permit may be modified to revise existing pollutant limitations and/or to specify and limit any pollutants not previously limited. Material and substantial alterations or additions to the permittee's operation that were not covered in the permit (e.g., production changes, relocation or combination of discharge points, changes in the nature or mix of products produced) are also cause for modification of the permit. However those alterations which constitute total replacement of the process or the production equipment causing the discharge converts it into a new source, which requires the submittal of a new NPDES application.

2. Monitoring Reports

Pursuant to 327 IAC 5-2-8(10), 327 IAC 5-2-13, and 327 IAC 5-2-15, monitoring results shall be reported at the intervals and in the form specified in "Data On Plant Operation", Part I.B.2.

3. Incident Reporting Requirements

Pursuant to 327 IAC 5-2-8(11) and 327 IAC 5-1-3, the permittee shall orally report to the Commissioner information on the following incidents within 24 hours from the time permittee becomes aware of such occurrence. If the incident meets the emergency criteria of item b (Part II.C.3.b) or 327 IAC 2-6.1, then the report shall be made as soon as possible, but within two (2) hours of discovery.

However, under 327 IAC 2-6.1-3(1), when the constituents of the discharge are regulated by this permit, and death or acute injury or illness to animals or humans does not occur, the reporting requirements of 327 IAC 2-6.1 do not apply.

a. Any unanticipated bypass which exceeds any effluent limitation in the permit;

b. Any emergency incident which may pose a significant danger to human health or the environment. Reports under this item shall be made as soon as the permittee becomes aware of the incident by calling 317/233-7745 (888/233-7745 toll free in Indiana). This number should only be called when reporting these emergency events;

c. Any upset (as defined in Part II.B.3 above) that exceeds any technology-based effluent limitations in the permit;

d. Any release, including basement backups, from the sanitary sewer system (including satellite sewer systems operated or maintained by the permittee) not specifically authorized by this permit. Reporting of known releases from private laterals not caused by a problem in the sewer system owned or operated by the permittee is not required under Part II.C.3, however, documentation of such events must be maintained by the permittee and available for review by IDEM staff; or

e. Any discharge from any outfall from which discharge is explicitly prohibited by this permit as well as any discharge from any other outfall or point not listed in this permit.

The permittee can make the oral reports by calling 317/232-8670 during regular business hours and asking for the Compliance Data Section, or by calling (317/233-7745) (888/233-7745 toll free in Indiana) during non-business hours. A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the event and its cause; the period of occurrence, including exact dates and times, and, if the event has not concluded, the anticipated time it is expected to continue; and steps taken or planned to reduce, mitigate and eliminate the event and steps taken or planned to prevent its recurrence. The Commissioner may waive the written report on a case-by-case basis if the oral report has been received within 24 hours. Alternatively the permittee may submit a “Bypass Overflow/Incident Report” (State Form 48373) or a “Noncompliance Notification Report” (State Form 54215), whichever is appropriate, to IDEM at wwreports@idem.IN.gov. If a complete submittal is sent within 24 hours of the time that the permittee became aware of the occurrence, then that report will satisfy both the oral and written reporting requirements.

4. Other Noncompliance

Pursuant to 327 IAC 5-2-8(11)(D), the permittee shall report any instance of noncompliance not reported under the “Incident Reporting Requirements” in Part II.C.3 at the time the pertinent Discharge Monitoring Report is submitted. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and, if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate and prevent the noncompliance.

5. Other Information

Pursuant to 327 IAC 5-2-8(11)(E), where the permittee becomes aware that it failed to submit any relevant facts or submitted incorrect information in a permit application or in any report to the Commissioner, the permittee shall promptly submit such facts or corrected information to the Commissioner.

6. Signatory Requirements

Pursuant to 327 IAC 5-2-22 and 327 IAC 5 2 8(15):

a. All reports required by the permit and other information requested by the Commissioner shall be signed and certified by a person described below or by a duly authorized representative of that person:

(1) For a corporation: by a principal executive defined as a president, secretary, treasurer, any vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making functions for the corporation or the manager of one or more manufacturing, production, or operating facilities employing more than two hundred fifty (250) persons or having gross annual sales or expenditures exceeding twenty-five million dollars ($25,000,000) (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

(3) For a federal, state, or local governmental body or any agency or political subdivision thereof: by either a principal executive officer or ranking elected official.

b. A person is a duly authorized representative only if:

(1) The authorization is made in writing by a person described above.

(2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

(3) The authorization is submitted to the Commissioner.

c. Electronic Signatures. If documents described in this section are submitted electronically by or on behalf of the NPDES-regulated facility, any person providing the electronic signature for such documents shall meet all relevant requirements of this section, and shall ensure that all of the relevant requirements of 40 CFR part 3 (including, in all cases, subpart D to part 3) (Cross-Media Electronic Reporting) and 40 CFR part 127 (NPDES Electronic Reporting Requirements) are met for that submission.

d. Certification. Any person signing a document identified under paragraphs a and b of this section, shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

7. Availability of Reports

Except for data determined to be confidential under 327 IAC 12.1, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Indiana Department of Environmental Management and the Regional Administrator. As required by the Clean Water Act, permit applications, permits, and effluent data shall not be considered confidential.

8. Penalties for Falsification of Reports

IC 13-30 and 327 IAC 5-2-8(15) provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 180 days per violation, or by both.

9. Progress Reports

In accordance with 327 IAC 5-2-8(11)(A), reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than fourteen (14) days following each schedule date.

10. Advance Notice for Planned Changes

In accordance with 327 IAC 5-2-8(11)(B), the permittee shall give advance notice to IDEM of any planned changes in the permitted facility, any activity, or other circumstances that the permittee has reason to believe may result in noncompliance with permit requirements.

11. Additional Requirements for POTWs and/or Treatment Works Treating Domestic Sewage

a. All POTWs shall identify, in terms of character and volume of pollutants, any significant indirect discharges into the POTW which are subject to pretreatment standards under section 307(b) and 307 (c) of the CWA.

b. All POTWs must provide adequate notice to the Commissioner of the following:

(1) Any new introduction of pollutants into the POTW from an indirect discharger that would be subject to section 301 or 306 of the CWA if it were directly discharging those pollutants.

(2) Any substantial change in the volume or character of pollutants being introduced into that POTW by any source where such change would render the source subject to pretreatment standards under section 307(b) or 307(c) of the CWA or would result in a modified application of such standards.

As used in this clause, “adequate notice” includes information on the quality and quantity of effluent introduced into the POTW, and any anticipated

impact of the change on the quantity or quality of the effluent to be discharged from the POTW.

c. This permit incorporates any conditions imposed in grants made by the U.S. EPA and/or IDEM to a POTW pursuant to Sections 201 and 204 of the Clean Water Act, that are reasonably necessary for the achievement of effluent limitations required by Section 301 of the Clean Water Act.

d. This permit incorporates any requirements of Section 405 of the Clean Water Act governing the disposal of sewage sludge from POTWs or any other treatment works treating domestic sewage for any use for which rules have been established in accordance with any applicable rules.

e. POTWs must develop and submit to the Commissioner a POTW pretreatment program when required by 40 CFR 403 and 327 IAC 5-19-1, in order to assure compliance by industrial users of the POTW with applicable pretreatment standards established under Sections 307(b) and 307(c) of the Clean Water Act. The pretreatment program shall meet the criteria of 327 IAC 5-19-3 and, once approved, shall be incorporated into the POTW's NPDES permit.

12. Electronic Reporting

IDEM is currently developing the technology and infrastructure necessary to allow compliance with the EPA Phase 2 e-reporting requirements per 40 CFR 127.16 and to allow electronic reporting of applications, notices, plans, reports, and other information not covered by the federal e-reporting regulations.

IDEM will notify the permittee when IDEM's e-reporting system is ready for use for one or more applications, notices, plans, reports, or other information. This IDEM notice will identify the specific applications, notices, plans, reports, or other information that are to be submitted electronically and the permittee will be required to use the IDEM electronic reporting system to submit the identified application(s), notice(s), plan(s), report(s), or other information.

See Part I.B.3., Monthly Reporting, for the electronic reporting requirements for the monthly monitoring reports such as the Discharge Monitoring Report (DMR), Monthly Report of Operation (MRO) and Monthly Monitoring Report (MMR).

13. Trucked or Hauled Pollutants

The permittee shall prohibit the introduction of trucked or hauled pollutants into the treatment works, except under the following conditions:

a. The permittee has provided prior written permission to the person seeking to discharge the hauled or trucked pollutants into the treatment works;

b. The person seeking to discharge the hauled or trucked pollutants into the treatment works possesses a valid wastewater management permit and valid vehicle licenses, as required by IDEM;

c. The pollutants that are introduced are limited to domestic sanitary wastewaters;

(1) The introduction of trucked or hauled in industrial wastewaters into the treatment works is prohibited, unless the permittee receives approval per (2) below;

(2) The permittee must notify and receive approval of the department prior to the acceptance of the industrial wastewater in accordance with Part II.A.3, Part II.C.1 and Part II.C.10 of this permit;

d. The pollutants are introduced into the treatment works via a discharge point designated by the permittee.

14. Hauled Waste Requirements

In the event that the permittee allows the introduction of trucked or hauled pollutants under the conditions specified in item 13 above, the permittee shall:

a. Obtain and retain, for a minimum of forty-eight hours, samples that are representative of the hauled or trucked pollutants;

b. Analyze the samples obtained pursuant to item “a” above in the event that the permittee believes or has reason to believe that the hauled or trucked pollutants may be causing and/or contributing to pass-through and/or interference;

c. Maintain records, for each discharge of trucked or hauled pollutants into the treatment works, of the following:

(1) Name of the person discharging the trucked or hauled pollutants;

(2) Wastewater management permit number (if applicable) and vehicle license number and expiration date;

(3) Origination, volume, and nature of the trucked or hauled pollutants;

(4) Date and time of the discharge;

(5) Any sampling conducted; and

(6) Analytical Results, if any.

D. ADDRESSES

1. Municipal NPDES Permits Section

Indiana Department of Environmental Management
Office of Water Quality – Rm 1255
Municipal NPDES Permits Section
100 N. Senate Avenue
Indianapolis, Indiana 46204-2251

The following correspondence shall be sent to the Municipal NPDES Permits Section:

a. NPDES permit applications (new, renewal or modifications) with fee

b. Preliminary Effluent Limits request letters

c. Comment letters pertaining to draft NPDES permits

d. NPDES permit transfer of ownership requests

e. NPDES permit termination requests

f. Notifications of substantial changes to a treatment facility, including new industrial sources

g. Combined Sewer Overflow (CSO) Operational Plans

h. CSO Long Term Control Plans (LTCP)

i. Stream Reach Characterization and Evaluation Reports (SRCER)

j. Streamlined Mercury Variance Annual Reports

2. Facility Construction and Engineering Support Section

Indiana Department of Environmental Management
Office of Water Quality – Rm 1255
Facility Construction and Engineering Support Section
100 N. Senate Avenue
Indianapolis, Indiana 46204-2251

The following correspondence shall be sent to the Facility Construction and Engineering Support Section:

a. Construction permit applications with fee

3. Compliance Data Section

Indiana Department of Environmental Management
Office of Water Quality – Rm 1255
Compliance Data Section
100 N. Senate Avenue
Indianapolis, Indiana 46204-2251

The following correspondence shall be sent to the Compliance Data Section:

a. Discharge Monitoring Reports (DMRs)

b. Monthly Reports of Operation (MROs)

c. Monthly Monitoring Reports (MMRs)

d. CSO MROs

e. Gauging station and flow meter calibration documentation

f. Compliance schedule progress reports

g. Completion of Construction notifications

h. Whole Effluent Toxicity (WET) Testing reports

i. Notification of two (2) consecutive failed WETTs and the intent to begin implementation of a TRE

j. Notification of initiation of a TRE

k. TRE plans and progress reports

l. TRE final report

m. Bypass/Overflow Reports

n. Anticipated Bypass/Overflow Reports

4. Pretreatment Group

Indiana Department of Environmental Management
Office of Water Quality – Rm 1255
Compliance Data Section – Pretreatment Group
100 N. Senate Avenue
Indianapolis, Indiana 46204-2251

The following correspondence shall be sent to the Pretreatment Group:

a. Organic Pollutant Monitoring Reports

b. Significant Industrial User (SIU) Quarterly Noncompliance Reports

c. Pretreatment Program Annual Reports

d. Sewer Use Ordinances

e. Enforcement Response Plans (ERP)

f. Sludge analytical results

ATTACHMENT A

Precipitation Related Combined Sewer Overflow Discharge Authorization Requirements

I. Discharge Authorization

Combined Sewer Overflows are point sources subject to both technology-based and water quality-based requirements of the Clean Water Act and state law. The permittee is authorized to have wet weather discharges from outfall(s) listed below subject to the requirements and provisions of this permit, including Attachment A.

Outfall	Location	Receiving Water
046	North of East Waters Street 40° 39' 35" N 84° 56' 20" W	Sprunger Ditch

Monitoring for the purpose of reporting on the CSO Monthly Report of Operation (State Form 50546 (R4/9-15)) shall be conducted at a location representative of untreated CSO discharges. Monitoring from a CSO regulator structure contributing flow to the CSO outfall is acceptable provided flows at this location are representative and comprised of untreated CSO flows ultimately discharged through the CSO outfall. Monitoring at the CSO outfall is considered representative except in those instances where non-CSO flows (treated effluents, separate stormwater, etc.) are also discharged through a common outfall. All non-CSO flows shall be excluded from reporting on the CSO Monthly Report of Operation.

II. Minimum Narrative Limitations

A. At all times the discharge from any and all CSO outfalls herein shall not cause receiving waters:

1. including waters within the mixing zone, to contain substances, materials, floating debris, oil, scum attributable to municipal, industrial, agricultural, and other land use practices, or other discharges that do any of the following:

a. will settle to form putrescent or otherwise objectionable deposits;
b. are in amounts sufficient to be unsightly or deleterious;
c. produce color, visible oil sheen, odor, or other conditions in such a degree as to create a nuisance;
d. are in amounts sufficient to be acutely toxic to, or otherwise severely injure or kill aquatic life, other animals, plants, or humans;

e. are in concentrations or combinations that will cause or contribute to the growth of aquatic plants or algae to such a degree as to create a nuisance, be unsightly, or otherwise impair the designated uses.

2. outside the mixing zone, to contain substances in concentrations that on the basis of available scientific data are believed to be sufficient to injure, be chronically toxic to, or be carcinogenic, mutagenic, or teratogenic to humans, animals, aquatic life, or plants.

B. Dry weather CSO disharges discharges from any portion of the sewer collection system, except WWTP outfall No. 001, are prohibited. If such a prohibited discharge should occur, the permittee is required to report the discharge in accordance with the provisions in Part II.C.3 of this permit.

III. Monitoring and Reporting Requirements

The permittee shall complete and submit accurate monitoring reports to the Indiana Department of Environmental Management. The permittee shall submit data specified on the CSO Monthly Report of Operation (MRO) for untreated CSO events (State Form 50546 (R4/9-15)). The CSO MRO form includes the following reporting parameters:

- WWTP Influent Data: average daily flow, and peak hourly flow.
- Precipitation Data: time precipitation began, precipitation duration, totally daily precipitation, peak precipitation intensity, and rain gauge measurement interval.
- CSO Outfall Information: time discharge began, whether the outfall is metered or estimated, event duration, amount of CSO discharge.

The permittee is required to report all discharges from untreated CSO Outfalls identified in Part I of this Attachment A. CSO MROs shall contain results obtained during each month (a monitoring period) and shall be submitted no later than 28 days following each completed monitoring period. All NPDES permit holders are now required to submit their monitoring data to IDEM using NetDMR.

IV. CSO Operational Plan

A. The permittee shall comply with the following minimum technology-based controls, in accordance with EPA's National CSO Control Policy:

1. The permittee shall implement proper operation and regular maintenance programs for the sewer system and the CSOs. The purpose of the operation and maintenance programs is to reduce the magnitude, frequency and duration of CSOs. The programs shall consider regular sewer inspections; sewer, catch basin, and regulator cleaning; equipment and sewer collection system repair or replacement, where necessary; and disconnection of illegal connections.

2. The permittee shall implement procedures that will maximize the use of collection system for wastewater storage that can be accommodated by the storage capacity of the collection system in order to reduce the magnitude, frequency and duration of CSOs.
3. The permittee shall review and modify, as appropriate, its existing pretreatment program to minimize CSO impacts from non-domestic users. The permittee shall identify all industrial users that discharge to the collection system upstream of any CSO outfalls; this identification shall also include the pollutants in the industrial user's wastewater and the specific CSO outfall(s) that are likely to discharge the wastewater.
4. The permittee shall operate the POTW at the maximum treatable flow during all wet weather flow conditions to reduce the magnitude, frequency and duration of CSOs. The permittee shall deliver all flows to the treatment plant within the constraints of the treatment capacity of the POTW.
5. Dry weather overflows from CSO outfalls are prohibited. Each dry weather overflow must be reported to IDEM as soon as the permittee becomes aware of the overflow. When the permittee detects a dry weather overflow, it shall begin corrective action immediately. The permittee shall inspect the dry weather overflow each subsequent day until the overflow has been eliminated.
6. The permittee shall implement measures to control solid and floatable materials in CSO discharges.
7. The permittee shall implement a pollution prevention program focused on reducing the impact of CSOs on receiving waters.
8. The permittee shall implement a public notification process to inform the public, the local public health department, and other potentially affected entities of CSO discharges and their impacts. This notification must be done in accordance with 327 IAC 5-2.2 and 40 CFR 122.38.
9. The permittee shall monitor to effectively characterize CSO impacts and the efficacy of CSO controls.

B. The permittee's implementation of each of the minimum controls in Part IV.A of this Attachment A shall be documented in its approved CSO Operational Plan (CSOOP). The permittee shall update the CSOOP, as necessary, to reflect changes in its operation or maintenance practices; changes to measures taken to implement the above minimum requirements; and changes to the treatment plant or collection system, including changes in collection system flow characteristics, collection system or WWTP capacity or discharge characteristics (including volume, duration, frequency and pollutant concentration). All updates to the CSOOP must be submitted to IDEM, Office of Water Quality, Municipal NPDES Permits Section for approval.

The CSOOP update(s) shall include a summary of the proposed revisions to the CSOOP as well as a reference to the page(s) that have been modified. Any CSOOP updates shall not result in:

1. a lower amount of flow being sent to and through the plant for treatment, or
2. more discharges (measured either by volume, duration, frequency, or pollutant concentration) occurring from the CSO outfalls.

The permittee shall maintain a current CSO Operational Plan, including all approved updates, on file at the POTW.

V. Public Notification Requirements for CSO Discharges to the Great Lakes Basin

A. The permittee shall comply with 327 IAC 5-2.2, which incorporates by reference 40 CFR 122.38, for the public notification of CSO discharges to the Great Lakes Basin:

1. The permittee shall implement the public notification requirements in 40 CFR 122.38(a).
2. The permittee shall include the following information on each sign required by 40 CFR 122.38(a)(1):
    a. The name of the permittee;
    b. A description of the discharge and notice that sewage may be present in the water; and
    c. The permittee contact information (telephone number, NPDES permit number, and CSO discharge point number).
3. The permittee shall include signs at all CSO discharge points and potentially impacted public access areas in accordance with 40 CFR 122.38(a)(1)(i).
4. The permittee shall notify the public, local public health department, and other potentially affected entities as soon as possible, but no later than four (4) hours after becoming aware of a CSO discharge and must supplement the initial notice within seven (7) days after the CSO discharge has ended. The notifications must include the minimum information required by 40 CFR 122.38(a)(2) and (3).
5. The permittee shall monitor or estimate the volume and discharge duration of each CSO outfall listed in Attachment A to this permit.
6. The permittee shall submit an annual notice to U.S. EPA and IDEM by May 1 of each year in accordance with 40 CFR 122.38(b).
7. The permittee shall make the annual notice available to the public per 40 CFR 122.38(b).
8. The permittee shall submit its public notification plan and any updates or amendments to its public notification plan as part of all subsequent permit renewal applications as required by 327 IAC 5-2-3(q)(2).

VI. Sewer Use Ordinance Review/Revision and Enforcement

The permittee's Sewer Use Ordinance must contain provisions which: (1) prohibit introduction of inflow sources to any sanitary sewer; (2) prohibit construction of new combined sewers outside of the existing combined sewer service area; and (3) provide that for any new building the inflow/clear water connection to a combined sewer shall be made separate and distinct from sanitary waste connection to facilitate disconnection of the former if a separate storm sewer subsequently becomes available. The permittee shall continuously enforce these provisions.

VII. Reopening Clauses

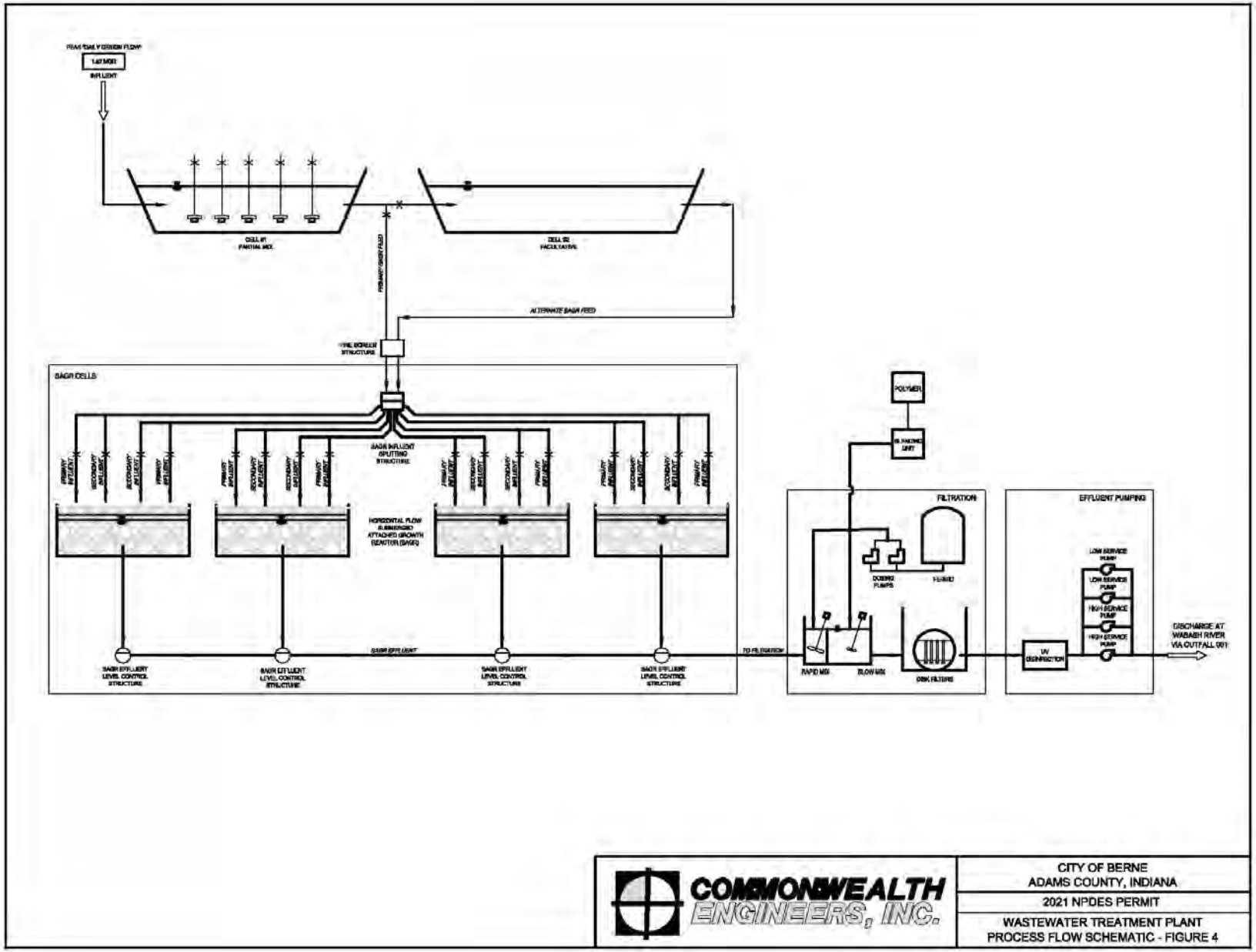
A. This permit may be reopened to address changes in the EPA National CSO Policy or state or federal law.
B. The permit may be reopened, after public notice and opportunity for hearing, to incorporate applicable provisions of IC 13-18.

National Pollutant Discharge Elimination System
Fact Sheet for the City of Berne Wastewater Treatment Plant

Draft: June 2021
Final: August 2021

Indiana Department of Environmental Management
100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

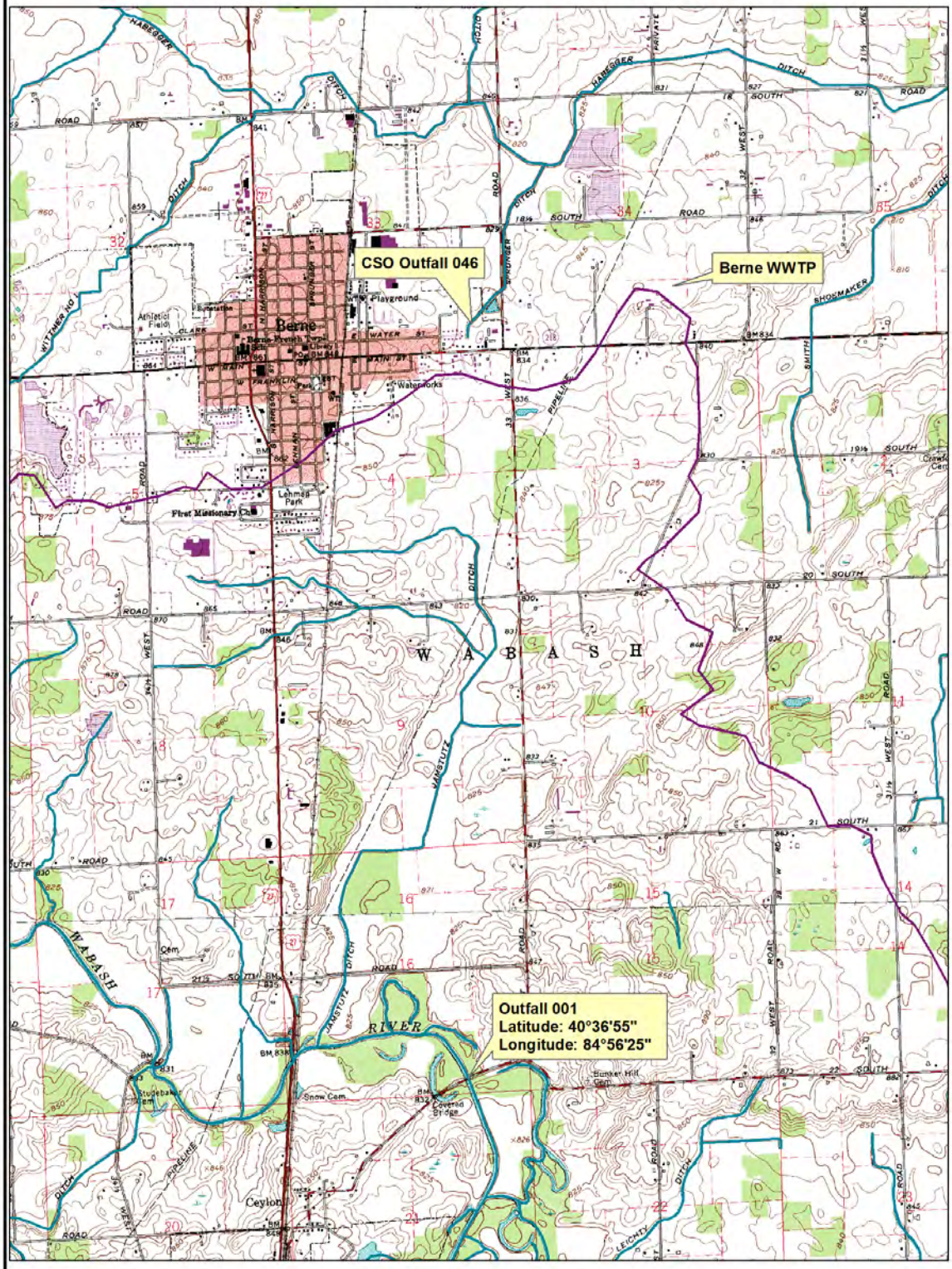
Permittee:	City of Berne The Honorable Gregg Sprunger, Mayor 158 West Franklin Street Berne, IN 46711 mayor@cityofberne.com; (260) 589-8526
Existing Permit Information:	Permit Number: IN0021369 Expiration Date: December 31, 2021
Facility Contact:	Terry L. Kongar, Certified Operator sewage@cityofberne.com; (260) 589-3425
Facility Location:	343 East 550 South Berne, IN 46711 Adams County
Receiving Stream:	Wabash River
GLI/Non-GLI:	Non-GLI
Proposed Permit Action:	Renewal
Date Application Received:	June 21, 2021
Facility Category	NPDES Major Municipal
Permit Writer:	Rene Lloyd rlloyd@idem.in.gov; (317) 233-1164



COMMONWEALTH ENGINEERS, INC.

CITY OF BERNE
ADAMS COUNTY, INDIANA
2021 NPDES PERMIT
WASTEWATER TREATMENT PLANT
PROCESS FLOW SCHEMATIC - FIGURE 4

BERNE WWTP OUTFALL LOCATION, ADAMS COUNTY



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

<bol>Mapped By: </bol>
Rene Lloyd, Office of Water Quality
<BOL>Date: June 28, 2021

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

N
W E
S

0 385 770 1,540 Meters
0 875 1,750 3,500 Feet

Legend

GLI Boundary
River

Imagery\Quad_24K
RGB
Red: Red
Green: Green
Blue: Blue

IDEM
EST. 1986

Outfall Location	Latitude:	40° 36' 55" N
	Longitude:	84° 56' 25" W

NPDES Permit No. IN0021369

Background

This is the proposed renewal of the NPDES permit for the City of Berne Wastewater Treatment Plant which was issued on December 16, 2016 and has an expiration date of December 31, 2021. The permittee submitted an application for renewal which was received on June 21, 2021. The permittee currently operates a Class II, 1.08 MGD treatment facility consisting of a 16.42 acre partial-mix aerated lagoon, a 21.15 acre secondary lagoon, four (4) submerged attached growth reactors, phosphorus removal via chemical addition, disc filters, and ultraviolet light disinfection. The facility description has been updated to reflect that there is no longer secondary clarification at the facility.

The collection system is comprised of combined sanitary and storm sewers with one (1) Combined Sewer Overflow (CSO) location. The CSO location has been identified and permitted with provisions in Attachment A of the permit.

A permit modification effective February 1, 2018 removed Whole Effluent Toxicity (WET) testing and pretreatment program requirements. The permit modification was processed because the facility no longer accepts industrial waste streams. This permit renewal includes WET requirement language because the permittee operates a major facility and WET testing is therefore required with each permit renewal.

The draft NPDES permit renewal for the City of Berne Wastewater Treatment Plant was made available for public comment from July 14, 2021 through August 13, 2021 as part of Public Notice No. 20210714. During this comment period, a comment letter dated July 21, 2021, from Anna Starks, Compliance Specialist at Commonwealth Engineers, Inc., was received. The comments submitted by Ms. Starks and this Office's corresponding responses are summarized on the final page of this Fact Sheet.

Collection System

The collection system is comprised of combined sanitary and storm sewers with one (1) Combined Sewer Overflow(s) location. The CSO location has been identified and permitted with provisions in Attachment A of the permit. The receiving stream of Sprunger Ditch is located within the Lake Erie drainage basin.

CSO Statutory or Regulatory Basis for Permit Provisions

CSOs are point sources subject to NPDES permit requirements, including both technology-based and water quality-based requirements of the CWA and state law. Thus the permit contains provisions IDEM deems necessary to meet water quality standards, as well as technology-based treatment requirements, operation and maintenance

requirements, and best management practices. This permit is based on various provisions of state and federal law, including (1) Title 13 of the Indiana Code; (2) the water quality standards set forth in 327 IAC 2-1.5; (3) the NPDES rules set forth in 327 IAC 2 and 327 IAC 5, including 327 IAC 5-2-8 and 327 IAC 5-2-10; and (4) section 402(q) of the CWA (33 USC § 1342), which requires all permits or orders issued for discharges from municipal CSOs to conform with the provisions of EPA's National CSO Control Policy (58 Fed. Reg. 18688, April 19, 1994). EPA's CSO Policy contains provisions that, among other things, require permittees to develop and implement minimum technological and operational controls and long term control plans to meet state water quality standards. The permit's penalty provisions are based in large part on IC 13-30. In addition to the regulatory provisions previously cited, the data collection and reporting requirements are based in part on 327 IAC 5-1-3, 327 IAC 5-2-13 and section 402(q) of the CWA. The long term control plan provisions were included to ensure compliance with water quality standards.

Explanation of Effluent Limitations and Conditions

The effluent limitations set forth in Part II of Attachment A are derived in part from the narrative water quality standards set forth in 327 IAC 2-1-5.8. The narrative standards are minimum standards that apply to all waters at all times, and therefore are applicable to all discharges of pollutants. Because EPA has not issued national effluent limitation guidelines for this category of discharges, the technology-based BAT/BCT provisions are based on best professional judgment (BPJ) in addition to section 402(q) of the CWA. (CSO discharges are not subject to the secondary treatment requirements applicable to publicly owned treatment works because overflow points have been determined to not be part of the treatment plant. Montgomery Environmental Coalition v. Costle, 646 F.2d 568 (D.C. Cir. 1980).)

CSO Long Term Control Plan Requirements

The City of Berne is currently implementing their approved CSO Long Term Control Plan (LTCP). The LTCP involves a two-phase approach. Phase I[a] consists of combined sewer separation work along California, Water and Brown Streets. Phase II[a] consists of the construction of 1.05 MG wet weather storage and 10 MG pumping facilities that will be designed equal to or greater than the level of control in IDEM NPD Water 016. Upon full implementation of the LTCP CSO 046 will remain open to provide hydraulic relief for the collection system for wet weather events that exceed the 10-year/1-hour design storm criteria.

The LTCP has an implementation schedule of 20 years and is expected to capture for full treatment all wet weather up to and including the 10-year/1-hour design storm. Full LTCP implementation is anticipated to be completed in 2026**.** The implementation schedule is enforced through Agreed Order Case No. 2004-14217-W.

Spill Reporting Requirements

Reporting requirements associated with the Spill Reporting, Containment, and Response requirements of 327 IAC 2-6.1 are included in Part II.B.2.c. and Part II.C.3. of the NPDES

permit. Spills from the permitted facility meeting the definition of a spill under 327 IAC 2-6.1-4(15), the applicability requirements of 327 IAC 2-6.1-1, and the Reportable Spills requirements of 327 IAC 2-6.1-5 (other than those meeting an exclusion under 327 IAC 2-6.1-3 or the criteria outlined below) are subject to the Reporting Responsibilities of 327 IAC 2-6.1-7.

It should be noted that the reporting requirements of 327 IAC 2-6.1 do not apply to those discharges or exceedences that are under the jurisdiction of an applicable permit when the substance in question is covered by the permit and death or acute injury or illness to animals or humans does not occur. In order for a discharge or exceedance to be under the jurisdiction of this NPDES permit, the substance in question (a) must have been discharged in the normal course of operation from an outfall listed in this permit, and (b) must have been discharged from an outfall for which the permittee has authorization to discharge that substance.

Solids Disposal

The permittee is required to dispose of its sludge in accordance with 329 IAC 10, 327 IAC 6.1, or 40 CFR Part 503.

Receiving Stream

The facility discharges to the Wabash River via Outfall 001. The receiving water has a seven day, ten year low flow ($Q_{7,10}$) of 5.1 cubic feet per second (3.3 MGD) at the outfall location. This provides a dilution ratio of receiving stream flow to treated effluent of 3:1.

The receiving stream is designated for full body contact recreational use and shall be capable of supporting a well-balanced warm water aquatic community in accordance with 327 IAC 2-1.

The Wabash River at the location of Outfall 001 is designated as Assessment Unit (AU) INB0161_01. This AU is within the Hydrologic Unit Code (HUC) 051201010601, also known as Jamstutz Ditch-Wabash River. The permittee has been incorporated into the Wabash River Watershed Nutrient and Pathogen Total Maximum Daily Load (TMDL) report. This TMDL was approved by EPA on September 22, 2006 and addresses impairments for *e. coli,* nutrients, and impaired biotic communities. This permit contains *E. coli* limitations that are protective of Indiana's water quality standards for *E. coli* during the recreational season and are therefore in accordance with the TMDL report. This permit contains an effluent limitation for phosphorus and monitoring requirements for total nitrogen.

Industrial Contributions

There is no industrial flow to the wastewater treatment plant. This NPDES permit does not authorize the facility to accept industrial contributions until the permittee has provided the Indiana Department of Environmental Management with a characterization of the waste,

including volume amounts, and this Office has determined whether effluent limitations are needed to ensure the State water quality standards are met in the receiving stream.

A permit modification effective February 1, 2018 reflected the termination of the Industrial Wastewater Pretreatment (IWP) permit for Indiana Coatings, Inc., which was previously discharging to the facility. Since there are no industrial contributions to the facility, the pretreatment program and annual Whole Effluent Toxicity (WET) testing requirements were removed from the permit with the February 1, 2018 modification. WET testing is still required at the time of each permit renewal due to the facility size.

Antidegradation

Indiana's Antidegradation Standards and Implementation procedures are outlined in 327 IAC 2-1.3. The antidegradation standards established by 327 IAC 2-1.3-3 apply to all surface waters of the state. The permittee is prohibited from undertaking any deliberate action that would result in a new or increased discharge of a bioaccumulative chemical of concern (BCC) or a new or increased permit limit for a regulated pollutant that is not a BCC unless information is submitted to the commissioner demonstrating that the proposed new or increased discharge will not cause a significant lowering of water quality, or an antidegradation demonstration submitted and approved in accordance 327 IAC 2-1.3-5 and 2-1.3-6.

The NPDES permit does not propose to establish a new or increased loading of a regulated pollutant; therefore, the Antidegradation Implementation Procedures in 327 IAC 2-1.3-5 and 2-1.3-6 do not apply to the permitted discharge.

Effluent Limitations and Rationale

The effluent limitations proposed herein are based on Indiana Water Quality Standards, NPDES regulations, and a Wasteload Allocation (WLA) analysis performed by this Office's Permits Branch staff on February 14, 2014. These limits are in accordance with antibacksliding regulations specified in 327 IAC 5-2-10(a)(11)(A). Monitoring frequencies are based upon facility size, type, average flows, and compliance history.

IDEM has waived the 85% removal requirement for $CBOD_5$ and TSS under the provisions of 40 CFR 133.103(a). The periodic improvements required under the permittee's LTCP would make the percent removal level a dynamic measurement and any limitation based on percent removal impractical.

The final effluent limitations to be limited and/or monitored include: Flow, Carbonaceous Biochemical Oxygen Demand ($CBOD_5$), Total Suspended Solids (TSS), Ammonia-nitrogen (NH_3-N), phosphorus, total nitrogen, pH, Dissolved Oxygen (DO), and *Escherichia coli* (*E. coli)*.

Final Effluent Limitations

The summer monitoring period runs from May 1 through November 30 of each year and the winter monitoring period runs from December 1 through April 30 of each year. The disinfection season runs from April 1 through October 31 of each year.

The mass limits for $CBOD_5$, TSS, and ammonia-nitrogen are calculated by multiplying the average design flow (in MGD) by the corresponding concentration value and by 8.345.

The mass limits for $CBOD_5$, TSS and ammonia-nitrogen have been calculated utilizing the peak design flow of 1.92 MGD. This is to facilitate the maximization of flow through the treatment facility in accordance with this Office's CSO policy.

Influent Monitoring

The raw influent and the wastewater from intermediate unit treatment processes, as well as the final effluent shall be sampled and analyzed for the pollutants and operational parameters specified by the applicable Monthly Report of Operation Form, as appropriate, in accordance with 327 IAC 5-2-13 and Part I.B.2 of the permit. Except where the permit specifically states otherwise, the sample frequency for the raw influent and intermediate unit treatment process shall be at a minimum the same frequency as that for the final effluent. The measurement frequencies specified in each of the tables in Part I.A. are the minimum frequencies required by the permit.

Flow

Flow is to be measured five (5) times weekly as a 24-hour total. Reporting of flow is required by 327 IAC 5-2-13.

$CBOD_5$

$CBOD_5$ is limited to 20 mg/l (320 lbs/day) as a monthly average and 30 mg/l (481 lbs/day) as a weekly average during the summer monitoring period. During the winter monitoring period, $CBOD_5$ is limited to 25 mg/l (401 lbs/day) as a monthly average and 40 mg/l (641 lbs/day) as a weekly average.

Monitoring is to be conducted three (3) times weekly by 24-hour composite sampling. The $CBOD_5$ concentration limitations included in this permit are set in accordance with the Wasteload Allocation (WLA) analysis performed by this Office's Permits Branch staff February 14, 2014 and are the same as the concentration limitations found in the facility's previous permit.

TSS

TSS is limited to 24 mg/l (385 lbs/day) as a monthly average and 36 mg/l (577 lbs/day) as a weekly average during the summer monitoring period. During the winter monitoring period, TSS is limited to 30 mg/l (481 lbs/day) as a monthly average and 45 mg/l (721 lbs/day) as a weekly average.

Monitoring is to be conducted three (3) times weekly by 24-hour composite sampling. The TSS concentration limitations included in this permit are set in accordance with the Wasteload Allocation (WLA) analysis performed by this Office's Permits Branch staff on February 14, 2014 and are the same as the concentration limitations found in the facility's previous permit.

Ammonia-nitrogen

Ammonia-nitrogen is limited to 1.5 mg/l (24.0 lbs/day) as a monthly average and 2.3 mg/l (36.9 lbs/day) as a weekly average during the summer monitoring period. During the winter monitoring period, ammonia-nitrogen is limited to 3.8 mg/l (60.9 lbs/day) as a monthly average and 5.7 mg/l (91.3 lbs/day) as a weekly average.

Monitoring is to be conducted three (3) times weekly by 24-hour composite sampling. The ammonia-nitrogen concentration limitations included in this permit are set in accordance with the Wasteload Allocation (WLA) analysis performed by this Office's Permits Branch staff on February 14, 2014 and are the same as the concentration limitations found in the facility's previous permit.

Phosphorus

Huntington Lake is located within 40 miles downstream of the treatment facility outfall. In accordance with 327 IAC 5-10-2(b), phosphorus removal facilities are required. As this facility continues to have the use of extended holding times the sliding removal scale found in 327 IAC 5-10-2 has not been included in the permit. Compliance with the phosphorus removal requirement in the permit is measured by a monthly average limit of 1.0 mg/l of phosphorus. Monitoring is to be conducted three (3) times weekly by 24-hour composite sampling. These phosphorus limitations are the same as the limitations found in the facility's previous permit.

Total Nitrogen

Nutrient pollution is one of our Nation's top environmental challenges and considerations for addressing it continue to be a priority for IDEM. Nutrient pollution can lead to public health issues and impacts the economy and is of particular concern with regard to harmful algal blooms in the State of Indiana and harmful algal blooms and hypoxia problems in further downstream waters. Of particular concern in further downstream waters is the loadings of the nutrient nitrogen.

In response to the nutrient pollution concerns, the U.S. EPA released a memorandum on September 22, 2016 entitled "Renewed Call to Action to Reduce Nutrient Pollution and Support Incremental Actions to Protect Water Quality and Public Health", which can be found at the following web address: https://www.epa.gov/sites/production/files/2016-09/documents/renewed-call-nutrient-memo-2016.pdf. EPA recommends all major sanitary dischargers begin monitoring for total nitrogen. To begin the process of total nitrogen data collection, IDEM is proposing that all major sanitary dischargers with average design flow ratings of 1.0 MGD or greater begin monitoring for total nitrogen.

The permit requires that total nitrogen be monitored and report at a minimum of one (1) time monthly. Both the concentration and associated loading values must be reported. Total nitrogen shall be determined by testing for Total Kjeldahl Nitrogen (TKN) and Nitrate

+ Nitrite Nitrogen and reporting the sum of the TKN and Nitrate + Nitrite results (reported as N). Nitrate + Nitrite can be analyzed together or separately.

pH

The pH limitations have been based on 40 CFR 133.102 which is cross-referenced in 327 IAC 5-5-3.

To ensure conditions necessary for the maintenance of a well-balanced aquatic community, the pH of the final effluent must be between 6.0 and 9.0 standard units in accordance with provisions in 327 IAC 2-1-6(b)(2).

pH must be measured five (5) times weekly by grab sampling. These pH limitations are the same as the limitations found in the facility's previous permit.

Dissolved Oxygen

Dissolved oxygen shall not fall below 5.0 mg/l as a daily minimum average during the summer monitoring period. During the winter monitoring period, dissolved oxygen shall not fall below 4.0 mg/l as a daily minimum average.

These dissolved oxygen limitations are based on the Wasteload Allocation (WLA) analysis performed by this Office's Permits Branch staff on February 14, 2014 and are the same as the concentration limitations found in the facility's previous permit. Dissolved oxygen measurements must be based on the average of three (3) grab samples taken within a 24-hr. period. This monitoring is to be conducted five (5) times weekly.

E. coli

The *E. coli* limitations and monitoring requirements apply from April 1 through October 31, annually. *E. coli* is limited to 125 count/100 ml as a monthly average, and 235 count/100 ml as a daily maximum. The monthly average *E. coli* value shall be calculated as a geometric mean. This monitoring is to be conducted three (3) times weekly by grab

sampling. These *E. coli* limitations are set in accordance with regulations specified in 327 IAC 5-10-6.

Mercury

A mercury monitoring requirement was established when the permittee expanded the design flow to 1.08 million gallons per day (MGD) and thus became a major wastewater treatment facility. Mercury data was evaluated as part of the NPDES permit renewal. The evaluation of the monitoring data revealed that the discharge from the wastewater treatment plant did not show potential to exceed the water quality criterion for mercury within the receiving waters. Therefore, mercury monitoring requirements have been removed from the NPDES permit renewal.

Whole Effluent Toxicity Testing

A permit modification effective February 1, 2018 removed Whole Effluent Toxicity (WET) testing and pretreatment program requirements. The permit modification was processed because the facility no longer accepts industrial waste streams. This permit renewal includes WET requirement language because the permittee operates a major facility and WET testing is therefore required with each permit renewal.

The permittee submitted a Whole Effluent Toxicity (WET) test with the renewal application as required in 327 IAC 5-2-3(g).

The permittee shall conduct the whole effluent toxicity tests described in Part I.D. of the permit to monitor the toxicity of the discharge from Outfall 001. This toxicity testing is to be performed at the time of permit renewal.

Acute toxicity will be demonstrated if the effluent is observed to have exceeded 1.0 TU_a(acute toxic units) based on 100% effluent for the test organism in 48 and 96 hours for *Ceriodaphnia dubia* or *Pimephales promelas*, which ever is more sensitive. Chronic toxicity will be demonstrated if the effluent is observed to have exceeded 1.8 TU_c (chronic toxic units) for *Ceriodaphnia dubia* or *Pimephales promelas*. If acute or chronic toxicity is found in any of the tests specified above, another toxicity test using the specified methodology and same test species shall be conducted within two weeks.

If any two tests indicate the presence of toxicity, the permittee must begin the implementation of a toxicity reduction evaluation (TRE) as is described in Part I.D.2. of the permit.

Backsliding

None of the concentration limits included in this permit conflict with antibacksliding regulations found in 327 IAC 5-2-10(a)(11)(A), therefore, backsliding is not an issue.

Reopening Clauses

Four (4) reopening clauses were incorporated into the permit in Part I.C. One clause is to incorporate effluent limits from any further wasteload allocations performed; a second clause is to allow for changes in the sludge disposal standards; a third clause is to incorporate any applicable effluent limitation or standard issued or approved under section 301(b)(2)(C), (D) and (E), 304(b)(2), and 307(a)(2) of the Clean Water Act; and a fourth clause is to include whole effluent toxicity limitations or to include limitations for specific toxicants.

Compliance Status

The permittee entered into an Agreed Order (Order No. 2004-14217-W) with this Office on May 18th, 2005. The Agreed Order cites the permittee for sewer overflows and contains an order for the permittee to submit a "Compliance Plan" with corrective actions to cease unpermitted sewer overflows. At the time of this permit renewal preparation, the Agreed Order remains in effect.

Expiration Date

A five-year NPDES permit is proposed.

POST PUBLIC NOTICE ADDENDUM: August 17, 2021

The draft NPDES permit renewal for the City of Berne Wastewater Treatment Plant was made available for public comment from July 14, 2021 through August 13, 2021 as part of Public Notice No. 20210714. During this comment period, a comment letter dated July 21, 2021, from Anna Starks, Compliance Specialist at Commonwealth Engineers, Inc., was received. The comments submitted by Ms. Starks and this Office's corresponding responses are summarized below: Any changes to the permit or Fact Sheet are so noted below.

Comment 1: **Part 1.D**

"With the 2018 modification, Part I. Section D was eliminated from the current permit. We see in the Draft Renewal Permit Part I. Section D has been reinstated. According to the 2018 Permit modification, this section was eliminated "because industrial wastewater sources no longer discharge to the City of Berne Wastewater Treatment Plant". Is it possible that Part I. Section D can be eliminated from the permit given WETT is only required every 5 years for the NPDES Permit renewal? Eliminating this section will make the Draft Renewal Permit comparable to the current permit/2018 modification to remove annual WETT requirements."

Response 1: It is this Office's current practice to include the WET language in the permit, even if testing is only required every five years with the permit renewal application.

Part 1.D.1.d of the draft permit renewal for Berne WWTP specifies that toxicity tests are required with every permit renewal.

The Fact Sheet explains the 2018 permit modification and the re-inclusion of the WET language under the "Background," "Industrial Contributions," and "Whole Effluent Toxicity Testing" sections.

In response to this comment, Part 1.D.1.d. has been changed to reference 327 IAC 5-2-3(g) instead of 327 IAC 5-2-3(h). No changes have been made to the Fact Sheet.

Rene Lloyd
August 17, 2021

STATE OF INDIANA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
PUBLIC NOTICE NO: 20210826 – IN0021369 – F
DATE OF NOTICE: AUGUST 26, 2021

The Office of Water Quality issues the following NPDES FINAL PERMIT:

MAJOR – RENEWAL

BERNE (city) WWTP, Permit No. IN0021369, ADAMS COUNTY, 343 East 550 South, Berne, IN. This municipal facility discharges 1.08 million gallons daily of treated sanitary & combined sewer wastewater into the Wabash River. Permit Manager: Leigh Voss, 317/232-8698, lvoss@idem.in.gov.

Notice of Right to Administrative Review [Permits]

If you wish to challenge this Permit, you must file a Petition for Administrative Review with the Office of Adjudication (OEA) and serve 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 315 IAC 1-3-2. A summary of the requirements of these laws is provided below.

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

Director
Office of Environmental Adjudication
Indiana Government Center North
100 North Senate Avenue - Room N103
Indianapolis, Indiana 46204

Commissioner
Indiana Department of Environmental Management
Indiana Government Center North
100 North Senate Avenue - Room 1301
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.
    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.

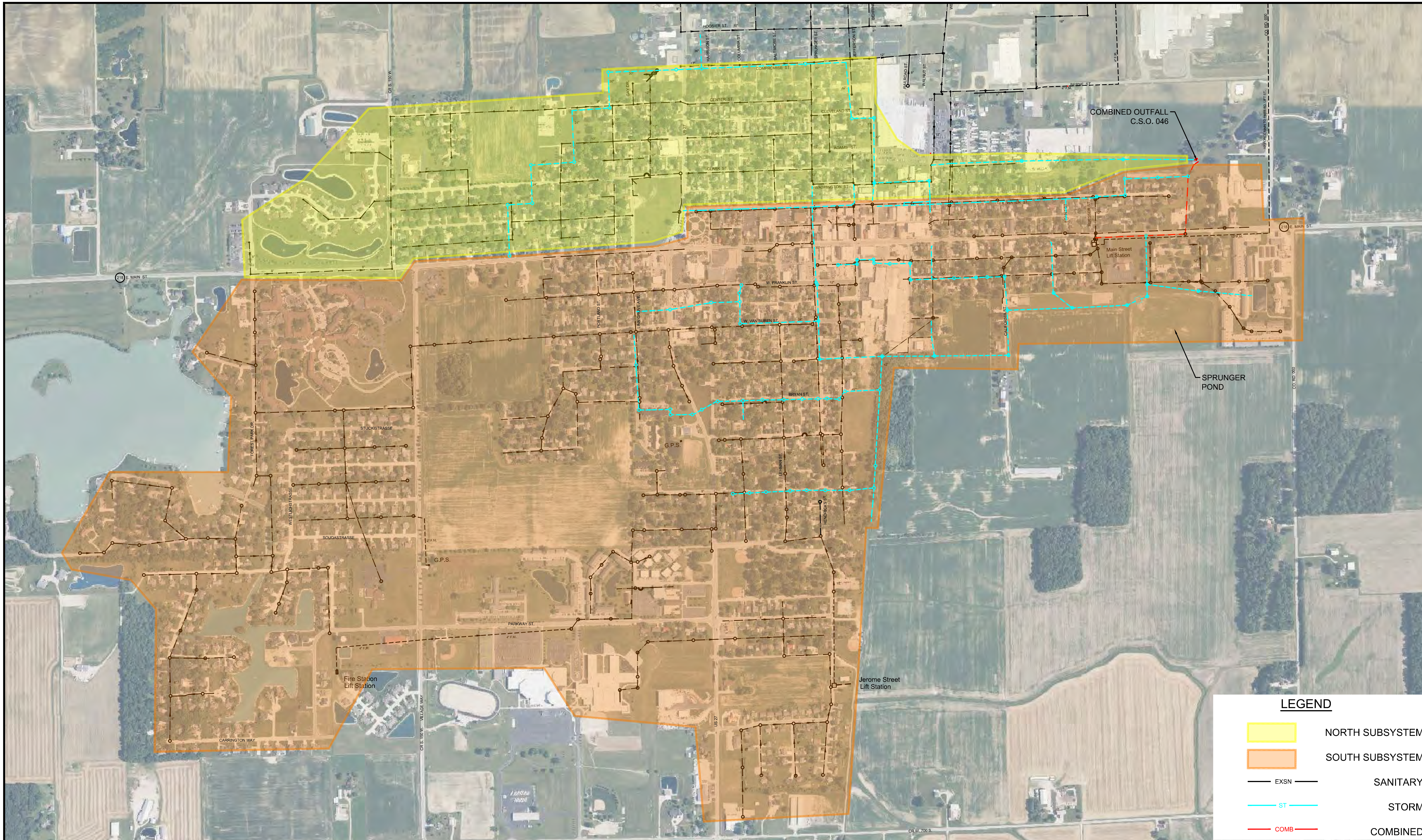
Failure to meet the requirements of the law with respect to a Petition for Administrative Review may result in a waiver of your right to seek administrative review of the Permit. Examples are:

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 you seek to have a Permit stayed during the Administrative Review, you may need to file a Petition for a Stay of Effectiveness. The specific requirements for such a Petition can be found in 315 IAC 1-3-2 and 315 IAC 1-3-2.1.
Pursuant to IC 4-21.5-3-17, OEA will provide all parties with Notice of any pre-hearing conferences, preliminary hearings, hearings, stays, or orders disposing of the review of this action. If you 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 you must submit a written request to OEA at the address above. More information on the appeal review process is available on the website for the Office of Environmental Adjudication at http://www.in.gov/oea.

Appendix B

System Aerial Map



SCALE: 1"=800'

800' 0 800'

COMMONWEALTH™ ENGINEERS, INC.
A wealth of resources to master a common goal.

CITY OF BERNE
ADAMS COUNTY, INDIANA

COMBINED SEWER OVERFLOW OPERATIONAL PLAN
SANITARY SEWER AND STORM SEWER COLLECTION SYSTEM AERIAL MAP

FIGURE

1-1

Appendix C

CSO Monthly Reports of Operation

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**								**Page 1 of 2**					**Permit Number:**	**IN0021369**							
Facility:	**Berne WWTP**													**Public Notification Requirements Met?**	**Y**							
Monitoring Period:	**January**	**2024**												**Check box if no CSO discharge occurred for the month:**	☐							
Design Peak Hourly Flow (MGD):	**1.92**	**Design Average Flow (MGD):**	**1.08**						**Measured/Metered (M) or Estimated (E) must be specified**													
WWTP Influent Data			**Precipitation Data**					**CSO Outfall No. 046**						**CSO Outfall No. [#]**								
Day of Month	**Average Daily Flow (MGD)**	**Peak Hourly Flow (MGD)**	**Time Precip. Began (am/pm)**	**Precip. Duration (Hours)**	**Total Daily Precip. (Inches)**	**Peak Intensity (Inch/hr)**	**Measurement Interval (hr, 30 m, 15 m)**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**
1	0.50	0.05			0.01														
2	0.59	0.06																	
3	0.52	0.05																	
4	0.49	0.05																	
5	0.49	0.05																	
6	0.52	0.05			0.03														
7	0.52	0.05			0.05														
8	0.75	0.08																	
9	2.74	0.27	1:00 AM	9.00	0.77	0.60	15 min	5:00 AM	M	17.00	M	1.87	M						
10	1.14	0.11			0.62														
11	0.70	0.07																	
12	2.01	0.20						3:00 PM	M	9.00	M	0.99	M						
13	1.03	0.10			0.02			12:00 AM	M	3.00	M	0.33	M						
14	0.73	0.07			0.04														
15	0.78	0.08																	
16	0.65	0.07			0.12														
17	0.64	0.06																	
18	0.58	0.06																	
19	0.58	0.06			0.26														
20	0.52	0.05			0.05														
21	0.52	0.05																	
22	0.60	0.06																	
23	1.51	0.15	4:00 PM	3.00	0.29	0.12	15 min	6:00 PM	M	2.00	M	0.22	M						
24	2.14	0.21	11:00 AM	1.00	0.25	0.06	15 min	1:00 PM	M	9.00	M	0.99	M						
25	1.88	0.19	8:00 PM	3.00	0.16	0.07	15 min												
26	1.72	0.17			0.29			12:00 AM	M	13.00	M	1.43	M						
27	1.77	0.18	7:00 PM	5.00		0.13	15 min	10:00 PM	M	2.00	M	0.22	M						
28	2.58	0.26			0.55			12:00 AM	M	24.00	M	2.64	M						
29	1.33	0.13			0.14			12:00 AM	M	4.00	M	0.44	M						
30	1.10	0.11																	
31	0.96	0.10																	
Totals:	32.59			21.00	3.65			9	Days	83.00		9.13		0	Days	0.00		0	

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	**Telephone**
Terry Kongar Certified Operator	260-589-8526

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Signature of Principal Executive Officer or Authorized Agent	**Date *(mm/dd/yy)***
Terry L Kongar	02/27/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**			**Page:** **2 of 2**	**Permit Number:** **IN0021369**
Facility:	**Berne WWTP**			**Public Notification Requirements Met?** **Y**	
Monitoring Period: January Year:	**2024**			**Check box if no CSO discharge occurred for the month:** ☐	
Design Peak Hourly Flow (MGD):	**1.92**	**Design Average Flow (MGD):**	**1.08**		

Day of Month	Comments (further explanation as to why each CSO event occurred)
1	
2	
3	
4	
5	
6	
7	
8	
9	System Full
10	
11	
12	Rain and snow melt. System Full
13	System Full
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	System Full
24	System Full
25	
26	System Full
27	System Full
28	System Full
29	System Full
30	
31	

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	**Telephone**
Terry L Kongar Certified Operator	260-589-8526

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Signature of Principal Executive Officer or Authorized Agent	**Date *(mm/dd/yy)***
Terry L Kongar	02/27/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of Berne		**Page 1 of 2**	**Permit Number:** IN0021369
Facility: Berne WWTP		**Public Notification Requirements Met?** Y	
Monitoring Period: February 2024		**Check box if no CSO discharge occurred for the month:** ☐	
Design Peak Hourly Flow (MGD): 1.92	**Design Average Flow (MGD):** 1.08	**Measured/Metered (M) or Estimated (E) must be specified**	

WWTP Influent Data			Precipitation Data					CSO Outfall No. 046						CSO Outfall No. [#]					
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	0.85	0.09																	
2	0.73	0.07																	
3	0.66	0.07																	
4	0.63	0.06																	
5	0.67	0.07																	
6	0.63	0.06																	
7	0.64	0.06																	
8	0.62	0.06																	
9	0.69	0.07																	
10	0.56	0.06																	
11	0.52	0.05																	
12	0.57	0.06																	
13	0.54	0.05																	
14	0.57	0.06																	
15	0.56	0.06																	
16	0.57	0.06			0.13														
17	0.56	0.06																	
18	0.58	0.06																	
19	0.58	0.06																	
20	0.58	0.06																	
21	0.56	0.06																	
22	1.69	0.17	3:00 PM	5.00	0.15	1.60	15 min	4:00 PM	M	5.00	M	0.68	M						
23	1.02	0.10			0.51														
24	0.93	0.09			0.70														
25	0.83	0.08																	
26	0.77	0.08																	
27	0.68	0.07																	
28	0.71	0.07			0.11														
29	0.59	0.06																	
Totals:	20.09			5.00	1.60			1	Days	5.00		0.68		0	Days	0.00		0	

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	**Telephone**
Terry Kongar Certified Operator	260-589-8526

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Signature of Principal Executive Officer or Authorized Agent	**Date *(mm/dd/yy)***
Terry Kongar	03/28/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**			**Page:** **2 of 2**	**Permit Number:** **IN0021369**
Facility:	**Berne WWTP**			**Public Notification Requirements Met?** **Y**	
Monitoring Period:	**February**	**2024**		**Check box if no CSO discharge occurred for the month:** ☐	
Design Peak Hourly Flow (MGD):	**1.92**	**Design Average Flow (MGD):**	**1.08**		

Day of Month	Comments (further explanation as to why each CSO event occurred)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	System Full
23	
24	
25	
26	
27	
28	
29	
30	
31	

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	**Telephone**
Terry Kongar Certified Operator	260-589-8526

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Signature of Principal Executive Officer or Authorized Agent	**Date *(mm/dd/yy)***
Terry Kongar	03/28/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**								**Page 1 of 2**						**Permit Number:**	**IN0021369**						
Facility:	**Berne WWTP**														**Public Notification Requirements Met?**	**Y**						
Monitoring Period:	**March**	**2024**													**Check box if no CSO discharge occurred for the month:**	☐						
Design Peak Hourly Flow (MGD):	**1.92**	**Design Average Flow (MGD):**	**1.08**						**Measured/Metered (M) or Estimated (E) must be specified**													
WWTP Influent Data			**Precipitation Data**					**CSO Outfall No. 046**							**CSO Outfall No. [#]**							
Day of Month	**Average Daily Flow (MGD)**	**Peak Hourly Flow (MGD)**	**Time Precip. Began (am/pm)**	**Precip. Duration (Hours)**	**Total Daily Precip. (Inches)**	**Peak Intensity (Inch/hr)**	**Measurement Interval (hr, 30 m, 15 m)**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**		**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**		
1	0.59	0.06																				
2	0.56	0.06			0.05																	
3	0.59	0.06																				
4	0.57	0.06																				
5	0.64	0.06																				
6	0.59	0.06			0.13																	
7	0.58	0.06																				
8	1.34	0.13																				
9	1.05	0.11			0.50																	
10	0.70	0.07																				
11	0.68	0.07																				
12	0.66	0.07																				
13	0.60	0.06																				
14	2.54	0.25	12:00 PM	3.00	0.22	5.50	15 min	1:30 PM	M	10.50	M	1.16	M									
15	1.78	0.18			1.21			12:00 AM	M	17.00	M	1.87	M									
16	0.97	0.10																				
17	0.83	0.08			0.05																	
18	0.74	0.07																				
19	0.68	0.07																				
20	0.59	0.06																				
21	0.63	0.06																				
22	0.56	0.06																				
23	0.58	0.06																				
24	0.58	0.06																				
25	0.57	0.06																				
26	0.66	0.07			0.25																	
27	0.53	0.05																				
28	0.51	0.05																				
29	0.55	0.06			0.04																	
30	1.01	0.10			0.31																	
31	1.29	0.13			0.06																	
Totals:	24.75			3.00	2.82			2	Days	27.50		3.03			0	Days	0.00		0			

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	**Telephone**
Terry L Kongar Certified Operator	260-589-8526

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Signature of Principal Executive Officer or Authorized Agent	**Date *(mm/dd/yy)***
Terry L Kongar	04/26/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of Berne			**Permit Number:** IN0021369
Facility: Berne WWTP			**Public Notification Requirements Met?** Y
Monitoring Period: March 2024			**Check box if no CSO discharge occurred for the month:** ☐
Design Peak Hourly Flow (MGD): 1.92	**Design Average Flow (MGD):** 1.08		**Measured/Metered (M) or Estimated (E) must be specified**

WWTP Influent Data			Precipitation Data					CSO Outfall No. 046						CSO Outfall No. [#]					
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	0.59	0.06																	
2	0.56	0.06			0.05														
3	0.59	0.06																	
4	0.57	0.06																	
5	0.64	0.06																	
6	0.59	0.06			0.13														
7	0.58	0.06																	
8	1.34	0.13																	
9	1.05	0.11			0.50														
10	0.70	0.07																	
11	0.68	0.07																	
12	0.66	0.07																	
13	0.60	0.06																	
14	2.54	0.25	12:00 PM	3.00	0.22	5.50	15 min	1:30 PM	M	10.50	M	1.16	M						
15	1.78	0.18			1.21			12:00 AM	M	17.00	M	1.87	M						
16	0.97	0.10																	
17	0.83	0.08			0.05														
18	0.74	0.07																	
19	0.68	0.07																	
20	0.59	0.06																	
21	0.63	0.06																	
22	0.56	0.06																	
23	0.58	0.06																	
24	0.58	0.06																	
25	0.57	0.06																	
26	0.66	0.07			0.25														
27	0.53	0.05																	
28	0.51	0.05																	
29	0.55	0.06			0.04														
30	1.01	0.10			0.31														
31	1.29	0.13			0.06														
Totals:	24.75			3.00	2.82			2	Days	27.50		3.03		0	Days	0.00		0	

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	Telephone
Terry L Kongar Certified Operator	260-589-8526

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Signature of Principal Executive Officer or Authorized Agent	Date *(mm/dd/yy)*
Terry L Kongar	04/26/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:		**Page 2 of 2**	**Permit Number:** IN0021369
Facility:		**Public Notification Requirements Met?** Y	
Monitoring Period: March			**Check box if no CSO discharge occurred for the month:** ☐
Design Peak Flow (Hourly) (MGD):	**Design Flow (MGD):** 1.08	**Measured/Metered (M) or Estimated (E) must be specified**	

	CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]					
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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Totals:	0	Days	0.00		0		0	Days	0.00		0		0	Days	0		0		0	Days	0.00		0	

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of Berne		**Page 3 of 2**	**Permit Number:** IN0021369
Facility: Berne WWTP			**Public Notification Requirements Met?** Y
Monitoring Period: March 2024			**Check box if no CSO discharge occurred for the month:** ☐
Design Peak Flow (Hourly) (MGD): 1.92	**Design Flow (MGD):** 1.08	**Measured/Metered (M) or Estimated (E) must be specified**	

	CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]					
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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Totals:	0	Days	0.00		0		0	Days	0.00		0		0	Days	0.00		0		0	Days	0.00		0	

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of Berne		**Page 4 of 2**	**Permit Number:** IN0021369
Facility: Berne WWTP		**Public Notification Requirements Met?** Y	
Monitoring Period: March 2024		**Check box if no CSO discharge occurred for the month:** ☐	
Design Peak Flow (Hourly) (MGD): 1.92	**Design Flow (MGD):** 1.08	**Measured/Metered (M) or Estimated (E) must be specified**	

	CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]					
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
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City:	**City of Berne**		**Page 5 of 2**	**Permit Number:**	**IN0021369**
Facility:	**Berne WWTP**		**Public Notification Requirements Met?**	**Y**	
Monitoring Period:	**March**	**2024**	**Check box if no CSO discharge occurred for the month:**		☐
Design Peak Flow (Hourly) (MGD):	**1.92**	**Design Flow (MGD):**	**1.08**	**Measured/Metered (M) or Estimated (E) must be specified**	

	CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]					
Day of Month	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**
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Totals:	0	Days	0.00		0		0	Days	0.00		0		0	Days	0.00		0		0	Days	0.00		0	

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
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City:	**City of Berne**		**Page 6 of 2**	**Permit Number:**	**IN0021369**
Facility:	**Berne WWTP**		**Public Notification Requirements Met?**	**Y**	
Monitoring Period:	**March**	**2024**	**Check box if no CSO discharge occurred for the month:**		☐
Design Peak Flow (Hourly) (MGD):	**1.92**	**Design Flow (MGD):**	**1.08**	**Measured/Metered (M) or Estimated (E) must be specified**	

	CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]					
Day of Month	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**
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Totals:	0	Days	0.00		0		0	Days	0.00		0		0	Days	0.00		0		0	Days	0.00		0	

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of Berne		**Page 7 of 2**	**Permit Number:** IN0021369
Facility: Berne WWTP			**Public Notification Requirements Met?** Y
Monitoring Period: March 2024			**Check box if no CSO discharge occurred for the month:** ☐
Design Peak Flow (Hourly) (MGD): 1.92	**Design Flow (MGD):** 1.08	**Measured/Metered (M) or Estimated (E) must be specified**	

	CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]					
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**		**Page 8 of 2**	**Permit Number:**	**IN0021369**
Facility:	**Berne WWTP**		**Public Notification Requirements Met?**	**Y**	
Monitoring Period:	**March**	**2024**	**Check box if no CSO discharge occurred for the month:**		☐
Design Peak Flow (Hourly) (MGD):	**1.92**	**Design Flow (MGD):**	**1.08**	**Measured/Metered (M) or Estimated (E) must be specified**	

	CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]					
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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Totals:	0	Days	0.00		0		0	Days	0.00		0		0	Days	0.00		0		0	Days	0.00		0	

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of Berne			Permit Number: IN0021369
Facility: Berne WWTP		Public Notification Requirements Met? Y	
Monitoring Period: April 2024		Check box if no CSO discharge occurred for the month: ☐	
Design Peak Hourly Flow (MGD): 1.92	Design Average Flow (MGD): 1.08	Measured/Metered (M) or Estimated (E) must be specified	

WWTP Influent Data			Precipitation Data					CSO Outfall No. 046						CSO Outfall No. [#]					
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	3.32	0.33	12:00 AM	4.00	1.03	1.10	15 min	1:00 AM	M	23.00	M	2.53	M						
2	3.31	0.33	3:00 AM	4.00	1.81	1.30	15 min	12:00 AM	M	24.00	M	2.64	M						
3	2.32	0.23			0.13			12:00 AM	M	24.00	M	3.12	M						
4	1.64	0.16	12:00 PM	1.00	0.22	0.10	15 min	12:00 AM	M	11.00	M	1.1	M						
5	0.96	0.10			0.07														
6	0.78	0.08																	
7	0.79	0.08																	
8	0.78	0.08	9:00 PM	0.50	0.13	0.80	15 min												
9	0.66	0.07																	
10	1.90	0.19	4:00 PM	5.00		0.34	15 min	8:00 PM	M	4.00	M	0.44	M						
11	3.57	0.36	4AM	4.00	1.56	0.42	15 min	12:00 AM	M	24.00	M	2.12	M						
12	2.33	0.23			0.65			12:00 AM	M	24.00	M	1.36	M						
13	0.98	0.10						12:00 AM	M	3.00	M	0.33	M						
14	0.80	0.08																	
15	0.71	0.07																	
16	0.70	0.07																	
17	1.78	0.18	1:00 PM	1.00	0.13	4.80	15 min	2:00 PM	M	9.00	M	0.99	M						
18	1.22	0.12			0.43														
19	1.58	0.16	1:00 AM	2.00	0.48	0.60	15 min	3:00 AM	M	13.00	M	1.3	M						
20	0.75	0.08																	
21	0.67	0.07																	
22	0.60	0.06																	
23	2.02	0.20	12:00 PM	5.00		0.44	15 min	5:00 PM	M	7.00	M	0.77	M						
24	1.17	0.12			0.72			12:00 AM	M	6.00	M	0.66	M						
25	0.83	0.08																	
26	0.73	0.07																	
27	0.66	0.07	5:00 PM	0.50	0.15	0.42	15 min												
28	0.66	0.07			0.03														
29	1.38	0.14	5:00 PM	3.00		2.50	15 min	7:00 PM	M	5.00	M	..52	M						
30	0.96	0.10			0.67			12:00 AM	M	2.00	M	0.19	M						
Totals:	40.56			30.00	8.21			13	Days	179.00		17.55		0	Days	0.00		0	

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	Telephone
Terry Kongar Certified Operator	260-589-8526

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Signature of Principal Executive Officer or Authorized Agent	Date *(mm/dd/yy)*
Terry Kongar	05/28/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**				**Page: 2 of 2**	**Permit Number: IN0021369**	
Facility:	**Berne WWTP**				**Public Notification Requirements Met? Y**		
Monitoring Period:	**April**	**2024**			**Check box if no CSO discharge occurred for the month:** ☐		
Design Peak Hourly Flow (MGD):	**1.92**	**Design Average Flow (MGD):**	**1.08**				

Day of Month	Comments (further explanation as to why each CSO event occurred)
1	System Full
2	System Full
3	System Full
4	System Full
5	
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10	System Full
11	System Full
12	System Full
13	System Full
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23	System Full
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29	System Full
30	System Full
31	

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	Telephone
Terry Kongar Certified Operator	260-589-8526

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Signature of Principal Executive Officer or Authorized Agent	Date *(mm/dd/yy)*
Terry Kongar	05/28/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**								**Page 1 of 2**					**Permit Number:**	**IN0021369**					
Facility:	**Berne WWTP**													**Public Notification Requirements Met?**	**Y**					
Monitoring Period:		**May**	**2024**											**Check box if no CSO discharge occurred for the month:**						☐
Design Peak Hourly Flow (MGD):		**1.92**	**Design Average Flow (MGD):**		**1.08**				**Measured/Metered (M) or Estimated (E) must be specified**											

WWTP Influent Data			**Precipitation Data**					**CSO Outfall No. 046**						**CSO Outfall No. [#]**						
Day of Month	**Average Daily Flow (MGD)**	**Peak Hourly Flow (MGD)**	**Time Precip. Began (am/pm)**	**Precip. Duration (Hours)**	**Total Daily Precip. (Inches)**	**Peak Intensity (Inch/hr)**	**Measurement Interval (hr, 30 m, 15 m)**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**
1	0.68	0.07																		
2	0.62	0.06																		
3	0.61	0.06			0.01															
4	0.51	0.05																		
5	0.52	0.05																		
6	0.55	0.06																		
7	0.65	0.07																		
8	0.53	0.05			0.12															
9	1.03	0.10	1:30 PM	2.00		2.80	15 min	2:00 PM	M	4.00	M	0.36	M							
10	0.64	0.06			0.42															
11	0.65	0.07			0.19															
12	0.59	0.06																		
13	0.57	0.06																		
14	0.73	0.07																		
15	0.64	0.06	3:00 PM	2.00	0.33	0.16	15 min													
16	0.57	0.06																		
17	0.59	0.06			0.02															
18	0.49	0.05																		
19	0.48	0.05																		
20	0.53	0.05																		
21	0.54	0.05																		
22	0.49	0.05																		
23	0.48	0.05																		
24	0.49	0.05																		
25	0.45	0.05			0.08															
26	1.70	0.17	2:00 PM	2.00		4.50	15 min	3:00 PM	M	9.00	M	1.16	M							
27	0.88	0.09			1.27															
28	0.76	0.08	8:00 PM	2.00		1.40	15 min	9:00 PM	M	1.00	M	0.11	M							
29	0.61	0.06			0.25															
30	0.59	0.06			0.01															
31	0.51	0.05																		
Totals:	19.68			8.00	2.70			3	Days	14.00		1.63		0	Days	0.00		0		

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	**Telephone**
Terry L Kongar Certified Operator	260-589-8526

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Signature of Principal Executive Officer or Authorized Agent	**Date *(mm/dd/yy)***
Terry L Kongar	06/28/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**				**Page: 2 of 2**	**Permit Number:**	**IN0021369**
Facility:	**Berne WWTP**				**Public Notification Requirements Met?**	**Y**	
Monitoring Period:	**May**	**2024**			**Check box if no CSO discharge occurred for the month:**		☐
Design Peak Hourly Flow (MGD):		**1.92**	**Design Average Flow (MGD):**	**1.08**			

Day of Month	Comments (further explanation as to why each CSO event occurred)
1	
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4	
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7	
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9	System Full
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26	System Full
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28	System Full
29	
30	
31	

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	**Telephone**
Terry L Kongar Certified Operator	260-589-8526

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Signature of Principal Executive Officer or Authorized Agent	**Date *(mm/dd/yy)***
Terry L Kongar	06/28/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**									**Page 1 of 2**					**Permit Number:**	**IN0021369**						
Facility:	**Berne WWTP**														**Public Notification Requirements Met?**	**Y**						
Monitoring Period:	**June**	**2024**													**Check box if no CSO discharge occurred for the month:**	☐						
Design Peak Hourly Flow (MGD):	**1.92**	**Design Average Flow (MGD):**	**1.08**							**Measured/Metered (M) or Estimated (E) must be specified**												
WWTP Influent Data			**Precipitation Data**					**CSO Outfall No.**	**046**						**CSO Outfall No.**	**[#]**						
Day of Month	**Average Daily Flow (MGD)**	**Peak Hourly Flow (MGD)**	**Time Precip. Began (am/pm)**	**Precip. Duration (Hours)**	**Total Daily Precip. (Inches)**	**Peak Intensity (Inch/hr)**	**Measurement Interval (hr, 30 m, 15 m)**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**		**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**		
1	0.78	0.08	5:00 AM	3.00	0.31	0.23	15 min															
2	0.68	0.07			0.04																	
3	0.59	0.06																				
4	0.58	0.06																				
5	0.55	0.06			0.03																	
6	0.51	0.05																				
7	0.50	0.05																				
8	0.48	0.05																				
9	0.51	0.05																				
10	0.47	0.05																				
11	0.47	0.05																				
12	0.50	0.05																				
13	0.56	0.06			0.06																	
14	0.48	0.05																				
15	0.46	0.05																				
16	0.45	0.05																				
17	0.54	0.05																				
18	0.51	0.05																				
19	0.49	0.05																				
20	0.54	0.05																				
21	0.50	0.05																				
22	0.64	0.06																				
23	1.00	0.10	4:00 AM	2.50	0.76	2.70	15 min	5:00 PM	M	6.00	M	0.66	M									
24	0.61	0.06																				
25	0.55	0.06			0.09																	
26	1.04	0.10	10:30 AM	1.50	0.55	3.80	15 min	11:00 AM	M	2.00	M	0.35	M									
27	0.60	0.06			0.01																	
28	0.55	0.06																				
29	1.19	0.12	7:30 AM	4.00	0.54	1.30	15 min	10:00 AM	M	5.00	M	0.55	M									
30	0.52	0.05																				
Totals:	17.85			11.00	2.39			3	Days	13.00		1.56			0	Days	0.00		0			

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	**Telephone**
Terry L Kongar Certified Operator	260-589-8526

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Signature of Principal Executive Officer or Authorized Agent	**Date *(mm/dd/yy)***
Terry L Kongar	07/25/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**			**Page:** **2 of 2**	**Permit Number:** **IN0021369**
Facility:	**Berne WWTP**			**Public Notification Requirements Met?** **Y**	
Monitoring Period:	**June**	**2024**		**Check box if no CSO discharge occurred for the month:** ☐	
Design Peak Hourly Flow (MGD):	**1.92**	**Design Average Flow (MGD):**	**1.08**		

Day of Month	Comments (further explanation as to why each CSO event occurred)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	System Full
24	
25	
26	System Full
27	
28	
29	System Full
30	
31	

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	**Telephone**
Terry L Kongar Certified Operator	260-589-8526

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Signature of Principal Executive Officer or Authorized Agent	**Date *(mm/dd/yy)***
Terry L Kongar	07/25/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**								**Page 1 of 2**						**Permit Number:**	**IN0021369**				
Facility:	**Berne WWTP**														**Public Notification Requirements Met?**	**Y**				
Monitoring Period:		**July**	**2024**												**Check box if no CSO discharge occurred for the month:**		☐			
Design Peak Hourly Flow (MGD):		**1.92**	**Design Average Flow (MGD):**		**1.08**				**Measured/Metered (M) or Estimated (E) must be specified**											
WWTP Influent Data			**Precipitation Data**					**CSO Outfall No. 046**							**CSO Outfall No. [#]**					
Day of Month	**Average Daily Flow (MGD)**	**Peak Hourly Flow (MGD)**	**Time Precip. Began (am/pm)**	**Precip. Duration (Hours)**	**Total Daily Precip. (Inches)**	**Peak Intensity (Inch/hr)**	**Measurement Interval (hr, 30 m, 15 m)**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	
1	0.54	0.05																		
2	0.50	0.05																		
3	0.59	0.06																		
4	1.13	0.11	5:00 PM	3.00	0.53	3.10	15 min	6:30 PM	M	4.00	M	0.44	M							
5	0.62	0.06			0.02															
6	0.51	0.05																		
7	0.49	0.05																		
8	0.55	0.06																		
9	1.14	0.11	9:30 PM	2.00	0.29	2.80	15 min													
10	1.25	0.13	12AM	1.00	0.49	2.80	15 min	1:00 AM	M	6.00	M	0.71	M							
11	0.59	0.06																		
12	0.58	0.06																		
13	0.49	0.05																		
14	1.18	0.12	12:30 PM	2.00	0.32	3.20	15 min	2PM	M	3.00	M	0.29	M							
15	0.50	0.05			0.02															
16	0.58	0.06	10:30 AM	0.50	0.13	1.60	15 min													
17	0.99	0.10			0.10															
18	0.57	0.06																		
19	0.50	0.05																		
20	0.48	0.05																		
21	0.51	0.05																		
22	0.53	0.05																		
23	0.49	0.05																		
24	0.48	0.05																		
25	0.54	0.05																		
26	0.54	0.05																		
27	0.46	0.05																		
28	0.46	0.05																		
29	0.57	0.06	9:30 PM	0.50	0.14	4.50	15 min													
30	0.48	0.05																		
31	0.52	0.05																		
Totals:	19.36			9.00	2.04			3	Days	13.00		1.44		0	Days	0.00		0		

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	**Telephone**
Terry L. Kongar Certified Operator	260-589-8526

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Signature of Principal Executive Officer or Authorized Agent	**Date *(mm/dd/yy)***
Terry L. Kongar	08/16/23

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**			**Page:** 2 of 2	**Permit Number:** IN0021369
Facility:	**Berne WWTP**			**Public Notification Requirements Met?**	Y
Monitoring Period:	**July**	**2024**		**Check box if no CSO discharge occurred for the month:**	☐
Design Peak Hourly Flow (MGD):	**1.92**	**Design Average Flow (MGD):**	**1.08**		

Day of Month	Comments (further explanation as to why each CSO event occurred)
1	
2	
3	
4	System Full
5	
6	
7	
8	
9	
10	System Full
11	
12	
13	
14	System Full
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Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	Telephone
Terry L. Kongar Certified Operator	260-589-8526

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Signature of Principal Executive Officer or Authorized Agent	Date *(mm/dd/yy)*
Terry L. Kongar	08/28/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of Berne	Page 1 of 2	Permit Number: IN0021369	
Facility: Berne WWTP		Public Notification Requirements Met? Y	
Monitoring Period: August 2024		Check box if no CSO discharge occurred for the month: ☐	
Design Peak Hourly Flow (MGD): 1.92	Design Average Flow (MGD): 1.08	Measured/Metered (M) or Estimated (E) must be specified	

WWTP Influent Data			Precipitation Data					CSO Outfall No. 046						CSO Outfall No. [#]					
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	0.47	0.05																	
2	1.32	0.13	2:30 PM	4.00	1.18	3.40	15 min	4:00 PM	M	7.00	M	0.04	M						
3	0.61	0.06																	
4	0.53	0.05																	
5	0.55	0.06																	
6	0.73	0.07	5:00 PM	0.50	0.24	3.00	15 min												
7	0.57	0.06			0.01														
8	0.50	0.05																	
9	0.49	0.05																	
10	0.50	0.05																	
11	0.47	0.05																	
12	0.50	0.05																	
13	0.49	0.05																	
14	0.48	0.05																	
15	0.50	0.05			0.10														
16	0.67	0.07			0.10														
17	0.59	0.06	2:00 AM	1.00	0.29	1.00	15 min												
18	0.52	0.05			0.07														
19	0.51	0.05																	
20	0.50	0.05																	
21	0.51	0.05																	
22	0.46	0.05																	
23	0.49	0.05																	
24	0.44	0.04																	
25	0.50	0.05																	
26	0.52	0.05																	
27	0.50	0.05																	
28	0.55	0.06			0.15														
29	0.52	0.05																	
30	0.59	0.06	10:00 PM	2.00	0.27	2.60	15 min												
31	0.51	0.05			0.14														
Totals:	17.09			7.50	2.55			1	Days	7.00		0.04		0	Days	0.00		0	

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	Telephone
Terry Kongar Certified Operator	260-589-8526

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Signature of Principal Executive Officer or Authorized Agent	Date *(mm/dd/yy)*
Terry Kongar	09/27/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of Berne		Page 1 of 2	**Permit Number:** IN0021369
Facility: Berne WWTP		**Public Notification Requirements Met?** Y	
Monitoring Period: August 2024		**Check box if no CSO discharge occurred for the month:** ☐	
Design Peak Hourly Flow (MGD): 1.92	**Design Average Flow (MGD):** 1.08	**Measured/Metered (M) or Estimated (E) must be specified**	

WWTP Influent Data			Precipitation Data					CSO Outfall No. 046						CSO Outfall No. [#]					
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	0.47	0.05																	
2	1.32	0.13	2:30 PM	4.00	1.18	3.40	15 min	4:00 PM	M	7.00	M	0.04	M						
3	0.61	0.06																	
4	0.53	0.05																	
5	0.55	0.06																	
6	0.73	0.07	5:00 PM	0.50	0.24	3.00	15 min												
7	0.57	0.06			0.01														
8	0.50	0.05																	
9	0.49	0.05																	
10	0.50	0.05																	
11	0.47	0.05																	
12	0.50	0.05																	
13	0.49	0.05																	
14	0.48	0.05																	
15	0.50	0.05			0.10														
16	0.67	0.07			0.10														
17	0.59	0.06	2:00 AM	1.00	0.29	1.00	15 min												
18	0.52	0.05			0.07														
19	0.51	0.05																	
20	0.50	0.05																	
21	0.51	0.05																	
22	0.46	0.05																	
23	0.49	0.05																	
24	0.44	0.04																	
25	0.50	0.05																	
26	0.52	0.05																	
27	0.50	0.05																	
28	0.55	0.06			0.15														
29	0.52	0.05																	
30	0.59	0.06	10:00 PM	2.00	0.27	2.60	15 min												
31	0.51	0.05			0.14														
Totals:	17.09			7.50	2.55			1	Days	7.00		0.04		0	Days	0.00		0	

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	**Telephone**
Terry Kongar Certified Operator	260-589-8526

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Signature of Principal Executive Officer or Authorized Agent	**Date *(mm/dd/yy)***
Terry Kongar	09/27/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of Berne		**Page 2 of 2**	**Permit Number:** IN0021369
Facility: Berne WWTP		**Public Notification Requirements Met?** Y	
Monitoring Period: August 2024		**Check box if no CSO discharge occurred for the month:** ☐	
Design Peak Flow (Hourly) (MGD): 1.92	**Design Flow (MGD):** 1.08	**Measured/Metered (M) or Estimated (E) must be specified**	

	CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]					
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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Totals:	0	Days	0.00		0		0	Days	0.00		0		0	Days	0		0		0	Days	0.00		0	

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of Berne		**Page 3 of 2**	**Permit Number:** IN0021369
Facility: Berne WWTP			**Public Notification Requirements Met?** Y
Monitoring Period: August 2024			**Check box if no CSO discharge occurred for the month:** ☐
Design Peak Flow (Hourly) (MGD): 1.92	**Design Flow (MGD):** 1.08	**Measured/Metered (M) or Estimated (E) must be specified**	

	CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]					
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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30																								
Totals:	0	Days	0.00		0		0	Days	0.00		0		0	Days	0.00		0		0	Days	0.00		0	

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of Berne		**Page 4 of 2**	**Permit Number:** IN0021369
Facility: Berne WWTP		**Public Notification Requirements Met?** Y	
Monitoring Period: August 2024		**Check box if no CSO discharge occurred for the month:** ☐	
Design Peak Flow (Hourly) (MGD): 1.92	**Design Flow (MGD):** 1.08	**Measured/Metered (M) or Estimated (E) must be specified**	

	CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]					
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**		**Page 5 of 2**	**Permit Number:**	**IN0021369**
Facility:	**Berne WWTP**		**Public Notification Requirements Met?**	**Y**	
Monitoring Period:	**August**	**2024**	**Check box if no CSO discharge occurred for the month:**		☐
Design Peak Flow (Hourly) (MGD):	**1.92**	**Design Flow (MGD):**	**1.08**	**Measured/Metered (M) or Estimated (E) must be specified**	

	CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]					
Day of Month	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**
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Totals:	0	Days	0.00		0		0	Days	0.00		0		0	Days	0.00		0		0	Days	0.00		0	

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**		**Page 6 of 2**	**Permit Number:**	**IN0021369**
Facility:	**Berne WWTP**		**Public Notification Requirements Met?**	**Y**	
Monitoring Period:	**August**	**2024**	**Check box if no CSO discharge occurred for the month:**		☐
Design Peak Flow (Hourly) (MGD):	**1.92**	**Design Flow (MGD):**	**1.08**	**Measured/Metered (M) or Estimated (E) must be specified**	

	CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]					
Day of Month	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**
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Totals:	0	Days	0.00		0		0	Days	0.00		0		0	Days	0.00		0		0	Days	0.00		0	

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**		**Page 7 of 2**	**Permit Number:**	**IN0021369**
Facility:	**Berne WWTP**		**Public Notification Requirements Met?**	**Y**	
Monitoring Period:	**August**	**2024**	**Check box if no CSO discharge occurred for the month:**		☐
Design Peak Flow (Hourly) (MGD):	**1.92**	**Design Flow (MGD):**	**1.08**	**Measured/Metered (M) or Estimated (E) must be specified**	

	CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]					
Day of Month	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**
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National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**		**Page 8 of 2**	**Permit Number:**	**IN0021369**
Facility:	**Berne WWTP**		**Public Notification Requirements Met?**	**Y**	
Monitoring Period:	**August**	**2024**	**Check box if no CSO discharge occurred for the month:**		☐
Design Peak Flow (Hourly) (MGD):	**1.92**	**Design Flow (MGD):**	**1.08**	**Measured/Metered (M) or Estimated (E) must be specified**	

	CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]						CSO Outfall No. [#]					
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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Totals:	0	Days	0.00		0		0	Days	0.00		0		0	Days	0.00		0		0	Days	0.00		0	

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of Berne		Page 1 of 2	Permit Number: IN0021369
Facility: Berne WWTP		Public Notification Requirements Met? Y	
Monitoring Period: September 2024		Check box if no CSO discharge occurred for the month: ☐	
Design Peak Hourly Flow (MGD): 1.92	Design Average Flow (MGD): 1.08	Measured/Metered (M) or Estimated (E) must be specified	

WWTP Influent Data			Precipitation Data					CSO Outfall No. 046						CSO Outfall No. [#]					
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	0.44	0.04																	
2	0.47	0.05																	
3	0.54	0.05																	
4	0.53	0.05																	
5	0.47	0.05																	
6	0.46	0.05			0.05														
7	0.47	0.05																	
8	0.42	0.04																	
9	0.45	0.05																	
10	0.48	0.05																	
11	0.49	0.05																	
12	0.46	0.05																	
13	0.45	0.05																	
14	0.41	0.04																	
15	0.45	0.05																	
16	0.50	0.05																	
17	0.47	0.05																	
18	0.44	0.04																	
19	0.46	0.05																	
20	0.49	0.05			0.01														
21	0.44	0.04																	
22	0.55	0.06	1:00 PM	1.00	0.19	1.00	15 min												
23	0.48	0.05			0.04														
24	0.97	0.10	11:30 AM	1.00	1.00	6.50	15 min	1:00 PM	M	3.00	M	0.03	M						
25	0.56	0.06																	
26	0.51	0.05																	
27	0.86	0.09	4:00 PM	2.30	0.42	2.00	15 min												
28	0.61	0.06			0.06														
29	0.58	0.06			0.03														
30	0.51	0.05																	
Totals:	15.42			4.30	1.80			1	Days	3.00		0.03		0	Days	0.00		0	

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	Telephone
Terry Kongar Certified Operator	260-589-8526

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Signature of Principal Executive Officer or Authorized Agent	Date *(mm/dd/yy)*
Terry Kongar Certified Operator	10/18/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**			**Page:** **2 of 2**	**Permit Number:** **IN0021369**
Facility:	**Berne WWTP**			**Public Notification Requirements Met?** **Y**	
Monitoring Period:	**September**	**2024**		**Check box if no CSO discharge occurred for the month:** ☐	
Design Peak Hourly Flow (MGD):	**1.92**	**Design Average Flow (MGD):**	**1.08**		

Day of Month	Comments (further explanation as to why each CSO event occurred)
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Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	**Telephone**
Terry Kongar Certified Operator	260-589-8526

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Signature of Principal Executive Officer or Authorized Agent	**Date *(mm/dd/yy)***
Terry Kongar Certified Operator	10/18/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of Berne		**Page 1 of 2**	**Permit Number:** IN0021369
Facility: Berne WWTP		**Public Notification Requirements Met?** Y	
Monitoring Period: September 2024		**Check box if no CSO discharge occurred for the month:** ☐	
Design Peak Hourly Flow (MGD): 1.92	**Design Average Flow (MGD):** 1.08	**Measured/Metered (M) or Estimated (E) must be specified**	

WWTP Influent Data			Precipitation Data					CSO Outfall No. 046						CSO Outfall No. [#]					
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	0.44	0.04																	
2	0.47	0.05																	
3	0.54	0.05																	
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6	0.46	0.05			0.05														
7	0.47	0.05																	
8	0.42	0.04																	
9	0.45	0.05																	
10	0.48	0.05																	
11	0.49	0.05																	
12	0.46	0.05																	
13	0.45	0.05																	
14	0.41	0.04																	
15	0.45	0.05																	
16	0.50	0.05																	
17	0.47	0.05																	
18	0.44	0.04																	
19	0.46	0.05																	
20	0.49	0.05			0.01														
21	0.44	0.04																	
22	0.55	0.06	1:00 PM	1.00	0.19	1.00	15 min												
23	0.48	0.05			0.04														
24	0.97	0.10	11:30 AM	1.00	1.00	6.50	15 min	1:00 PM	M	3.00	M	0.03	M						
25	0.56	0.06																	
26	0.51	0.05																	
27	0.86	0.09	4:00 PM	2.30	0.42	2.00	15 min												
28	0.61	0.06			0.06														
29	0.58	0.06			0.03														
30	0.51	0.05																	
Totals:	15.42			4.30	1.80			1	Days	3.00		0.03		0	Days	0.00		0	

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	**Telephone**
Terry Kongar Certified Operator	260-589-8526

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Signature of Principal Executive Officer or Authorized Agent	**Date *(mm/dd/yy)***
Terry Kongar Certified Operator	10/18/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**			**Page:** **2 of 2**	**Permit Number:** **IN0021369**
Facility:	**Berne WWTP**			**Public Notification Requirements Met?** **Y**	
Monitoring Period:	**September**	**2024**		**Check box if no CSO discharge occurred for the month:** ☐	
Design Peak Hourly Flow (MGD):	**1.92**	**Design Average Flow (MGD):**	**1.08**		

Day of Month	Comments (further explanation as to why each CSO event occurred)
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24	System Full
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Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	**Telephone**
Terry Kongar Certified Operator	260-589-8526

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Signature of Principal Executive Officer or Authorized Agent	**Date *(mm/dd/yy)***
Terry Kongar Certified Operator	10/18/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of Berne	**Page 1 of 2**	**Permit Number:** IN0021369
Facility: Berne WWTP		**Public Notification Requirements Met?** Y
Monitoring Period: October 2024		**Check box if no CSO discharge occurred for the month:** ☐
Design Peak Hourly Flow (MGD): 1.92	**Design Average Flow (MGD):** 1.08	**Measured/Metered (M) or Estimated (E) must be specified**

WWTP Influent Data			Precipitation Data					CSO Outfall No. 046						CSO Outfall No. [#]					
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	0.56	0.06																	
2	0.46	0.05																	
3	0.46	0.05																	
4	0.45	0.05																	
5	0.46	0.05																	
6	0.51	0.05																	
7	0.48	0.05																	
8	0.44	0.04																	
9	0.45	0.05																	
10	0.48	0.05																	
11	0.49	0.05																	
12	0.41	0.04																	
13	0.42	0.04																	
14	0.45	0.05			0.02														
15	0.49	0.05			0.09														
16	0.45	0.05																	
17	0.46	0.05																	
18	0.43	0.04																	
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23	0.42	0.04																	
24	0.47	0.05																	
25	0.48	0.05			0.14														
26	0.40	0.04			0.01														
27	0.41	0.04																	
28	0.44	0.04																	
29	0.49	0.05																	
30	0.44	0.04																	
31	0.48	0.05			0.01														
Totals:	14.09			0.00	0.27			0	Days	0.00		0		0	Days	0.00		0	

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	**Telephone**
Terry Kongar Certified Operator	260-589-8526

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Signature of Principal Executive Officer or Authorized Agent	**Date *(mm/dd/yy)***
Terry Kongar	11/25/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**			**Page: 2 of 2**	**Permit Number: IN0021369**
Facility:	**Berne WWTP**			**Public Notification Requirements Met? Y**	
Monitoring Period:	**October**	**2024**		**Check box if no CSO discharge occurred for the month:**	☐
Design Peak Hourly Flow (MGD):	**1.92**	**Design Average Flow (MGD):**	**1.08**		

Day of Month	Comments (further explanation as to why each CSO event occurred)
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Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	Telephone
Terry Kongar Operator Certified	260-589-8526

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Signature of Principal Executive Officer or Authorized Agent	Date *(mm/dd/yy)*
Terry Kongar	11/25/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**								**Page 1 of 2**					**Permit Number:**	**IN0021369**							
Facility:	**Berne WWTP**													**Public Notification Requirements Met?**	**Y**							
Monitoring Period:	**November**	**2024**												**Check box if no CSO discharge occurred for the month:**	☐							
Design Peak Hourly Flow (MGD):	**1.92**	**Design Average Flow (MGD):**	**1.08**						**Measured/Metered (M) or Estimated (E) must be specified**													
WWTP Influent Data			**Precipitation Data**					**CSO Outfall No. 046**						**CSO Outfall No. [#]**								
Day of Month	**Average Daily Flow (MGD)**	**Peak Hourly Flow (MGD)**	**Time Precip. Began (am/pm)**	**Precip. Duration (Hours)**	**Total Daily Precip. (Inches)**	**Peak Intensity (Inch/hr)**	**Measurement Interval (hr, 30 m, 15 m)**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**			
1	0.42	0.04																				
2	0.45	0.05																				
3	0.40	0.04																				
4	0.48	0.05			0.14																	
5	0.91	0.09	8:00 PM	2.00	0.64	4.10	15 min															
6	0.84	0.08	12:00 AM	4.00	0.20	0.90	15 min	12:30 AM	M	5.00	M	0.05	M									
7	0.50	0.05																				
8	0.46	0.05																				
9	0.48	0.05																				
10	1.03	0.10	2:00 AM	3.00	0.48	1.40	15 min	6:00 AM	M	1.00	M	0.01	M									
11	0.52	0.05																				
12	0.51	0.05																				
13	0.61	0.06	6:00 PM	2.00	0.24	0.20	15 min															
14	1.18	0.12	3:00 AM	2.00	0.26	0.80	15 min															
15	0.62	0.06																				
16	0.50	0.05																				
17	0.49	0.05																				
18	0.54	0.05			0.02																	
19	0.72	0.07			0.19																	
20	0.72	0.07	8:00 AM	2.00	0.20	0.30	15 min															
21	0.50	0.05																				
22	0.26	0.03			0.04																	
23	0.20	0.02			0.01																	
24	0.45	0.05																				
25	0.48	0.05			0.02																	
26	0.45	0.05																				
27	0.83	0.08	4:00 PM	3.00	0.31	0.15	15 min															
28	0.67	0.07			0.02																	
29	0.51	0.05																				
30	0.55	0.06																				
Totals:	17.28			18.00	2.77			2	Days	6.00		0.06		0	Days	0.00		0				

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	**Telephone**
Terry Kongar Certified Operator	260-589-8526

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Signature of Principal Executive Officer or Authorized Agent	**Date *(mm/dd/yy)***
Terry Kongar Certified Operator	12/11/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**				**Page: 2 of 2**	**Permit Number: IN0021369**	
Facility:	**Berne WWTP**				**Public Notification Requirements Met? Y**		
Monitoring Period:	**November**	**2024**			**Check box if no CSO discharge occurred for the month:**		☐
Design Peak Hourly Flow (MGD):	**1.92**	**Design Average Flow (MGD):**	**1.08**				

Day of Month	Comments (further explanation as to why each CSO event occurred)
1	
2	
3	
4	
5	
6	System Full
7	
8	
9	
10	System Full
11	
12	
13	
14	
15	
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18	
19	
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21	
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24	
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26	
27	
28	
29	
30	
31	

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	**Telephone**
Terry Kongar Certified Operator	260-589-8526

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Signature of Principal Executive Officer or Authorized Agent	**Date *(mm/dd/yy)***
Terry Kongar Certified Operator	12/11/24

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**								**Page 1 of 2**						**Permit Number:**	**IN0021369**						
Facility:	**Berne WWTP**														**Public Notification Requirements Met?**	**Y**						
Monitoring Period:	**December**	**2023**													**Check box if no CSO discharge occurred for the month:**	☐						
Design Peak Hourly Flow (MGD):	**1.92**	**Design Average Flow (MGD):**	**1.08**						**Measured/Metered (M) or Estimated (E) must be specified**													
WWTP Influent Data			**Precipitation Data**					**CSO Outfall No. 046**							**CSO Outfall No. [#]**							
Day of Month	**Average Daily Flow (MGD)**	**Peak Hourly Flow (MGD)**	**Time Precip. Began (am/pm)**	**Precip. Duration (Hours)**	**Total Daily Precip. (Inches)**	**Peak Intensity (Inch/hr)**	**Measurement Interval (hr, 30 m, 15 m)**	**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**		**Time Discharge Began**	**M or E**	**Event Duration (Hours)**	**M or E**	**Event Discharge (MG)**	**M or E**		
1	0.51	0.05																				
2	0.54	0.05																				
3	0.56	0.06																				
4	0.50	0.05			0.01																	
5	0.50	0.05																				
6	0.53	0.05																				
7	0.53	0.05																				
8	0.69	0.07			0.10																	
9	1.05	0.11	12:00 AM	3.00	0.37	0.58	15 min															
10	0.62	0.06																				
11	0.54	0.05																				
12	0.64	0.06																				
13	0.47	0.05																				
14	0.67	0.07	12:00 PM	3.00	0.31	0.30	15 min	2:00 PM	M	4.00	M	0.01	M									
15	0.95	0.10	12:00 AM	2.00	0.32	0.25	15 min															
16	1.04	0.10	7:00 AM	2.00	0.21	0.56	15 min															
17	0.70	0.07																				
18	0.55	0.06																				
19	0.50	0.05																				
20	0.62	0.06			0.13																	
21	0.50	0.05																				
22	0.45	0.05																				
23	0.45	0.05			0.03																	
24	0.50	0.05																				
25	0.45	0.05			0.03																	
26	0.51	0.05			0.02																	
27	0.58	0.06			0.11																	
28	0.55	0.06																				
29	1.82	0.18	3:00 AM	3.00	0.66	0.50	15 min	5:00 AM	M	0.29	M	19	M									
30	0.94	0.90						12:00 AM	M	0.22	M	4	M									
31	2.11	0.21	4:00 AM	4.00	0.84	1.54	15 min	8:00 AM	M	0.24	M	16	M									
Totals:	21.57			17.00	3.14			4	Days	4.75		39.01			0	Days	0.00		0			

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	**Telephone**
Terry Kongar Certified Operator	260-589-8526

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Signature of Principal Executive Officer or Authorized Agent	**Date *(mm/dd/yy)***
Terry Kongar	01/27/25

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	**City of Berne**			**Page: 2 of 2**	**Permit Number: IN0021369**
Facility:	**Berne WWTP**			**Public Notification Requirements Met? Y**	
Monitoring Period:	**December**	**2023**		**Check box if no CSO discharge occurred for the month:**	☐
Design Peak Hourly Flow (MGD):	**1.92**	**Design Average Flow (MGD):**	**1.08**		

Day of Month	Comments (further explanation as to why each CSO event occurred)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	System Full
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23	
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25	
26	
27	
28	
29	System Full
30	System Full
31	System Full

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	Telephone
Terry Kongar Certified Operator	260-589-8526

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Signature of Principal Executive Officer or Authorized Agent	Date *(mm/dd/yy)*
Terry Kongar	01/27/25

Appendix D

Supporting CSO LTCP Documents

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • Fax (317) 233-6647 • www.idem.IN.gov

Mike Braun
Governor

Clint Woods
Commissioner

April 21, 2025

VIA ELECTRONIC MAIL

The Honorable Gregg Sprunger, Mayor
City of Berne
158 West Franklin Street
Berne, Indiana 46711

Dear Mayor Sprunger:

Re: CSO 046 Work Plan & Long Term Control Plan
Implementation Schedule Amendment Review
City of Berne
NPDES Permit No. IN0021369
Agreed Order No. 2004-14217-W
Adams County

The Indiana Department of Environmental Management (IDEM) Office of Water Quality (OWQ) has conducted a review of the City of Berne's letter describing the Combined Sewer Overflow (CSO) 046 Work Plan and amended CSO Long Term Control Plan (LTCP) Implementation Schedule dated March 28, 2025. With this letter, IDEM acknowledges receipt of the CSO 046 Work Plan and grants approval of the amended CSO LTCP Implementation Schedule (copy enclosed).

The City of Berne's CSO 046 Work Plan documents actions the City has taken to investigate and identify sanitary sources of wastewater that remain connected to CSO 046 in addition to actions the City will take to remove these sources. Actions to remove the sanitary sources will be conducted during Phase IV of the CSO LTCP and have been included in the CSO LTCP Implementation Schedule. In addition, the City proposes to conduct optical brightener testing at three separate locations that contribute flow to CSO 046 to ensure all remaining sanitary sources have been removed from the CSO 046 collection area. Optical brightener testing will be conducted after completion of construction of Phase IV of the LTCP and has been included in the CSO LTCP Implementation Schedule.

In addition, the City of Berne has added "Permitting & Bidding" to the "Final Design" task of Phase IV of the LTCP. This addition has shifted the completion of Final Design, Permitting, & Bidding for Phase IV from December 2024 to May 2025. However, this schedule update does not affect subsequent LTCP task completion dates or the overall schedule length.

The amendment to the CSO LTCP Implementation Schedule does not change the level of control approved in the LTCP which is to capture and provide full treatment of flows from storm events up to and including the 10-year,1-hour design storm. IDEM CSO staff will share the amended CSO LTCP Implementation Schedule with IDEM OWQ Enforcement Staff to have the schedule enforceable under the current Agreed Order Case No. 2004-14217-W. The City of Berne shall implement the schedule accordingly. All other terms and conditions of the Agreed Order remain in effect.

Please contact Allie Gates at 317/232-5114 or by e-mail at agates1@idem.in.gov if you have any questions regarding this letter.

Sincerely,

Leigh Voss

Leigh Voss, Chief
Municipal NPDES Permits Section
Office of Water Quality

Enclosure
cc: Terry Kongar, Superintendent
Brady Dryer, Commonwealth Engineers, Inc.
Ben Adams, Commonwealth Engineers, Inc.
Aletha Lenahan, IDEM Enforcement Case Manager
Jeremy Waite, IDEM Wastewater Inspector

Table 0-2: Proposed CSO LTCP Update Schedule

Phase	Project	Task	Completion Date[1]
Completed Milestones			
Phase I	Parr Road/Welty/Compromise Washington Sanitary Interceptor		2005
	Parkway and Hendricks Street Storm Sewer Separation		2005
	Hendricks Street Sanitary Sewer Extension		2006
	South Trunk Line and Retention Basin		2007
	Post Construction Monitoring		2010
Phase II	Retention Pond Rehabilitation		2006
	Van Buren to Linn Grove to Bryan Street Storm Sewer Separation and U.S. 27		2007
	Sprunger Pond Rehab		2009
	Lehman Pond		2009
	Buckeye and Columbia Street Sanitary Rebuild		2011
	Franklin and Hendricks Street Storm Sewer and Franklin Street Sanitary Sewer to Alley west of Lehman and other small projects		2011
	WWTP Upgrades Projects		2014
	Van Buren and Lynn Grove Area Sanitary Sewer Rebuild		2017-2018
	Increase Pumping Capacity to WWTP		2011-2012
	Sherwane Addition Storm Sewer		2020-2021
	Storm Sewer North of Poplar Ave and west of U.S. 27		2020-2021
	Storm Sewer/Sanitary Sewer cross-connections south of Lehman Park		2021
	WWTP Disk Filter Replacement		2021
Phase III[2]	Water Street Separation Alley South of Main Street Sewer Separation WWTP – Mechanical Fine Screen Comminutor/Grinder Unit at Main Street Lift Station East Franklin Street Sewer Extensions	Prepare PER & Evaluate Funding Options	January 22, 2018
		Final Design	2019
		Construction	February 24, 2020 – November 23, 2020
Post Construction Monitoring & Hydraulic Model Update			2021-2022

Phase	Project	Task	Completion Date[1]
Future Milestones			
CSO LTCP Amendment			April 2024
Phase IV[3]	Storage and Pumping Project: • Increase Parr Road Lift Station pumping capacity from 2.016 MGD to 3.50 MGD • Replace existing 0.936 MGD Main Street Lift Station with a 2.50 MGD dry weather/5.00 MGD peak wet weather capacity lift station • Install 0.30 MG wet weather storage • Install new 15-inch force main to the WWTP Main Street Collection System Improvements: • W. Van Buren Street – sewer size increase from 8" to 12" diameter from west of S. Schug Street to S. Harrison Street • W. Van Buren Street – sewer size increase from 10" to 12" diameter from S. Harrison Street to Lehman Street • W. Van Buren Street – sewer size increase from 12" to 18" diameter from Lehman Street to Hendricks Street • Hendricks Street – sewer size increase from 12" to 18" diameter from W. Van Buren Street to W. Franklin Street • W. Franklin Street – sewer size increase from 12" to 24" diameter from Hendricks Street to S. Jefferson Street • S. Jefferson Street – sewer size increase from 15" to 24" diameter from W. Franklin Street to alley south of W Main Street CSO 046 Investigation & Sanitary Source Elimination: • Indiana/Columbia St. (west), Water St. (north), Jefferson St. (east) and Franklin St. (south)	Prepare PER & Evaluate Funding Options	2023 – March 2024
		Final Design, Permitting, & Bidding	April 2024 – ~~December 2024~~ May 2025
		Construction	June 2025 - 2026
		South Trunk Line Optical Brightener Testing (Location #1)	2025
		Optical Brightener Testing (Locations #2 & #3)	2026
		Post-Construction Monitoring (Level of Control)	2027

[1] Compliance milestones noted in the implementation schedule above shall be completed on or before December 31st of the corresponding year.

[2] The implemented Phase I of the August 2017 CSO LTCP Update has been renamed to Phase III to avoid confusion with previously implemented projects.

[3] Phase II of the approved August 2017 CSO LTCP Update has been replaced by Phase IV of the 2024 CSO LTCP Update in order to avoid confusion with previously implemented projects.

Table 0-2: Proposed CSO LTCP Update Schedule

Phase	Project	Task	Completion Date[1]
Completed Milestones			
Phase I	Parr Road/Welty/Compromise Washington Sanitary Interceptor		2005
	Parkway and Hendricks Street Storm Sewer Separation		2005
	Hendricks Street Sanitary Sewer Extension		2006
	South Trunk Line and Retention Basin		2007
	Post Construction Monitoring		2010
Phase II	Retention Pond Rehabilitation		2006
	Van Buren to Linn Grove to Bryan Street Storm Sewer Separation and U.S. 27		2007
	Sprunger Pond Rehab		2009
	Lehman Pond		2009
	Buckeye and Columbia Street Sanitary Rebuild		2011
	Franklin and Hendricks Street Storm Sewer and Franklin Street Sanitary Sewer to Alley west of Lehman and other small projects		2011
	WWTP Upgrades Projects		2014
	Van Buren and Lynn Grove Area Sanitary Sewer Rebuild		2017-2018
	Increase Pumping Capacity to WWTP		2011-2012
	Sherwane Addition Storm Sewer		2020-2021
	Storm Sewer North of Poplar Ave and west of U.S. 27		2020-2021
	Storm Sewer/Sanitary Sewer cross-connections south of Lehman Park		2021
	WWTP Disk Filter Replacement		2021
Phase III[2]	Water Street Separation Alley South of Main Street Sewer Separation WWTP – Mechanical Fine Screen Comminutor/Grinder Unit at Main Street Lift Station East Franklin Street Sewer Extensions	Prepare PER & Evaluate Funding Options	January 22, 2018
		Final Design	2019
		Construction	February 24, 2020 – November 23, 2020
Post Construction Monitoring & Hydraulic Model Update			2021-2022

Phase	Project	Task	Completion Date[1]
Future Milestones			
CSO LTCP Amendment			April 2024
Phase IV[3]	Storage and Pumping Project: • Increase Parr Road Lift Station pumping capacity from 2.016 MGD to 3.50 MGD • Replace existing 0.936 MGD Main Street Lift Station with a 2.50 MGD dry weather/5.00 MGD peak wet weather capacity lift station • Install 0.30 MG wet weather storage • Install new 15-inch force main to the WWTP Main Street Collection System Improvements: • W. Van Buren Street – sewer size increase from 8" to 12" diameter from west of S. Schug Street to S. Harrison Street • W. Van Buren Street – sewer size increase from 10" to 12" diameter from S. Harrison Street to Lehman Street • W. Van Buren Street – sewer size increase from 12" to 18" diameter from Lehman Street to Hendricks Street • Hendricks Street – sewer size increase from 12" to 18" diameter from W. Van Buren Street to W. Franklin Street • W. Franklin Street – sewer size increase from 12" to 24" diameter from Hendricks Street to S. Jefferson Street • S. Jefferson Street – sewer size increase from 15" to 24" diameter from W. Franklin Street to alley south of W Main Street CSO 046 Investigation & Sanitary Source Elimination: • Indiana/Columbia St. (west), Water St. (north), Jefferson St. (east) and Franklin St. (south)	Prepare PER & Evaluate Funding Options	2023 – March 2024
		Final Design, Permitting, & Bidding	April 2024 – ~~December 2024~~ May 2025
		Construction	June 2025 - 2026
		South Trunk Line Optical Brightener Testing (Location #1)	2025
		Optical Brightener Testing (Locations #2 & #3)	2026
		Post-Construction Monitoring (Level of Control)	2027

[1] Compliance milestones noted in the implementation schedule above shall be completed on or before December 31st of the corresponding year.

[2] The implemented Phase I of the August 2017 CSO LTCP Update has been renamed to Phase III to avoid confusion with previously implemented projects.

[3] Phase II of the approved August 2017 CSO LTCP Update has been replaced by Phase IV of the 2024 CSO LTCP Update in order to avoid confusion with previously implemented projects.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Brian C. Rockensuess
Commissioner

June 13, 2024

VIA ELECTRONIC MAIL

The Honorable Gregg Sprunger, Mayor
City of Berne
158 West Franklin Street
Berne, Indiana 46711

Dear Mayor Sprunger:

Re: Long Term Control Plan Amendment Review
City of Berne
NPDES Permit No. IN0021369
Agreed Order No. 2004-14217-W
Adams County

The Indiana Department of Environmental Management (IDEM) Office of Water Quality (OWQ) has conducted a review of the City of Berne's Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP) Amendment originally received on April 19, 2024 and revised on May 3, 2024 and May 23, 2024.

The LTCP Amendment includes a revised Phase IV, which was previously referred to as Phase II in the current LTCP schedule, that will include improvements to the Parr Road Lift Station by increasing the pumping capacity from 2.016 MGD to 3.50 MGD; replacement of the Main Street Lift Station that includes dry weather pumping capacity of 2.5 MGD and wet weather pumping capacity of 5.0 MGD; installation of a 0.3 MG wet weather storage basin; installation of a new wet weather force main from the Main Street Lift Station to the WWTP; and implementation of collection system sewer size improvements within the Main Street Lift Station collection system. The dry weather pumping capacity at the Main Street Lift Station will pump through the existing 10-inch force main. The wet weather pumping capacity at the Main Street Lift Station will pump through a new 15-inch force main. These improvements will result in a combined peak wet weather pumping capacity of 8.5 MGD from the Main Street and Parr Road Lift Stations. This is a reduction from what was previously approved per the 2017 CSO LTCP Amendment. The 2017 CSO LTCP proposed 10.0 MGD wet weather pumping capacity from the Main Street Lift Station with no improvements to the Parr Road Lift station. In addition, the proposed 0.30 MG of wet weather storage is a reduction from the previously approved 1.05 MG wet weather storage.

IDEM raised concerns with the City and their consultant regarding the reduction in pumping capacity and wet weather storage and requested additional information to show how the selected alternative will meet the City's approved CSO level of control. The

consultant provided a Hydraulic Modeling Tech Memo that includes a description of the post construction monitoring conducted after completion of Phase III improvements in which rainfall/flow data was gathered to calibrate their hydraulic model. The hydraulic model was then used to evaluate potential alternatives for the final phase of the LTCP. IDEM has been assured that the selected alternatives will meet the City's CSO level of control based on these findings. If the City of Berne is found to not be meeting their approved CSO level of control upon full implementation, the City will have to perform additional work in a CSO Compliance Plan.

In addition, the 2024 CSO LTCP Amendment includes an updated schedule. Projects have been reorganized into four phases. The first three phases involved sewer separation and upgrades to the WWTP. These phases have been completed. The final Phase IV involves the previously noted storage and pumping projects and collection system improvements. The Phase IV - Prepare PER & Evaluate Funding Option was previously scheduled to be completed in 2023. However, the completion date for this milestone has been updated to March 2024 with this amendment. The completion dates of subsequent milestones and full implementation of the LTCP have not changed.

The LTCP update does not change the original CSO level of control approved on December 27, 2005, which is full capture and treatment of the 10-year, 1-hour design storm. One milestone date of the implementation schedule has changed, but the final projected completion date of the LTCP has not changed. Based on this information, IDEM has determined that the plan update is acceptable and approves the revised CSO projects and implementation schedule (LTCP schedule enclosed). IDEM CSO Staff shall coordinate this amended plan with IDEM OWQ Enforcement Staff. The amended LTCP implementation schedule shall supersede the schedule contained in the previously approved LTCP, and the City of Berne shall implement the LTCP in accordance with the amended LTCP implementation schedule.

Please direct any questions regarding this letter to Allie Gates at 317/232-5114 or by e-mail at agates1@idem.in.gov.

Sincerely,

Leigh Voss, Chief
Municipal NPDES Permits Section
Office of Water Quality

cc: Terry Kongar, Superintendent
Brady Dryer, Commonwealth Engineers, Inc.
Ben Adams, Commonwealth Engineers, Inc.
Aletha Lenahan, IDEM Enforcement Case Manager
Jeremy Waite, IDEM Wastewater Inspector

Table 0-2: Proposed CSO LTCP Update Schedule

Phase	Project	Task	Completion Date[1]
Completed Milestones			
Phase I	Parr Road/Welty/Compromise Washington Sanitary Interceptor		2005
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	Van Buren to Linn Grove to Bryan Street Storm Sewer Separation and U.S. 27		2007
	Sprunger Pond Rehab		2009
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	Franklin and Hendricks Street Storm Sewer and Franklin Street Sanitary Sewer to Alley west of Lehman and other small projects		2011
	WWTP Upgrades Projects		2014
	Van Buren and Lynn Grove Area Sanitary Sewer Rebuild		2017-2018
	Increase Pumping Capacity to WWTP		2011-2012
	Sherwane Addition Storm Sewer		2020-2021
	Storm Sewer North of Poplar Ave and west of U.S. 27		2020-2021
	Storm Sewer/Sanitary Sewer cross-connections south of Lehman Park		2021
	WWTP Disk Filter Replacement		2021
Phase III[2]	Water Street Separation Alley South of Main Street Sewer Separation	Prepare PER & Evaluate Funding Options	January 22, 2018
	WWTP – Mechanical Fine Screen	Final Design	2019
	Comminutor/Grinder Unit at Main Street Lift Station East Franklin Street Sewer Extensions	Construction	February 24, 2020 – November 23, 2020
Post Construction Monitoring & Hydraulic Model Update			2021-2022

Phase	Project	Task	Completion Date[1]
Future Milestones			
CSO LTCP Amendment			April 2024
Phase IV[3]	Storage and Pumping Project: • Increase Parr Road Lift Station pumping capacity from 2.016 MGD to 3.50 MGD • Replace existing 0.936 MGD Main Street Lift Station with a 2.50 MGD dry weather/5.00 MGD peak wet weather capacity lift station • Install 0.30 MG wet weather storage • Install new 15-inch force main to the WWTP Main Street Collection System Collection System Improvements: • W. Van Buren Street – sewer size increase from 8” to 12” diameter from west of S. Schug Street to S. Harrison Street • W. Van Buren Street – sewer size increase from 10” to 12” diameter from S. Harrison Street to Lehman Street • W. Van Buren Street – sewer size increase from 12” to 18” diameter from Lehman Street to Hendricks Street • Hendricks Street – sewer size increase from 12” to 18” diameter from W. Van Buren Street to W. Franklin Street • W. Franklin Street – sewer size increase from 12” to 24” diameter from Hendricks Street to S. Jefferson Street • S. Jefferson Street – sewer size increase from 15” to 24” diameter from W. Franklin Street to alley south of W Main Street	Prepare PER & Evaluate Funding Options	2023 – March 2024
		Final Design	April 2024 – December 2024
		Construction	2025-2026
		Post-Construction Monitoring	2027

[1] Compliance milestones noted in the implementation schedule above shall be completed on or before December 31st of the corresponding year.

[2] The implemented Phase I of the August 2017 CSO LTCP Update has been renamed to Phase III to avoid confusion with previously implemented projects.

[3] Phase II of the approved August 2017 CSO LTCP Update has been replaced by Phase IV of the 2024 CSO LTCP Update in order to avoid confusion with previously implemented projects.

City of Berne

Settled 1852
158 W. Franklin Street • Berne, Indiana 46711
(260) 589-8526
Gregg A. Sprunger, Mayor
Kalla J. Caffee, Clerk-Treasurer

City Council
Kelly A. Amstutz
Ronald N. Dull
Wes F. Haight
Rodney E. Mason
Curtis L. Wurster

April 19, 2024

Indiana Department of Environmental Management
Office of Water Quality
Mail Code 65-42, Room 1255 IGCN
100 North Senate Avenue
Indianapolis, IN 46204-2251

ATTN: Ms. Allie Gates
Municipal Permit Manager
Municipal Permits Section

RE: City of Berne
CSO LTCP Update April 2024
Phase II Sewer Separation Scope Changes
Agreed Order Case No. 2004-14217-W
NPDES No. IN0021369
Adams County

Dear Ms. Gates,

The City of Berne is pleased to submit the enclosed Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP) Update to the Indiana Department of Environmental Management (IDEM) Office of Water Quality (OWQ) for review. Specifically, changes to Phase II (Identified as Phase IV in the most recent update) of the most recent CSO LTCP Update have been condensed in the attached Executive Summary document that includes several key factors as follows:

- Consistency with the approved August 2017 CSO LTCP Update and compliance with IDEM OWQ's Nonrule Policy Document Water-016: CSO Treatment Facilities, whereby full capture and treatment of the 10-year, 1-hour design storm will be obtained.
- Improvements to the Parr Road Lift Station by increasing the pumping capacity from 2.016 MGD to 3.50 MGD.
- Construction of a new Main Street Lift Station that includes dry weather pumping, wet weather pumping, and storage. The dry weather pumping capacity will be increased from 0.936 MGD to 2.50 MGD and pump through the existing 10-inch force main. The proposed wet weather pumping capacity will be 5.00 MGD and pump through a new 15-inch force main. The wet weather storage unit will have a capacity of 0.30 MG. These improvements

are a decrease in the projected 10.0 MGD pumping and 1.05 MG storage requirements of the approved 2017 CSO LTCP.

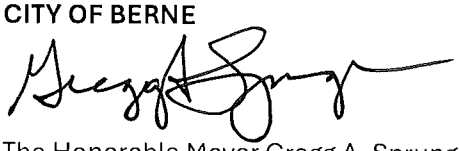
- Implementation of collection system sewer size improvements within the Main Street Lift Station Collection System to accommodate future growth and to ensure wet weather conveyance of the planning period flows to the Main Street Lift Station.
- CSO LTCP completion date of December 2026, which follows the completion date of the approved 2018 CSO LTCP.

As required by the IDEM OWQ Permits Branch for CSO LTCP update submittals, we offer the following certification statement:

I certify under penalty of law that this document and all the attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for the gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

We sincerely appreciate IDEM OWQ's cooperation with the City on the preparation of this update and throughout the implementation of the CSO LTCP. If you should have any questions on the matters discussed above, please contact Brady Dryer of Commonwealth Engineers, Inc. by email at bdryer@contactcei.com or by phone at (317) 888-1177.

Sincerely,
CITY OF BERNE



The Honorable Mayor Gregg A. Sprunger

cc: Terry Kongar, Wastewater Superintendent – City of Berne
Kurt Dailey, Workforce Manager – City of Berne
Ben Adams, P.E., Commonwealth Engineers, Inc.
Brady Dryer, Commonwealth Engineers, Inc.

EXECUTIVE SUMMARY

0.0 Purpose & Background

The City of Berne, Indiana, located in Adams County, is required by NPDES Permit No. IN0021369 to implement a Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP) for the purpose of controlling discharges from its Combined Sewer System (CSS) and improving the water quality of the Sprunger Ditch. The purpose of this CSO LTCP Update is as follows:

- Define the level of control for CSO mitigation as compliance with IDEM's Non-Rule Policy Document (NPD) Water-016: CSO Treatment Facilities as this has not formally been documented in previous CSO LTCP Updates and nor was this option available when the CSO LTCP was reviewed and approved in 2005;
- Provide an updated alternatives evaluation utilizing a calibrated hydraulic collection system model so that adequate assurance for achieving compliance with NPD Water-016: CSO Treatment Facilities is achieved;
- Update the associated project costs; and
- Revisit the Financial Capability Analysis to support the duration of the implementation of the remainder of the LTCP.

Initially, the City of Berne submitted its original CSO LTCP on August 2002 with an addendum that followed in December 2003. On November 8, 2004, IDEM sent out a Notice of Violation (NOV) and proposed Agreed Order No. 2004-14217-W (Appendix B) for overflows from various manholes throughout the combined and sanitary collection system and dry weather overflows from CSO 006. The CSO LTCP was then revised to include projects to mitigate the manhole overflows and the dry weather overflows from its CSOs. The revised CSO LTCP was submitted to IDEM for review on April 15, 2005, and was approved by IDEM via correspondence on December 27, 2005, and formally through the modification of NPDES Permit No. IN0021369 on February 26, 2006. The approved CSO LTCP proposed to eliminate CSOs through sewer separation in combined sewer areas and to maximize the conveyance of residual wet weather flows to the WWTP for treatment. Ammonia removal requirements were later added to the City's NPDES permit resulting in the prioritization of wastewater treatment plant (WWTP) improvements and capacity expansion that allowed for additional treatment of wet weather flows. The CSO LTCP was then revised to include projects to mitigate the manhole overflows and the dry weather overflows from its CSOs. The revised CSO LTCP was submitted to IDEM for review on September 1, 2017 (Revised December 1, 2017, and December 28, 2017) and was approved by IDEM via correspondence on January 22, 2018, and formally through the modification of NPDES Permit No. IN0021369 on August 26, 2021. A general synopsis of the CSO LTCP schedule, including final and projected completion dates, is provided in **Table 0-1: Current CSO LTCP Schedule** on the following page.

Table 0-1: Current CSO LTCP Schedule

Phase	Project	Year	Task
I [a]	Sewer Separation	2018 [b] 2019 [b] 2020 – 2021 [b]	Prepare PER & Evaluate Funding Options Design & Permitting Construction
2022 - Post Construction Monitoring, CSO LTCP, & CSOOP Review/Update			
II [a]	Storage & Pumping Project	2023 [b] 2024 [b] 2025 – 2026 [b]	Prepare PER & Evaluate Funding Options Final Design Construction
2027 - Post Construction Monitoring & CSOOP Review/Update			

[a] The City of Berne will evaluate Green Infrastructure opportunities as part of the planning and design activities during each phase of the CSO LTCP.

b Compliance milestones noted in the implementation schedule above shall be completed on or before December 31st of the corresponding year.

0.1 Consideration of Existing Uses and Sensitive Areas

The City of Berne, Indiana currently has one (1) permitted CSO (046) that is authorized to discharge under the provisions of Attachment A in NPDES Permit No. IN0021369 to Sprunger Ditch. It should be noted that the diversion structure is considered CSO 004 and the outfall at Sprunger Ditch is identified as Outfall 046. CSO 004 and CSO 006 previously shared the same outfall location with separate upstream diversion structures and combined sewer areas. The CSO 006 sewer basin was later separated and designated as a separate storm sewer system resulting in the elimination of the CSO 006 outfall from Attachment A of the City's NPDES Permit. As the CSO 004 diversion structure is still active, and the outfall and subsequent discharge is comprised of both storm water from the formerly combined CSO 006 sewer basin and the combined sewer diversion CSO 004, the outfall was denoted and permitted as CSO 046. **Figure 0-1: CSO Location Map** depicts the location of the City's CSO diversion structure and outfall.

Given that all waters of Indiana are designated as primary contact recreation, the existing uses were preliminarily evaluated for Sprunger Ditch to determine if the designated use is the existing use. Primary contact recreation does not typically occur in Sprunger Ditch particularly during and immediately following wet weather events. In addition, the location of CSO outfalls in proximity to sensitive areas was evaluated. For Sprunger Ditch, it was found that no sensitive areas such as habitat for threatened or endangered species; primary contact recreational areas such as beaches and other swimming areas; drinking water source waters; or Outstanding State Resource Waters/Outstanding National Resource Waters exist on the receiving stream.

0.2 Public Participation

During the development of the CSO LTCP, several meetings were held prior to the first submittal in 2005. The City has been actively involved in sewer separation projects throughout the 2000s. Generally, these separation projects have resulted in public awareness regarding the City's aging infrastructure. Other projects, including the most recent upgrade to the WWTP, were funded by the Indiana Finance Authority's State Revolving Fund (IFA SRF) and were presented at a community-wide public hearing.

On August 16, 2017, a representative of Commonwealth Engineers, Inc., met with the Citizen Advisory Committee (CAC) to present findings of the newest CSO LTCP Update and to discuss various project alternatives. A second meeting, held August 24, 2017, was held for additional discussion of the project alternatives. The August 2017 CSO LTCP recommended alternative was selected at this meeting. An IFA SRF meeting to present the Phase III LTCP Improvements Preliminary Engineering Report (PER) was held September 9, 2019. The City held a meeting on January 27, 2020, to adopt a resolution to apply for funding for the Phase III LTCP Improvements projects. The City used both meetings as opportunities to discuss the CSO LTCP and the projects being implemented.

As CSO LTCP projects are implemented, the City and CAC consistently use project status updates to remind the public of the City's CSO mitigation efforts and the importance of reducing CSOs. Most recently, the results of the post-construction monitoring and evaluation of future LTCP alternatives and estimated project costs were presented to City Council on April 24, 2023 as well as to the Storm Water Utility Board on May 5, 2023. The City followed up by coordinating on rate impact with their financial advisor and the results of this preliminary rate analysis were presented to City Council on October 11, 2023. Another meeting with City Council to discuss moving forward with the Phase IV project was conducted with CEI and Bakertilly on February 12, 2024 and the City authorized the development of a formal PER to fund the Phase IV improvements to submit to SRF. The Phase IV PER was submitted to IFA SRF on March 28, 2024, with a public hearing adopting the Phase IV PER scheduled for April 22, 2024. The City has also maintained public participation activities throughout the implementation of the approved CSO LTCP, including the posting of signs at the CSO outfall and the publication of an annual CSO notification in the local newspaper. Future opportunities for public notice and outreach will be abundant moving forward with the financing, bidding, and construction of Phase IV of the CSO LTCP.

0.3 Collection System Characterization, Monitoring & Modeling

During the Post Construction Monitoring of the LTCP – Phase III Improvements, an effort to further understand the City of Berne's Combined Sewer System response to wet weather events, flow monitoring of the combined sewer collection system and overflow regulator was completed from April 2022 to July 2022. Temporary flow meters were installed in combined and sanitary sewers at eleven (11) locations throughout the system correlating to select sub-basins. This temporary flow metering data coupled with data collected from Berne's permanent CSO flow meter was used to quantify base dry weather flow, peak wet weather flow, including the amount of outflow at the CSO for the purposes of developing planning level CSO mitigation alternatives and costs for the CSO LTCP Update. The data gathered was reviewed and subsequently utilized to expand, update and calibrate a hydraulic model of the collection system using EPA SWMM5 software.

The calibrated model was simulated with a one (1) year, one (1) hour storm event and a ten (10) year, one (1) hour storm event. The model results indicate that the collection system currently does not have the capacity to collect and transport either of these storm events. The calibrated model was then utilized to evaluate planning-level alternative solutions to eliminate potential CSOs up to the 10-year, 1-hour design storm. The alternatives presented in Section 0.5 of this report are the alternatives developed from this evaluation.

SCALE: 1"=300'

300' 150' 0 300'

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CSO LOCATION MAP

FIGURE

0-1

0.4 Maximization of Treatment at the Wastewater Treatment Plant

The existing wastewater treatment plant (WWTP) consists of the following: a partial mix aerated lagoon, secondary lagoon, four (4) submerged activated growth reactors, phosphorus removal via chemical addition, disc filters and ultraviolet light disinfection. The facility has a design capacity of 1.08 million gallons per day (MGD) and a peak design flow capacity of 1.92 MGD. Wastewater flow from Berne is transported to the WWTP from the Main Street Lift Station and Parr Road Lift Station via a 10-inch force main and 14-inch force main, respectfully. The Class II WWTP also receives flow from the Town of Monroe via a 6-inch force main. All incoming flows into the WWTP are directed to Lagoon No. 1. Lagoon No. 1 is a partial-mix lagoon with fine bubble diffusers. A mechanical fine screen removes debris from treatment water flow prior to ammonia-nitrogen removal. Ammonia-nitrogen removal is achieved by using the Nexom OPTAER Treatment Process that incorporates the Submerged Attached Growth Reactor (SAGR) technology. The system utilizes a clean uniform gravel bed for the nitrifying bacteria to attach and the biological process occurs as the wastewater passes through this bed. Aeration is also provided for the process through an aerated bubbling system underneath the gravel beds. Chemical injections and disc filtration are used to remove phosphorus. The effluent pump station is equipped with high and low service pumps and has an in-line ultraviolet disinfection system located on the effluent force main. Lagoon No. 2 is used in the winter months for additional detention time and treatment if necessary and during wet weather events that exceed the 1.92 MGD peak capacity to maintain flow through the SAGR system at or below the rated peak flow.

The summary of the WWTP unit processes and capacities presented above reflects the previously completed WWTP improvements project that was fully operational in July 2015 and the addition of the mechanical fine screen in May 2021. These improvements allowed Berne's WWTP to become compliant with their most recent NPDES permit's ammonia-nitrogen effluent limitations. The improvements also increased the design average daily flow to the plant from 0.683 MGD to 1.08 MGD with a design peak flow of 1.92 MGD.

0.5 Evaluation of CSO Control Alternatives

The most critical component to any CSO LTCP is the evaluation of alternatives to mitigate CSO discharges. Phase I projects from the approved 2005 CSO LTCP resulted in the elimination of CSOs 003 and 006 from the collection system. The As previously noted, IDEM NPD Water-016: CSO Treatment Facilities was utilized for all included and applicable sewer separation, wet weather conveyance and wet weather treatment alternatives evaluated herein. The approved August 2017 alternative was to involve sewer separation, wet weather storage, and pumping to the existing WWTP for treatment. All storage and pumping controls were to be designed to store the 10-year, 1-hour design storm flows at the WWTP for full treatment. CSO 046 would remain open to provide hydraulic relief of the collection system for storm events exceeding the 10-year, 1-hour design storm. Phase III of the August 2017 CSO LTCP was substantially completed

November 23, 2020, resulting in sewer separation of targeted areas. The 2024 CSO LTCP Update evaluated storage and pumping alternatives using IDEM OWQ's NPD Water-016: CSO Treatment Facilities for the capture, storage, and full treatment of flows up to and including the 10-year, 1-hour design storm, the same criteria used for the August 2017 CSO LTCP Update. The alternatives, a brief description, and total probable construction and non-construction costs are shown below:

- **Alternative 1A: Parr Road Lift Station Sewer Subsystem Improvements ($2,478,000)** – Increase 1,250 linear feet of 18-inch diameter sanitary sewer upstream of the lift Station to 48-inch diameter for storage during wet weather events.
- **Alternative 1B: Parr Road Lift Station Sewer Subsystem Improvements ($905,000)** – Add a 0.06 million gallon (MG) underground storage unit near the lift station site coupled with a wet weather weir structure and connective piping.
- **Alternative 1C: Parr Road Lift Station Sewer Subsystem Improvements ($855,300) –** Increase the Parr Road Lift Station pumping capacity from 2.016 MGD to 3.50 MGD.
- **Alternative 3A: Main Street Lift Station Improvements ($15,149,000)** – Replacement of the existing Main Street Lift Station with a new lift station capable of both wet and dry weather pumping, and installation of a new 24-inch wet weather force main to the WWTP. Dry weather pumping capacity is to be increased from 0.936 MGD to 2.50 MGD, and wet weather pumping capacity will be 13.00 MGD.
- **Alternative 3B: Main Street Lift Station Improvements ($19,790,000)** – Replacement of the existing Main Lift Station with a new lift station, wet weather storage, and high-rate treatment. The wet weather storage capacity will be 0.4 MG, and the high rate treatment will be sized to treat flows from the 1-year, 1-hour design storm to the 10-year, 1-hour design storm prior to discharge through the CSO.
- **Alternative 3C: Main Street Lift Station Improvements ($12,898,730)** – Replacement of the 0.936 MGD Main Street Lift Station with a new 2.50 MGD dry weather/5.0 MGD peak wet weather capacity lift station, installation of a new 15-inch force main to the WWTP, and wet weather storage. The wet weather storage capacity is 0.30 MG to capture flows associated with the 10-year, 1-hour design storm.

In addition to the alternatives described above, the City has identified **Alternative 2: Main Street Collection System Improvements**, as necessary to accommodate future growth and to ensure wet weather conveyance of planning period flows to the Main Street Lift Station. The following modifications are included in the cost estimates of Alternatives 3A, 3B, and 3C above:

- W. Van Buren Street – sewer size increase from 8" to 12" diameter from west of S. Schug Street to S. Harrison Street

- W. Van Buren Street – sewer size increase from 10” to 12” diameter from S. Harrison Street to Lehman Street
- W. Van Buren Street – sewer size increase from 12” to 18” diameter from Lehman Street to Hendricks Street
- Hendricks Street – sewer size increase from 12” to 18” diameter from W. Van Buren Street to W. Franklin Street
- W. Franklin Street – sewer size increase from 12” to 24” diameter from Hendricks Street to S. Jefferson Street
- S. Jefferson Street – sewer size increase from 15” to 24” diameter from W. Franklin Street to alley south of W Main Street

The alternatives presented above would be able to meet the CSO level of control of conveyance, storage, and full treatment of the 10-year, 1-hour design storm.

0.6 Recommended Alternative

The monetary, constructability, and long-term costs of the alternatives were evaluated for selecting an alternative with the best combination of those criteria. For the Parr Road Lift Station Subsystem Improvements, Alternatives 1A and 1B were eliminated due to high capital costs. Alternative 1C was selected because of its low cost as well as minimizing construction along the Parr Road corridor. Alternatives 3A and 3B were eliminated from the evaluation due to their high costs and invasive construction requirements. Alternative 3C was selected as it has the lowest cost and increases pumping capacity to the WWTP while minimizing storage requirements in lieu of wet weather treatment.

Based on the above criteria, the City of Berne has elected to proceed with the recommended **Alternative 1C: Parr Road Lift Station Sewer Subsystem Improvements** and **Alternative 3C: Main Street Lift Station Improvements.** These alternatives were evaluated and sized using the updated 2022 hydraulic model detailed in Section 0.3 of this report. The evaluated improvements will involve increasing the Parr Road Lift Station pumping capacity and replacing the Main Street Lift Station with increased capacities for dry and peak wet weather pumping for a combined 8.5 MGD peak wet weather capacity, which is a lower overall pumping capacity in comparison to the August 2017 CSO LTCP Update of 10.00 MGD. Additionally, a 0.30 MG wet weather storage facility at the Main Street Lift Station will also be constructed, which is smaller than the 1.05 MGD wet weather storage system proposed in the August 2017 CSO LTCP Update. The selected alternative also includes the Main Street Collection System Improvements described in the previous section. The total construction and non-construction costs for the selected alternative is $13,754,000. The following factors are the basis of the selected alternative:

- Compliance with the August 2017 CSO LTCP approval and IDEM OWQ’s Nonrule Policy Document Water-016: CSO Treatment Facilities, whereby full capture and treatment of the 10-year, 1-hour design storm will be obtained.

- Construction of a new 0.30 MG wet weather storage system negates the need for satellite wet weather treatment and maximizes the existing WWTP.
- Construction of the new Parr Road Lift Station, Main Street Lift Station, and Main Street sewers will accommodate future growth, and will include wet weather pumping to enable conveyance and treatment of the 10-year, 1-hour design storm at the WWTP.
- Reduction of Inflow/Infiltration in the collection system through sewer upsizing.
- Replacement of aging wastewater collection and conveyance infrastructure.
- Lowest total project cost and 20-year incremental treatment, operations, and maintenance cost for ratepayers of all the alternatives evaluated.

The proposed project schedule inclusive of completed and future milestones is summarized in **Table 0-2: Proposed CSO LTCP Update Schedule**. The selected alternative solution is also illustrated immediately following **Table 0-2** in **Figure 0-2: Alternative 1C - Parr Road Lift Station Sewer Subsystem Improvements, Figure 0-3: Alternative 2 - Main Street Lift Station Collection System Improvements,** and **Figure 0-4: Alternative 3C - Parr Road Lift Station Sewer Subsystem Improvements.**

Table 0-2: Proposed CSO LTCP Update Schedule

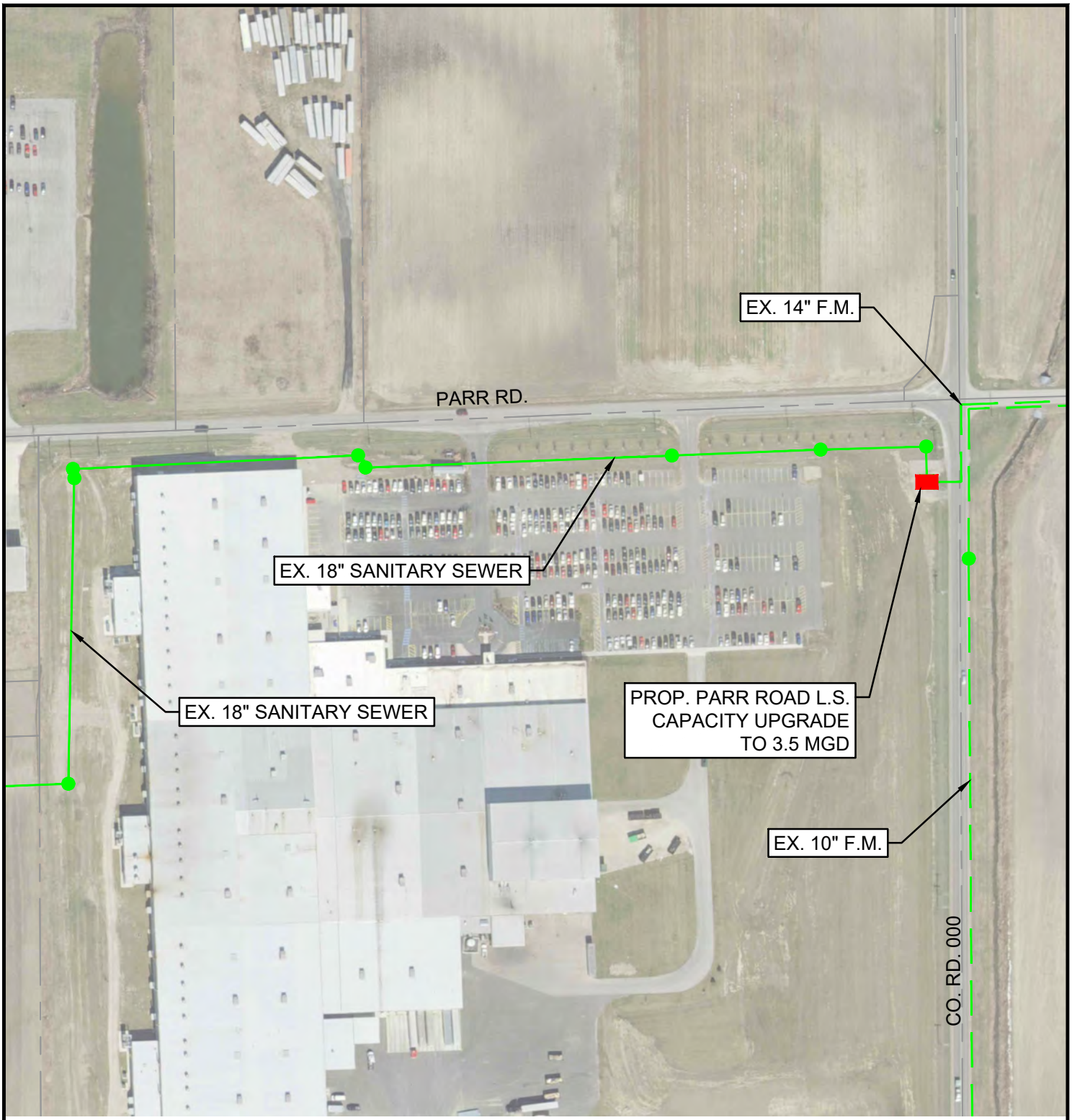
Phase	Project	Task	Completion Date[1]
Completed Milestones			
Phase I	Parr Road/Welty/Compromise Washington Sanitary Interceptor		2005
	Parkway and Hendricks Street Storm Sewer Separation		2005
	Hendricks Street Sanitary Sewer Extension		2006
	South Trunk Line and Retention Basin		2007
	Post Construction Monitoring		2010
Phase II	Retention Pond Rehabilitation		2006
	Van Buren to Linn Grove to Bryan Street Storm Sewer Separation and U.S. 27		2007
	Sprunger Pond Rehab		2009
	Lehman Pond		2009
	Buckeye and Columbia Street Sanitary Rebuild		2011
	Franklin and Hendricks Street Storm Sewer and Franklin Street Sanitary Sewer to Alley west of Lehman and other small projects		2011
	WWTP Upgrades Projects		2014
	Van Buren and Lynn Grove Area Sanitary Sewer Rebuild		2017-2018
	Increase Pumping Capacity to WWTP		2011-2012
	Sherwane Addition Storm Sewer		2020-2021
	Storm Sewer North of Poplar Ave and west of U.S. 27		2020-2021
	Storm Sewer/Sanitary Sewer cross-connections south of Lehman Park		2021
	WWTP Disk Filter Replacement		2021
Phase III[2]	Water Street Separation Alley South of Main Street Sewer Separation	Prepare PER & Evaluate Funding Options	January 22, 2018
	WWTP – Mechanical Fine Screen	Final Design	2019
	Comminutor/Grinder Unit at Main Street Lift Station East Franklin Street Sewer Extensions	Construction	February 24, 2020 – November 23, 2020
Post Construction Monitoring & Hydraulic Model Update			2021-2022

Phase	Project	Task	Completion Date[1]
Future Milestones			
CSO LTCP Amendment			April 2024
Phase IV[3]	Storage and Pumping Project: • Increase Parr Road Lift Station pumping capacity from 2.016 MGD to 3.50 MGD • Replace existing 0.936 MGD Main Street Lift Station with a 2.50 MGD dry weather/5.00 MGD peak wet weather capacity lift station • Install 0.30 MG wet weather storage • Install new 15-inch force main to the WWTP Main Street Collection System Collection System Improvements: • W. Van Buren Street – sewer size increase from 8” to 12” diameter from west of S. Schug Street to S. Harrison Street • W. Van Buren Street – sewer size increase from 10” to 12” diameter from S. Harrison Street to Lehman Street • W. Van Buren Street – sewer size increase from 12” to 18” diameter from Lehman Street to Hendricks Street • Hendricks Street – sewer size increase from 12” to 18” diameter from W. Van Buren Street to W. Franklin Street • W. Franklin Street – sewer size increase from 12” to 24” diameter from Hendricks Street to S. Jefferson Street • S. Jefferson Street – sewer size increase from 15” to 24” diameter from W. Franklin Street to alley south of W Main Street	Prepare PER & Evaluate Funding Options	2023 – March 2024
		Final Design	April 2024 – December 2024
		Construction	2025-2026
		Post-Construction Monitoring	2027

[1] Compliance milestones noted in the implementation schedule above shall be completed on or before December 31st of the corresponding year.

[2] The implemented Phase I of the August 2017 CSO LTCP Update has been renamed to Phase III to avoid confusion with previously implemented projects.

[3] Phase II of the approved August 2017 CSO LTCP Update has been replaced by Phase IV of the 2024 CSO LTCP Update in order to avoid confusion with previously implemented projects.



LEGEND

- EX. SANITARY SEWER
- EX. FORCE MAIN
- PROP. LIFT STATION UPGRADE

SCALE: 1"=200'

200' 0 200'

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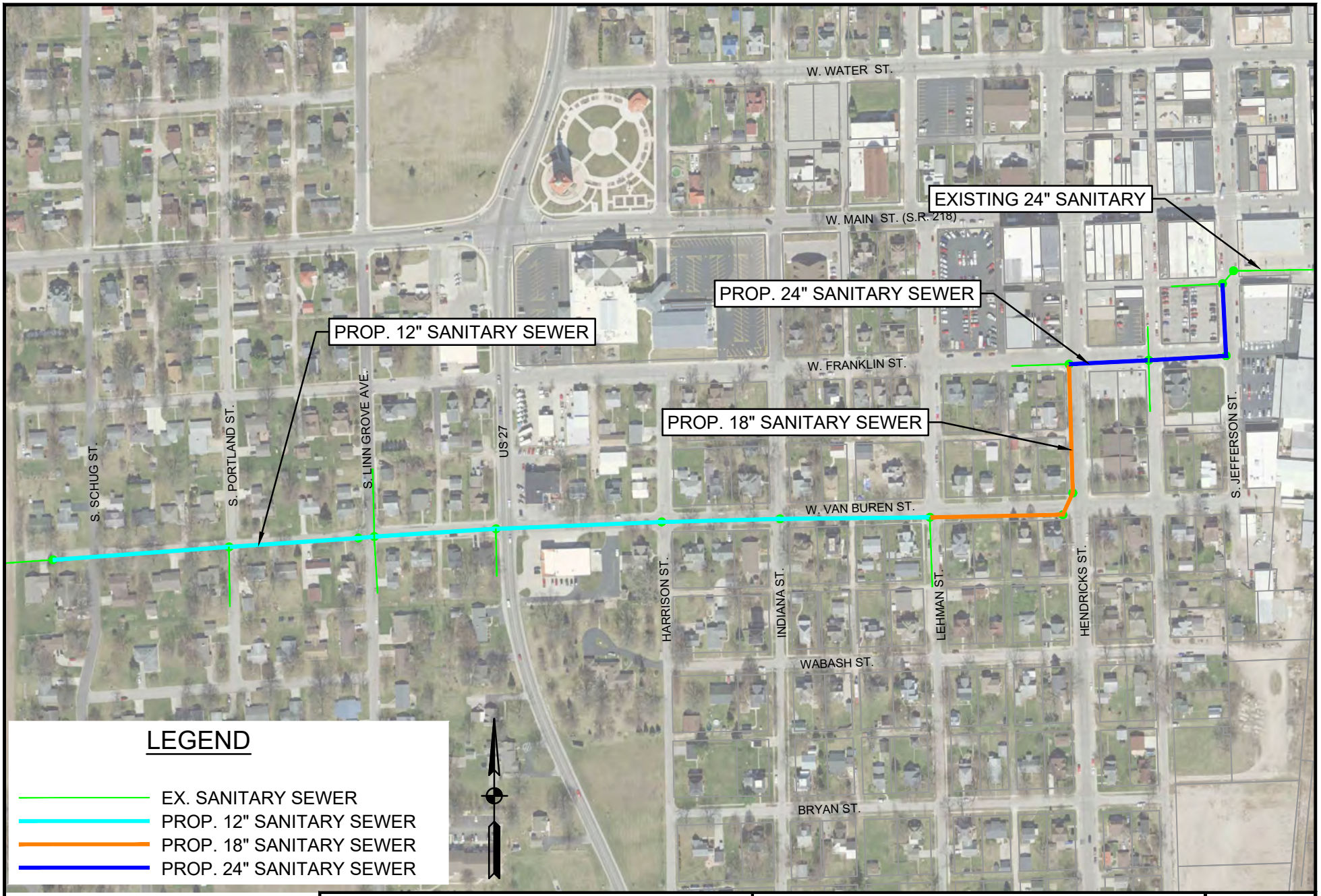
ALTERNATIVE 1C - PARR RD. LIFT STATION SEWER SUBSYSTEM IMPROVEMENTS

FIGURE

0-2



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300' 150' 0 300'

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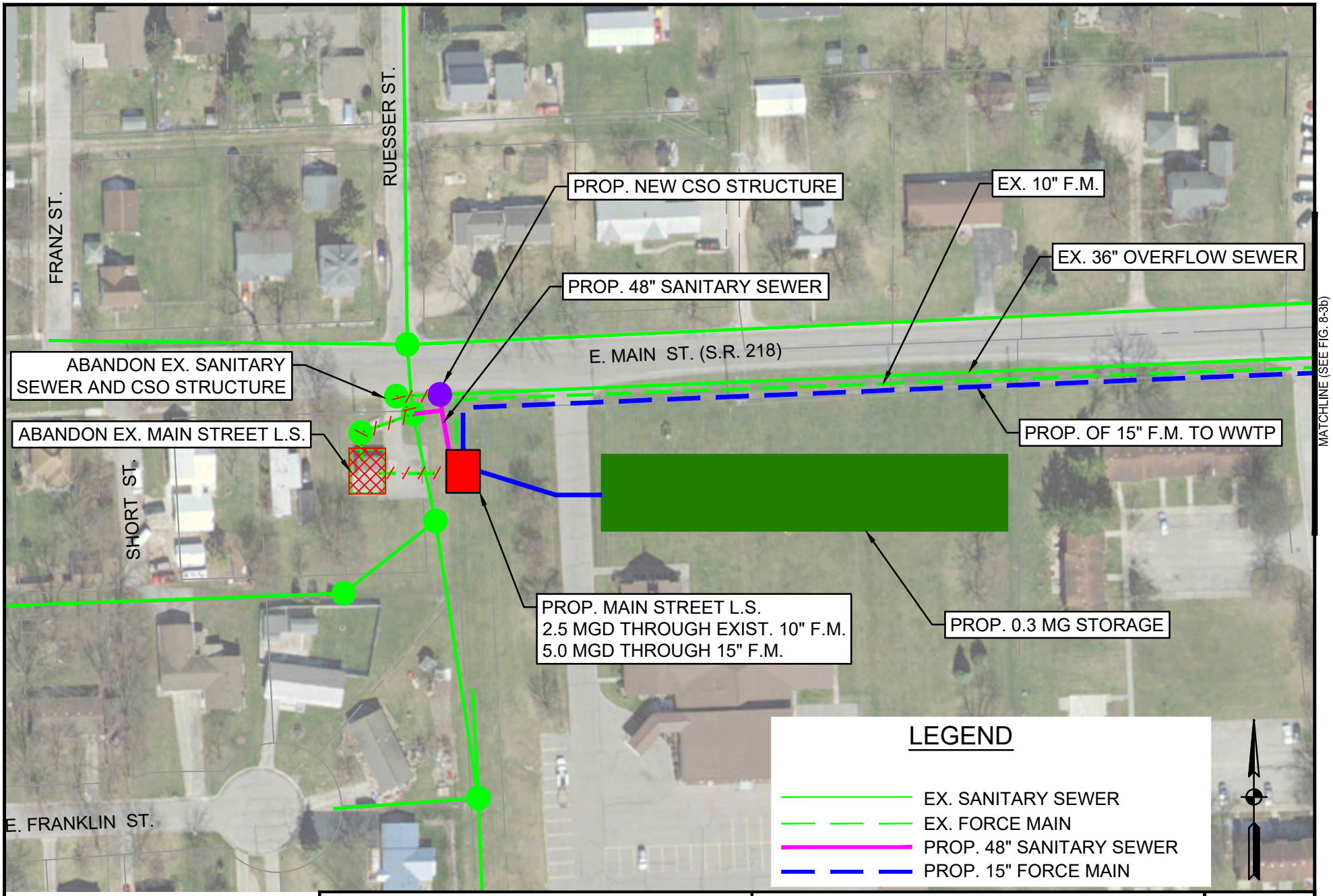
ALTERNATE 2 - MAIN ST. LIFT STATION COLLECTION SYSTEM IMPROVEMENTS

FIGURE

0-3



SCALE: 1"=100'

100' 0 100'

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ALTERNATIVE 3C - MAIN ST. LIFT STATION IMPROVEMENTS

FIGURE

0-4a

MATCHLINE (SEE FIG. 8-3a)

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ALTERNATIVE 3C - MAIN ST. LIFT STATION IMPROVEMENTS

FIGURE

0-4b

0.7 Financial Capability Analysis

One of the most critical determinations of a CSO LTCP is the analysis of the economic burden that the implementation of the CSO LTCP will have on the wastewater utility customers. This analysis also impacts the duration of the implementation schedule, which ranges from five (5) to twenty (20) years. In the approved August 2017 CSO LTCP Update, it was determined that the implementation of the selected August 2017 CSO LTCP alternatives was to be high on ratepayers. The 2017 Financial Capability Analysis found the implementation of the approved alternative would result in a Wastewater Cost per Household Indicator (WW_{CPHI}) of 3.22%, and a socio-economic indicator of 1.6. These values are then used in the Financial Capability Matrix to determine the level of burden on ratepayers in the City of Berne, which was determined to be a **high burden**.

Per IDEM Guidance, the financial capability analysis determines the WW_{CPHI} by dividing the sum of current and projected wastewater costs on an annual basis by the annual median household income (MHI). The August 2017 WW_{CPHI} was calculated using an annual wastewater and stormwater cost of $1,440.72 after full implementation of the CSO LTCP, and a MHI of $44,737 from 2010 census data. For the 2024 CSO LTCP Update, the MHI has been updated to $55,223 based on the US Census Bureau's 2022 American Community Survey (ACS) 5-Year Estimate. With the new MHI, the WW_{CPHI} for the 2024 CSO LTCP Update is 2.61%. The calculations for each WW_{CPHI} are summarized:

- **August 2017 CSO LTCP WW_{CPHI} =** Full Implementation Wastewater and Stormwater Cost per Household / 2010 Census MHI = ($1,440.72 / $44,737) * 100% = **3.22%**
- **2024 CSO LTCP WW_{CPHI} =** Full Implementation Wastewater and Stormwater Cost per Household / 2022 ACS MHI = ($1,440.72 / $55,223) * 100% = **2.61%**

Using the same August 2017 CSO LTCP Update socio-economic indicator score of 1.6, the 2024 CSO LTCP Update WW_{CPHI} can be used to determine the burden on ratepayers, as shown below in **Table 0-3: Financial Capability & Implementation Schedule Matrix**.

Table 0-3: Financial Capability & Implementation Schedule Matrix

SEIM Score	WW_{CPHI} Below 1%	WW_{CPHI} 1% to 2%	WW_{CPHI} Above 2%
Above 2.5	Medium	High	High
1.5 to 2.5	Low	Medium	**High**
Below 1.5	Low	Low	Medium

Though the increase of the MHI in the City of Berne lowered the WW_{CPHI}, the burden was not significantly reduced to below the 2% threshold in the Financial Capbability and Implementation Schedule Matrix. **As such, the burden on ratepayers remains HIGH,**

with the approved 10 to 20 year full implementation schedule of the CSO LTCP through 2026 is to remain in effect.

0.8 Post Construction Monitoring Plan

Upon completion of the CSO LTCP, the City will perform Post-Construction Compliance Monitoring (PCCM) to determine if the CSO LTCP improvement are meeting the intent of IDEM's Nonrule Policy Document (NPD) Water-016: CSO Treatment Facilities. The following information may be utilized by the City in the evaluation of PCCM: precipitation intensity data; antecedent moisture conditions, recorded CSO overflow data and CSO Monthly Reports of Operations (MROs); and WWTP MROs.

The Phase IV Storage and Pumping CSO controls will be designed equal to or greater than the level of control in IDEM's NPD Water-016: CSO Treatment Facilities whereby all CSO flows associated with the 10-year, 1-hour design storm will be stored for full treatment at the WWTP. It should be noted that CSO 046 (CSO 004 diversion) will remain open for wet weather events that are in excess of the level of control identified in IDEM OWQ's NPD Water-016: CSO Treatment Facilities to provide hydraulic relief and limit the possibility of property damage during excessive precipitation events.

0.9 CSOOP Review and Revisions

Federal and State Combined Sewer Overflow (CSO) requirements established through the City of Berne's NPDES Permit No. IN0021369, mandate that the CSO LTCP and Combined Sewer Overflow Operational Plan (CSOOP) are reviewed and revised, as necessary, at regular intervals. The City of Berne CSOOP was submitted to IDEM OWQ in 1996, with updates occurring December 2002 and November 2014. Periodic reviews of the CSOOP will continue to be conducted to ensure compliance with this NPDES permit provision. A CSOOP update will also be prepared after the final phase of the LTCP is operational in order to document new wet weather operating procedures and other relevant information. All updates will be submitted to the IDEM OWQ for review and approval.

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