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*

November 13, 2024

VIA ELECTRONIC MAIL: Jenniferwilliams@NiSource.com

Ms. Jennifer Williams, Principal, Env. Remediation
Northern Indiana Public Service Co. (NIPSCO)
150 W. Market St., Ste. 600
Indianapolis, IN 46204

Dear Ms. Williams:

Re: IDEM Approval of
General NPDES Permit Coverage
#ING420042 - Temporary Discharge
Northern Indiana Public Service Co. (NIPSCO)
1039 E. Pennsylvania Ave.
South Bend, IN
St. Joseph County

Our office has received the Notice of Intent (NOI) forms and supplemental information for the above-referenced facility. We are pleased to inform you that it is sufficient to comply with the NOI requirements for the NPDES General Permit ING420000 for temporary discharges of wastewater and that your project will be covered by this general permit.

This site will undergo dewatering activities to allow removal of an HDPE liner from Bowman Creek and installation of a permeable reactive cap. This will help prevent contaminant seepage from the ground to the creek. This work is being performed and has been approved as a part of a larger Voluntary Remediation Project through IDEM's Office of Land Quality.

The NPDES general permit coverage number assigned to this facility is referenced above. This number shall be used as an identification number and should be included in all correspondence submitted to IDEM in relation to NPDES general permit coverage for this site. Approval of coverage includes all outfalls listed in Attachment 1 to this letter, and the effluent limitations and monitoring requirements are set forth in Attachment 2.

The effective date of this general permit coverage is **December 1, 2024.** You are required to follow all terms and conditions of ING420000 and this approval letter. **The expiration date for this general permit coverage is March 31, 2025.** Your Notice of Intent states that you expect your project to last 75 days, so this deadline should be adequate. If, however, you believe you will need time beyond March 31, 2025, to

complete the dewatering phase of your project, please contact our Office as soon as possible to discuss other options.

Please note that this is a one-time discharge authorization which cannot be renewed. The coverage may be modified during its term, however, the term may not be extended beyond the expiration date listed above.

The NPDES general permit and fact sheet for ING420000 may be found on IDEM's website at https://www.in.gov/idem/cleanwater/resources/permits-on-notice/. If necessary, you may contact the permit manager listed below to request a copy be sent to you. You are responsible for following the general permit requirements contained therein.

One condition of your permit requires periodic reporting of several effluent parameters. NPDES permit holders are required to submit their monitoring data to IDEM using NetDMR. Permittees are required to submit both federal discharge monitoring reports (DMRs) and state Monthly Monitoring Reports (MMRs) on a routine basis. The MMR form can be found on IDEM's website at 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 "Monthly Monitoring Report (MMR) for Industrial Discharge Permits-30530" under the Wastewater Facilities heading. We recommend selecting the "XLS" version because it will complete all of the calculations when you enter the data. Please see https://www.in.gov/idem/cleanwater/resources/netdmr/ or contact Helen Demmings at (317) 232-8815 for more information on NetDMR.

Please note that IDEM shall serve notice of its decision to accept your facility for coverage under the general permit in accordance with the requirements of 327 IAC 5-3-14. It should also be noted that any 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 Administrative Law Proceedings (OALP) 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. A copy must also be served upon IDEM. The addresses are as follows:

Director
Office of Administrative Law Proceedings
Indiana Government Center North
Suite 802
100 N. Senate Ave.
Indianapolis, IN 46204

Commissioner
Indiana Department of Environmental Mgmt.
Indiana Government Center North
Room 1301
100 N. Senate Ave.
Indianapolis, IN 46204

The Office of Administrative Law Proceedings will provide parties who request review of this acceptance for coverage with notice of prehearing conferences, preliminary hearings, and stays or orders disposing of all proceedings. Nonparties may receive such notices without intervening and formally becoming parties in the proceedings by requesting copies of such notices from the Office of Administrative Law Proceedings.

If you should have any questions regarding this letter, please contact Ms. C. Anne Burget of my staff at (317) 234-8745 or cburget@idem.IN.gov.

Sincerely,

Catherine Hess

Catherine Hess, Chief
Permits Administration Section
Office of Water Quality

Attachments
cc: Ms. Theresa Rowland, Haley & Aldrich, Inc. (TRowland@Haleyaldrich.com)
Mr. Sean Carroll, Haley & Aldrich, Inc. (SCarroll@Haleyaldrich.com)
Mr. Kyle Turner, Haley & Aldrich, Inc. (KTurner@Haleyaldrich.com)

ATTACHMENT 1

NORTHERN INDIANA PUBLIC SERVICE CO. (NIPSCO)

GENERAL NPDES PERMIT COVERAGE APPROVAL # ING420042

EFFECTIVE DATE : DECEMBER 1, 2024

AUTHORIZED OUTFALLS

The following outfalls are authorized for coverage under this general permit approval:

OUTFALL	LATITUDE	LONGITUDE	RECEIVING WATER
007	41^{O} 39’ 47.70”	-86^{O} 14’ 12.61”	Bowman Creek

ATTACHMENT 2 - Discharge Limitations

Table 1 [1][3]

	Quantity or Loading			Quality or Concentration			Monitoring Requirements	
Parameter	Monthly average	Daily maximum	Units	Monthly average	Daily maximum	Units	Measurement frequency	Sample type
Flow [2]	Report	Report	MGD	----	----	----	Daily	Instantaneous
Total Flow [2]	----	Report	Mgal	----	----	----	1 x Monthly	Cumulative monthly total
Benzene	----	----	----	Report	5	ug/l	1 x Weekly	Grab
Naphthalene	----	----	----	Report	10	ug/l	1 x Weekly	Grab
Oil & Grease	----	----	----	10	15	mg/l	1 x Weekly	Grab
Total Suspended Solids (TSS)	----	----	----	30	45	mg/l	1 x Weekly	Grab
Acenaphthene	----	----	----	22	44	ug/l	1 x Weekly	Grab
Fluorene [4]	----	----	----	2.0	3.9	ug/l	1 x Weekly	Grab
Phenanthrene [4]	----	----	----	1.4	2.8	ug/l	1 x Weekly	Grab

Table 2

	Quality or Concentration			Monitoring Requirements	
Parameter	Daily minimum	Daily maximum	Units	Measurement frequency	Sample type
pH [5]	6.0	9.0	s.u.	Daily	Grab
Dissolved Oxygen	7.0	-------	mg/l	1 x Weekly	Grab

[1] See Part 2.2 of NPDES General Permit ING420000 for minimum narrative standards.

[2] Monitoring and reporting of effluent flow is required; flow volume may be estimated.

[3] Samples and measurements taken as required in this section shall be representative of the volume and nature of the monitored discharge. Samples taken in compliance with the monitoring requirements in this section shall be taken at a point representative of the discharge but prior to entry into waters of the state. Test methods shall be selected that will provide adequately sensitive data results.

[4] The following EPA approved test methods and associated Limits of Detection (LODs) and Limits of Quantitation (LOQs) are to be used in the analysis of the effluent samples. Alternative methods may be used if first approved by IDEM and EPA, if applicable.

Parameter	Test Method	LOD (µg/l)	LOQ (µg/l)
Fluorene	EPA 625 with SIM**	0.022	0.046
Phenanthrene	EPA 625 with SIM**	0.023	0.046

**Selected ion monitoring mode (SIM)

[5] If more than one grab sample is collected on a given day for pH monitoring, the values shall not be averaged for reporting daily maximums or daily minimums. The individual minimum and maximum pH value of any sample(s) taken during the month must be listed individually on the monthly monitoring reporting form(s).

STATE OF INDIANA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

PUBLIC NOTICE NO. 20241113-ING420042-GP

DATE OF NOTICE: NOVEMBER 13, 2024

The Office of Water Quality approves the following NPDES GENERAL PERMIT action**:**

NEW GENERAL PERMIT COVERAGE UNDER ING420000

NORTHERN INDIANA PUBLIC SERVICE COMPANY (NIPSCO), NPDES General Permit Coverage No. ING420042. This facility is located at 1039 E. Pennsylvania Ave., South Bend, IN (ST. JOSEPH COUNTY). This project involves dewatering an area of the property to remove an existing HDPE liner from Bowman Creek and replace it with a permeable reactive cap to help address pollutant seepage into the creek. There is one outfall into Bowman Creek downstream of the work being done. NPDES general permit coverage has been approved and shall become effective December 1, 2024. Coverage will remain in force until March 31, 2025, or until a termination request is submitted and approved. For more information regarding this permit action, please contact Ms. C. Anne Burget at (317) 234-8745 or cburget@idem.IN.gov.

Notice of Right to Administrative Review

If you wish to challenge this permit, you must file a Petition for Administrative Review with the Office of Administrative Law Proceedings (OALP) 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 Administrative Law Proceedings (OALP) 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 Administrative Law Proceedings
Indiana Government Center North
Room N802
100 North Senate Ave.
Indianapolis, IN 46204

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

The petition must contain the following information:

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

Failure to meet the requirements of the law with respect to a Petition for Administrative Review may result in a waiver of 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 the OALP at the address above.

If you have procedural or scheduling questions regarding your Petition for Administrative Review, please refer to OALP's website at https://www.in.gov/oalp/.

Reset Form

NOTICE OF INTENT (NOI) LETTER FOR ING420000 TEMPORARY DISCHARGES GENERAL NPDES PERMIT

State Form 56913 (2-20)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Mail this form and required attachments to:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Water Quality,
Permits Administration Section
100 North Senate Avenue, IGCN Room 1255
Indianapolis, IN 46204-2251

INSTRUCTIONS

- ***This form must be used to apply for coverage under the General NPDES Permit for temporary discharges pursuant to NPDES Permit Number ING420000. Please submit the form at least forty-five (45) days prior to the planned commencement of discharge.***
- ***Please type or print in ink. Do not use white-out to correct errors. Strike-through and initial any corrections.***
- ***Further item-specific instructions are provided in Appendix A on pages 6 and 7 of this form.***

For questions regarding this form, the required attachments, and permit requirements, contact the Office of Water Quality, Permits Administration Section at (317) 232-8704 or (800) 451-6027, ext 28704 (within Indiana) or contact us via e-mail at OWQWWPER@idem.IN.gov.

ELIGIBILITY REQUIREMENTS

This permit authorizes certain temporary discharges of wastewater to surface waters of the state. Types of discharges that may be covered under this permit include, but are not limited to, emergency discharges, discharges related to environmental cleanup activity, discharges resulting from testing of pilot projects, and dewatering discharges of contaminated water. These discharges can only be permitted under this general permit for a maximum of 364 consecutive calendar days.

Discharges **NOT** authorized by this permit include the following:

a) direct discharges into waters that are designated as an Outstanding National Resource Water (ONRW) as defined at IC 13-11-2-149.5;
b) discharges to a receiving stream when the discharge results in an increase in the ambient concentration of a pollutant which contributes to the impairment of the receiving stream for that pollutant as identified on the current 303(d) list of impaired waters;
c) discharges containing water treatment additives (WTAs) which have not received prior written approval from IDEM for the specific additive, use, and dosage at the particular facility for which the Notice of Intent (NOI) is submitted;
d) discharges that take place within five-hundred (500) yards upstream of a public water supply surface water intake and cannot meet Indiana's public water supply standards;
e) discharges of storm water associated with industrial activity (regulated under 327 IAC 15-6)
f) discharges of storm water runoff associated with construction activity (regulated under 327 IAC 15-5 or INRA00000);
g) discharges from coal mining operations (regulated under 327 IAC 15-7);
h) discharges from a groundwater petroleum remediation system (regulated under General NPDES Permit ING080000);
i) discharges from a petroleum product terminal (regulated under General NPDES Permit ING340000);
j) discharges from a sand, gravel, dimension stone, or crushed stone operation (regulated under General NPDES Permit ING490000);
k) discharges of hydrostatic test water from a commercial pipeline (regulated under General NPDES Permit ING670000);
l) discharges that are discharged to combined or sanitary sewer systems;
m) discharges that are commingled with hazardous wastes or hazardous materials;
n) bypasses or upsets of any kind from a treatment works or collection system;
o) discharges that contain pollutants classified as bioaccumulative chemicals of concern (BCCs);
p) discharges for which the Commissioner requests an individual NPDES permit application; and
q) discharges of wastewater already regulated under another NPDES permit.

☑ By checking this box I certify that this facility meets all eligibility requirements of this general permit.

APPLICATION TYPE AND INFORMATION

☑ NEW ☐ MODIFICATION	ANTICIPATED DATE OF COMMENCEMENT OF DISCHARGE *(month, day, year)* 11/18/2024	ESTIMATED DURATION *(IN DAYS)* OF DISCHARGE *(MUST NOT EXCEED 364 DAYS)* 75 days	DESCRIPTION OF PROPOSED MODIFICATION, IF APPLICABLE Not applicable

PART A: GENERAL INFORMATION FOR FACILITY

1. FACILITY NAME *(See Appendix A.)*

Northern Indiana Public Service Company, LLC (NIPSCO)

2. FACILITY MAILING ADDRESS *(See Appendix A.)*			3. FACILITY PHYSICAL LOCATION (*See Appendix A.)*		
STREET ADDRESS *(number and street)*			STREET ADDRESS *(number and street)*		
150 W. Market Street, Suite 600			1039 E. Pennsylvania Avenue		
CITY	STATE	ZIP CODE	CITY	STATE	ZIP CODE
Indianapolis	IN	46204	South Bend	IN	46601

4. PARENT COMPANY/OWNER'S COMPLETE MAILING ADDRESS *(See Appendix A.)*			5. FACILITY CODES *(See Appendix A.)* SIC Code	NAICS Code	6. FACILITY COUNTY
COMPANY NAME Northern Indiana Public Service Company (NIPSCO)			4924	221210	St. Joseph
STREET ADDRESS *(number and street)* 150 W. Market Street, Suite 600			7. LATITUDE AND LONGITUDE OF CENTER OF FACILITY SITE *(See Appendix A.)*		
CITY	STATE	ZIP CODE	Latitude: degree / minute / second		Longitude: degree / minute / second
Indianapolis	IN	46204	41	39 / 41 N	86 / 14 / 12 W

8. What is the nature of the primary business conducted at the facility or site? (Example: new construction of a small business building)
Facility is an active utility servicer that distributes natural gas.

9. Provide a brief description of the facility operations that result in the discharge. (Example: dewatering of limited area necessary to construct foundation for building)
Historical releases to Bowman Creek have resulted in the presence of contaminants in Bowman Creek sediments. This remediation project will include dewatering of groundwater to enable removal of an existing HDPE liner from Bowman Creek and install a replacement permeable reactive cap to address contaminant seepage from the ground to the creek. This work is being performed as part of a larger IDEM VRP project.

PART B: CONTACT INFORMATION FOR RESPONSIBLE OFFICIAL (AUTHORIZED NOI SIGNATORY)

Provide information regarding the responsible official who has the authorization to sign this NOI in accordance with 40 CFR 122.22. If the responsible official wishes to delegate signatory authority for reports and other correspondence related to this NOI, that delegation must be made in writing to IDEM. This delegation of authority may occur either via this NOI or via a letter (signed and dated by the responsible official) which shall be submitted to the address on Page 1 of this NOI form. *(See Appendix A.)*

10. NAME OF RESPONSIBLE OFFICIAL	11. DELEGATED SIGNATORY PERSON (OR POSITION) TO SIGN REPORTS AND FILE ADDITIONAL NOI CONTENT REQUIREMENTS
Jennifer Williams	Sean Carroll
RESPONSIBLE OFFICIAL'S TITLE	DELEGATED SIGNATORY PERSON'S TITLE or POSITION
Principal Environmental Remediation	Senior Remediation Engineer
RESPONSIBLE OFFICIAL'S TELEPHONE NUMBER	DELEGATED SIGNATORY PERSON'S TELEPHONE NUMBER
317.694.4303	860.290.3140
RESPONSIBLE OFFICIAL'S FACSIMILE NUMBER	DELEGATED SIGNATORY FACSIMILE NUMBER
RESPONSIBLE OFFICIAL'S PHYSICAL LOCATION ADDRESS	DELEGATED SIGNATORY'S PHYSICAL LOCATION ADDRESS
150 W. Market Street, Suite 600, Indianapolis, IN, 46204	100 Corporate Place, Suite 105, Rocky Hill, CT, 06067
RESPONSIBLE OFFICIAL'S MAILING ADDRESS	DELEGATED SIGNATORY'S MAILING ADDRESS
150 W. Market Street, Suite 600, Indianapolis, IN, 46204	100 Corporate Place, Suite 105, Rocky Hill, CT, 06067
RESPONSIBLE OFFICIAL'S E-MAIL ADDRESS	DELEGATED SIGNATORY PERSON'S E-MAIL ADDRESS
jenniferwilliams@NiSource.com	scarroll@haleyaldrich.com

PART C: OTHER CONTACT INFORMATION

12. DISCHARGE MONITORING REPORTS CONTACT AND MAILING INFORMATION	CONTACT PERSON AND COMPANY NAME		
	Sean Carroll, Haley & Aldrich, Inc.		
CONTACT TELEPHONE NUMBER 860.290.3140	STREET ADDRESS *(number and street)* 100 Corporate Place, Suite 105		
CONTACT E-MAIL ADDRESS scarroll@haleyaldrich.com	CITY Rocky Hill	STATE CT	ZIP CODE 06067
13. ANNUAL FEE AND FINANCIAL CONTACT AND BILLING ADDRESS	CONTACT PERSON AND COMPANY NAME		
	Jennifer Williams		
CONTACT TELEPHONE NUMBER 317.694.4303	STREET ADDRESS *(number and street)* 150 W. Market Street, Suite 600		
CONTACT E-MAIL ADDRESS jenniferwilliams@NiSource.com	CITY Indianapolis	STATE IN	ZIP CODE 46204

14. CONTRACTOR OR OPERATOR / CONTACT AND MAILING INFORMATION *(as necessary)*	CONTACT PERSON AND COMPANY NAME		
	Kyle Turner, Haley & Aldrich, Inc.		
CONTACT TELEPHONE NUMBER	STREET ADDRESS *(number and street)*		
260.243.3556	6500 Rockside Rd, Suite 200		
CONTACT E-MAIL ADDRESS	CITY	STATE	ZIP CODE
kturner@haleyaldrich.com	Cleveland	OH	44131

PART D: OUTFALL INFORMATION

Provide the following information for all outfalls / discharges to be covered by this general permit. You may attach additional sheets if necessary.

15. OUTFALL NUMBER	16. LATITUDE			LONGITUDE			17. RECEIVING WATER *(See Appendix A.)*	18. FOR ANY DISCHARGE INTO A STORM SEWER IDENTIFY THE STORM SEWER OWNER. *(See Appendix A.)*	19. ANTICIPATED DAILY VOLUME OF DISCHARGE in MGD AND METHOD OF DETERMINATION OF VOLUME
	deg	min	sec.	deg.	min.	sec.			
007	41	39	47.70	86	14	12.61	Bowman Creek		1 mgd, estimate

PART E: EFFLUENT CHARACTERIZATION

20. Representative samples of the water that is to be discharged must be analyzed for substances that could reasonably be expected to be present based on the results of the site inquiry. A table of contaminants based on types of common source sites with temporary discharges are provided in Appendix B, at the end of the NOI form. The applicant should:

    1) determine which of them best applies to the site and discharge that is to be permitted;
    2) copy that table as needed for each outfall/discharge to be covered by this general permit.
    3) conduct the sampling and testing required by the table that fits the site;
    4) fill out the table with the resulting data; and
    5) submit the completed table with the completed and signed NOI document.

PART F: WATER TREATMENT ADDITIVES

Please complete the following additional information about the discharge from each outfall. Note that the only additives that may be used under this permit are those that have been approved for use at this site by the Indiana Department of Environmental Management. You may attach additional sheets if necessary. *(See Appendix C.)*

21. OUTFALL NUMBER	22. WATER TREATMENT ADDITIVES (WTAs) TO BE USED
	None

PART G: ADDITIONAL REQUIRED ATTACHMENTS

23. PROOF OF PUBLICATION

The NOI must also include the submittal of a proof of publication of the following statement in a newspaper of largest circulation in the area of the discharge:

(Supply facility name, address, address of the location of the discharging facility) "is submitting a Notice of Intent to notify the Indiana Department of Environmental Management of our intent to comply with the requirements under National Pollutant Discharge Elimination System (NPDES) general permit ING420000 to discharge non-process wastewater on a temporary (less than 364 consecutive days) basis. This site will discharge wastewater *"(describe activity resulting in discharge and type of discharge*) to *(insert the name of the stream(s) or water body receiving the discharge(s)*)."

"Any person wishing further information about this discharge may contact *(supply facility contact person's name and telephone or e-mail information)*. The decision to issue coverage under this NPDES general permit for this discharge is appealable as per IC 13-15-6. Any person who wants to be informed of IDEM's decision regarding granting or denying coverage to this facility under this NPDES permit, and who wants to be informed of procedures to appeal the decision, may contact IDEM's offices at OWQWWPER@Idem.IN.gov to be placed on a mailing list to receive notification of IDEM's decision."

This publication must be in the newspaper for a minimum of one day. Be advised that notices without the proper information will not be sufficient, and IDEM will require that a new public notice be placed in the newspaper. If the proof of publication is not available a legible photocopy of the article that contains the name of the newspaper and the date the article was run is also acceptable. Please attach proof of publication of this statement from the newspaper to the NOI.

24. REQUIRED MAPS

1. A topographical map must be submitted with this NOI. The map must include the following items:
   (A) the location of the operation shown clearly and identified by name and by mark;
   (B) the location of each numbered outfall shown clearly and identified by number and by mark;
   (C) the receiving streams that each outfall discharges to shown clearly and identified by name; and
   (D) any existing permanent structures or roads in the area shown clearly and identified by name.

2. A site map must be submitted. The site map must show and identify the significant structures, including all piping, diked areas, all outfall and sampling locations, and any flow paths from piping to outfall on the property.

3. A flow schematic diagram for each outfall that is to be permitted must be submitted with this NOI. This diagram should show the path that the wastewater water travels through the site to the point where it is discharged. If multiple outfalls will follow essentially the same path, these outfalls may be included on one diagram.

25. SITE INQUIRY ATTACHMENT

The applicant shall conduct an inquiry to determine what soil or groundwater contamination should be expected in the wastewater to be discharged. The inquiry should consider:

1) current and historic uses of the site;
2) current uses of adjacent sites;
3) probable hazardous substances that could reasonably be associated with the current or historic uses;
4) whether the site is considered contaminated by the IDEM, US EPA, or other parties;
5) whether the site is currently subject to risk-based corrective action due to a known petroleum release from an underground storage tank; and
6) any other relevant information.

The applicant should submit a copy of the site inquiry with this NOI The results of this inquiry will serve to determine what additional pollutants should be expected to be present in the wastewater to be discharged from the site. These pollutants should be included in the Effluent Characterization *(see Part E and Appendix B of the NOI)*.

PART H: IDENTIFICATION OF POTENTIALLY AFFECTED PERSONS

26. Pursuant to IC 4-21.5 and IC 13-15-3-1 each applicant for general permit coverage is required to provide a listing of all persons who are potentially affected by the discharge(s) to be covered under the general permit. **PLEASE NOTE THAT MAILING LABELS ARE ALSO REQUIRED WITH THIS SUBMITTAL**. *(See instructions in Appendix A.)*

Please list here any and all persons whom you have reason to believe have a substantial or proprietary interest in this matter, or could otherwise be considered to be potentially affected under the law. Failure to notify any person who is later determined to be potentially affected could result in voiding our decision on procedural grounds. To ensure conformance with AOPA and to avoid reversal of a decision, please list all such parties. Attach additional names and addresses on a separate sheet of paper, as needed.

Name: SLM Management LLC		Name: Grand Trunk Western Railroad
Street address *(number and street)*: PO Box 855		Street address *(number and street)*: PO Box 8100 Downtown Station
City/State/ZIP Code: Bristol, IN, 46507		City/State/ZIP Code: Montreal, QC, H3C3N4
E-mail address: N/A		E-mail address: N/A
Name: Myco Enterprises LLC		Name: Department of Redevelopment City of South Bend
Street address *(number and street)*: 1008 Lincoln Way East		Street address *(number and street)*: 227 W Jefferson Blvd Suite 1400
City/State/ZIP Code: South Bend, IN, 46601		City/State/ZIP Code: South Bend, IN, 46601
E-mail address: N/A		E-mail address: N/A
Name: Bridge Financial Services INC		Name: CEOL Mor Properties LLC
Street address *(number and street)*: 1009 Lincoln Way East		Street address *(number and street)*: 2416 River Ave
City/State/ZIP Code: South Bend, IN, 46601		City/State/ZIP Code: Mishawaka, IN, 46544
E-mail address: N/A		E-mail address: N/A
Name:		Name:
Street address *(number and street)*:		Street address *(number and street)*:
City/State/ZIP Code:		City/State/ZIP Code:
E-mail address:		E-mail address:

PART H: IDENTIFICATION OF POTENTIALLY AFFECTED PERSONS *(continued)*		
Name:		Name:
Street address *(number and street)*:		Street address *(number and street)*:
City/State/ZIP Code:		City/State/ZIP Code:
E-mail address:		E-mail address:
Name:		Name:
Street address *(number and street)*:		Street address *(number and street)*:
City/State/ZIP Code:		City/State/ZIP Code:
E-mail address:		E-mail address:
Name:		Name:
Street address *(number and street)*:		Street address *(number and street)*:
City/State/ZIP Code:		City/State/ZIP Code:
E-mail address:		E-mail address:
Name:		Name:
Street address *(number and street)*:		Street address *(number and street)*:
City/State/ZIP Code:		City/State/ZIP Code:
E-mail address:		E-mail address:

PART I: APPLICATION FEE

27. A $50 fee is required to be submitted with this NOI in accordance with IC 13-18-20-12. The $50 fee is applicable for each new permit and modification. (Updates to information in Parts B and C shall not be subject to the $50 fee for modifications.) Checks or money orders shall be made payable to IDEM. Credit card payments are also acceptable. For more information, please contact IDEM's Accounting Dept at (317) 234-3099. Online payments can also be made via IDEM's website by visiting https://www.in.gov/idem/6973.htm.

PART J: SIGNATORY CERTIFICATION STATEMENT

28. The NOI must be signed by the Responsible Official (as identified in Part B, item 10. Also see Appendix A):

"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.

I swear or affirm, under penalty of perjury as specified by IC 35-44.1-2-1 and other penalties specified by IC 13-30-10 and IC 13-15-7-1(3), that the statements and representations in this ***NOI*** *are true, accurate, and complete.*

Jennifer Williams Printed or Typed Name of Responsible Official	Project Manager Title
Jennifer Williams Signature	10/04/24 Date signed *(month, day, year)*

PART K: 29. Please use the address at the top of page 1 of the NOI form to submit completed NOI form, attachments, and fee.

APPENDIX A: SUPPLEMENTAL INSTRUCTIONS

APPLICATION TYPE: For the purposes of this form a modification would consist of removing an existing outfall, adding an outfall in a new location, updating the quantity of discharge anticipated, or updating your wastewater characterization if it is determined that an actual value differs significantly from what you stated on a previous submittal. Please note that outfall locations are considered for the purposes of this permit to be discrete points. If you relocate an outfall you must apply for a modification to remove the outfall at the previous location, and add a new outfall with a new outfall number, to the permit.

Changes in contact information must be reported, but you may do so with a letter signed by the signatory (Part B Item 10) or delegated signatory authority (Part B Item 11). An NOI modification submittal is not required for these changes.

ELIGIBILITY REQUIREMENTS: Prior written approval from IDEM is required for any substance that is to be added to the water that is to be discharged. See Appendix C of this application which incorporates the requirements of State Form 50000 (the application for the use of Water Treatment Additives).

Part A, item 1: Enter the name of the specific site location that is to be permitted. This will be a unique name to identify this single site in conversation and correspondence.

Part A, Items 2 and 3: If the physical location is the same as the mailing address of the site to be permitted then both of these sections will be the same. In this case you may fill in the first and fill in "same" in the second. However if the mailing address is not sufficient to allow a person who wishes to visit the site to find it then section 3 should be a description of where the site itself is located. You may attach additional sheets if the boxes provided do not offer sufficient space to provide a proper location description.

Part A, Item 4: Enter the name and mailing address of the company that owns the site. This may be the name of the site itself but does not have to be. For example if "ABC Stone company" owns quarries at several locations, one of which this permit is being applied for, then "ABC Stone Company" and location of ABC Stone Company's signatory (see Part B, item, 10, below) would be listed here.

Part A, Item 5: Enter the four digit Standard Industrial Classification (SIC) code which identifies the facility's primary activity. SIC codes can be obtained from the Standard Industrial Classification Manual, 1987, by accessing the Occupational Safety and Health Administration (OSHA) website or by contacting the Indiana Department of Workforce Development. You should also provide the applicable NAICS Code, which is the six digit North American Industrial Classification System (NAICS) code, if known.

Part A, Item 7: The latitude and longitude of the approximate center of the facility site must be in the degrees/minutes/seconds format. Longitude and latitude can be obtained from United States Geological Survey (USGS) quadrangle or topographic map, by calling (888) 275-8747, or by accessing a locational (geocoding) website and conducting a search based on the facility street address. You may also access this information with the use of a handheld GPS unit at the site.

Longitude and Latitude in decimal degrees may be converted to degrees/minutes/seconds for proper entry on the NOI by following this example:

Convert decimal latitude 45.1234567 to degrees/minutes/ seconds

1. The numbers to the left of the decimal point are degrees: 45.
2. To obtain minutes multiply the first four number to the right of the decimal point by 0.006: 1234 x 0.006 = 7.404
3. The numbers to the left of the decimal point in the result obtained in (2) are the minutes: 7
4. To obtain seconds multiply the remaining three numbers to the right of the decimal from the result obtained in (2) by 0.06: 404 x 0.06 = 24.24.
5. Since the numbers to the right of the decimal are not used the result is 24 seconds.
6. The conversion for 45.1234567 is 45° (degrees), 7' (minutes), and 24" (seconds).

Part B, item 10: The Responsible Official must meet one of the following requirements:

a) For a corporation, the responsible official must be a responsible corporate officer, which means either of the following:
   (1) A president, secretary, treasurer, any vice president of the corporation in charge of a principal business function, or any other person who performs similar policymaking or decision making functions for the corporation.
   (2) The manager of one (1) or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

b) For a partnership or sole proprietorship, the responsible official must be a general partner or the proprietor, respectively.

c) For a municipality, state, federal, or other public agency or political subdivision thereof, the responsible official must be either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency is:
   (1) The chief executive officer of the agency, or
   (2) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of U.S. EPA).

Part E, Item 15: Enter a three number designation for each point where you will discharge, for example, 001, 002, 003, etc.

Part E, Item 16: See the instructions for Part A, Item 7, above.

Part E, Item 17: Enter the name of the waters of the state into which the discharges from each outfall will occur, as either the body of water itself, if the discharge is direct, or taking into account tributaries, if applicable. EXAMPLE: "Stone Creek", or "Connor Ditch to Stone Creek"; or "unnamed tributary to Connor Ditch".

Part E, Item 18: If the discharge first enters a storm sewer prior, which then carries it to waters of the state, then please provide the name of the owner of the storm sewer. EXAMPLE: "City of Muncie Department of Public Works" or "LaPorte Municipal Storm Sewer System to Connor Ditch".

APPENDIX A: SUPPLEMENTAL INSTRUCTIONS *(continued)*

Part E, items 20 and 21: All pollutant levels must be reported as concentration and as total mass (except for discharge flow, pH, and temperature). Total mass is the total weight of pollutants discharged over a day. Use the following abbreviations for units:

Concentration	Mass
ppm.....parts per million	lbs.....pounds
mg/l.....milligrams per liter	ton.....tons (English tons)
ppb.....parts per billion	mg.....milligrams
ug/l.....micrograms per liter	g.....grams
kg.....kilograms	T.....tonnes (metric tons)
ng/l.....nanograms per liter	

A. Existing Sources

You are required to provide at least one analysis for each pollutant or parameter listed that is known or believed to be present by filling in the requested information under the applicable column. Data reported must be representative of the facility's proposed or current operation. Parameters not present should be marked N/A.

The analysis of the listed pollutants or parameters must be done in accordance with procedures promulgated in 40 CFR Part 136. Grab samples must be used for pH, residual chlorine, and oil and grease. For all other pollutants a 24-hour composite samples must be used. Any further questions on sampling or analysis should be directed to (317) 232-8704 or OWQWWPER@idem.IN.gov.

The Commissioner may request that you do additional testing, if appropriate, on a case by case basis under Section 308 of the Clean Water Act (CWA). If you expect a pollutant to be present solely as a result of its presence in your intake water, provide this information on a separate piece of paper attached to the NOI form.

B. New Dischargers

You are required to provide an estimated maximum daily and average daily value for each pollutant or parameter (exceptions noted on the form). Sampling and analysis are not required at this time. If, however, data from such analyses are available, then such data should be reported. The source of the estimates should be provided in the second column of item 22, for example, estimates based on available in-house or contractor's engineering reports or any other studies performed on the proposed facility. In providing the estimates, use the codes in the following table to indicate the source of such information.

Engineering study Code

Actual data pilot plants	1
Estimates from other engineering studies	2
Data from other similar plants	3
Best professional estimates	4
Others	*Specify on the form.*

Part F, Item 22: Water Treatment Additives may only be used at outfalls to be covered by this general permit if the applicant has received approval from IDEM, as denoted in the Eligibility Requirements on Page 1 of the NOI form. For more information, please contact us at (317) 232-8704 or OWQWWPER@idem.IN.gov.

Part H, Item 26: Identification of Potentially Affected Persons

The Administrative Orders and Procedures Act (AOPA) IC 4-21.5-3-5(b), requires that the Indiana Department of Environmental Management (IDEM) give notice of its decision on your Notice of Intent to the following persons:

1) Each person to whom the decision is specifically directed;
2) Each person to whom a law requires notice to be given;
3) Each competitor who has applied to the IDEM for a mutually exclusive license, if issuance is the subject of the decision and the competitor's application has not been denied in an order for which all rights to judicial review have been waived or exhausted;
4) Each person who has provided the IDEM with a written request for notification of the decision;
5) Each person who has a substantial and direct proprietary interest in the issuance of the (permit/variance);
6) Each person whose absence as a party in the proceeding concerning the (permit) decision would deny another party complete relief in the proceeding or who claims an interest related to the issuance of the (permit) and is so situated that the disposition of the matter, in the person's absence may:
   a) As a practical matter impair or impede the person's ability to protect that interest, or
   b) Leave any other person who is a party to a proceeding concerning the permit subject to a substantial risk of incurring multiple or otherwise an inconsistent obligation by reason of the person's claimed interest.

IC 4-21.5-3-5(f) provides that we may request your assistance in identifying these people.

Additionally, IC 13-15-3-1 requires IDEM to send notice that the permit application has been received by the department to the following:

a) The board of county commissioners of a county affected by the permit application and
b) The mayor of a city that is affected by the permit application, or
c) The president of a town council of a town affected by the permit application.

Please provide on the following form the names of those persons affected by these statutes, **and include mailing labels with your NOI.** These mailing labels should have the names and addresses of the affected parties **along with our mailing code (65-42PS) listed above each** affected party listing.

Example: 65-42PS
John Doe
111 Circle Drive
City, State, ZIP Code

If known, please also provide the person's e-mail address to facilitate electronic distribution of notifications.

Part J, Item 28: 40 CFR 122.22 and 327 IAC 5-2-22 require that an application for an NPDES permit or an NOI for a general permit must be signed by a person who meets the definition of Responsible Official. This definition is explained in the instructions for Part B, Item 10 above.

APPENDIX B: EFFLUENT CHARACTERIZATION

As per the instructions in Part E of the NOI, the following table should be utilized to provide a characterization of the wastewater that is to be discharged under this permit. Sufficiently sensitive test methods must be utilized in the analysis of any samples.

A. Existing Sources – Provide measurements for the parameters listed in the left hand column. You must use, or require your contract laboratory to use, an analytical method with a detection level low enough to provide a detectable value for the pollutant of concern. Please provide the method used and detection limit achieved by the laboratory.
B. New Dischargers – Provide estimates for the parameters listed in the left-hand column below. Instead of the number of measurements taken, provide the source of estimated value.

	Waiver Requested	(1) Maximum Daily Value *(include units)*		(2) Average Daily Value *(last year)* *(include units)*		(3)		Analytical Method *(List method used and detection limit achieved in lab.)*	
		Mass	Concentration	Mass	Concentration	Estimated or Actual Data Results?	Source of Estimate *(if new discharger)*	Method	Detection Limit
Biochemical Oxygen Demand (BOD_5)		See Appendix B - Summary of Groundwater Quality Data							
Total Suspended Solids (TSS)									
Total Residual Chlorine									
Oil and Grease									
Ammonia (as N)									
E. coli									
Discharge Flow		VALUE in MGD		VALUE IN MGD					
pH (S.U.)		MINIMUM		MAXIMUM					
Temperature (Winter)		Value in Degrees Fahrenheit		Value in Degrees Fahrenheit					
Temperature (Summer)		Value in Degrees Fahrenheit		Value in Degrees Fahrenheit					
Lead									
Cyanide, free									
Cyanide, total									
Antimony									
Arsenic									
Benzene									
Beryllium									
BTEX									
Cadmium									
Chloride									
Chromium									

Copper									
Hardness									
Mercury (Test Method 1631, Revision E)									
Nickel									
Selenium									
Silver									
Sulfate									
Total Organic Carbon (TOC)									
TVOC									
Zinc									
Coal Combustion Residual (CCR) [1]									
Perchloroethylene (PERC)									
Tetrachloroethene (TCE)									
Cis-1,2-dichloroethene (cis-1,2-dichloroethylene, cis-1,2-DCE)									
Trans-1,2-dichloroethene (trans-1,2-dichloroethylene, trans-1,2-DCE)									
1,1,1-trichloroethane (1,1,1-TCA)									
1,1-dichloroethene (1,1-dichlorothylene, 1,1-DCE)									
1,1-dichloroethane (1,1-DCA)									
1,2-dichlorothane (1,2-DCA)									
Acenaphthene									
Acrolein									
Acrylonitrile									
Benzidine									
Carbon tetrachloride (tetrachloromethane)									
Chloroform (trichloromethane)									
Chlorobenzene									
1,2,4-trichlorobenzene									
Hexachlorobenzene									

1,2-dichloroethane									
1,1,1-trichloroethane									
Hexachloroethane									
Dichloromethane (methylene chloride)									
1,1,2-Trichloroethane (1,1,2-TCA)									
1,1,2,2-tetrachloroethane									
Chloroethane									
Bis(2-chloroethyl) ether									
2-chloroethyl vinyl ether (mixed)									
2-chloronaphthalene									
2,4, 6-trichlorophenol									
Parachlorometa cresol									
2-chlorophenol									
1,2-dichlorobenzene									
1,3-dichlorobenzene									
1,4-dichlorobenzene									
3,3-dichlorobenzidine									
1,1-dichloroethylene									
1,2-trans-dichloroethylene									
2,4-dichlorophenol									
1,2-dichloropropane									
1,3-dichloropropylene (1,3-dichloropropene)									
2,4-dimethylphenol									
2,4-dinitrotoluene									
2,6-dinitrotoluene									
1,2-diphenylhydrazine									
Ethylbenzene									
Fluoranthene									
4-chlorophenyl phenyl ether									

4-bromophenyl phenyl ether									
Bis(2-chloroisopropyl) ether									
Bis(2-chloroethoxy) methane									
Methyl chloride (dichloromethane)									
Methyl bromide (bromomethane)									
Bromoform (tribromomethane)									
Dichlorobromomethane									
Chlorodibromomethane									
Hexachlorobutadiene									
Hexachloromyclopentadiene									
Isophorone									
Naphthalene									
Nitrobenzene									
2-nitrophenol									
4-nitrophenol									
2,4-dinitrophenol									
4,6-dinitro-o-cresol									
N-nitrosodimethylamine									
N-nitrosodiphenylamine									
N-nitrosodi-n-propylamin									
Pentachlorophenol									
Phenol									
Bis(2-ethylhexyl) phthalate									
Butyl benzyl phthalate									
Di-N-Butyl Phthalate									
Di-n-octyl phthalate									
Diethyl Phthalate									
Dimethyl phthalate									
1,2-benzanthracene (benzo(a) anthracene									

Benzo(a)pyrene (3,4-benzo-pyrene)									
3,4-Benzofluoranthene (benzo(b) fluoranthene)									
11,12-benzofluoranthene (benzo(k) fluoranthene)									
Chrysene									
Acenaphthylene									
Anthracene									
1,12-benzoperylene (benzo(ghi) perylene)									
Fluorene									
Phenanthrene									
1,2,5,6-dibenzanthracene (dibenzo(,h) anthracene)									
Indeno (,1,2,3-cd) pyrene (2,3-o-pheynylene pyrene)									
Pyrene									
Tetrachloroethylene									
Toluene									
Trichloroethylene									
Vinyl chloride (chloroethylene)									
Aldrin									
Dieldrin									
Chlordane (technical mixture and metabolites)									
4,4-DDT									
4,4-DDE (p,p-DDX)									
4,4-DDD (p,p-TDE)									
Alpha-endosulfan									
Beta-endosulfan									
Endosulfan sulfate									
Endrin									
Endrin aldehyde									
Heptachlor									
Heptachlor epoxide (BHC-hexachlorocyclohexane)									

Alpha-BHC									
Beta-BHC									
Gamma-BHC (lindane)									
Delta-BHC (PCB-polychlorinatedbiphenyls)									
PCB-1242 (Arochlor 1242)									
PCB-1254 (Arochlor 1254)									
PCB-1221 (Arochlor 1221)									
PCB-1232 (Arochlor 1232)									
PCB-1248 (Arochlor 1248)									
PCB-1260 (Arochlor 1260)									
PCB-1016 (Arochlor 1016)									
Toxaphene									
Asbestos									
Thallium									

[1] A one-time sample of Coal Combustion Residual (CCR)-related 126 priority pollutants is required to be submitted for ash ponds.

APPENDIX C: WATER TREATMENT ADDITIVE APPLICATION

INTRODUCTION

All dischargers are required to disclose information on the water treatment additives in use and to demonstrate that such additives will not be harmful to aquatic life.

To assure that all discharges from treatment systems using water treatment chemicals meet Indiana Water Quality Standards, the following information must be submitted to the IDEM, Office of Water Quality, Permits Administration Section when applying for a new or renewal NPDES permit or permit modification. During the preparation of the NPDES permit or modification, this information may be used to establish permit limitations which comply with all Indiana Water Quality Standards. Additionally, if a permittee changes water treatment additives during the term of their NPDES permit, the following information must be submitted to the Permits Administration Section, and approval of the change must be received prior to use of the new product(s).

The information required by this form must be submitted for each additive submitted for review. Some of this information may come from the Material Safety Data Sheet (MSDS) for the additive and should be included with this application. It should also be noted that biomonitoring of the effluent for the affected outfall(s) may be required. Please provide the following information for each additive.

PART A: GENERAL INFORMATION

1. Name of authorized official *(first, last)*

Not Applicable (N/A) - no additives will be used

2. Name of facility

N/A

3. Mailing address *(number and street or PO box)*

N/A

City	State	ZIP code
N/A		

CONTACT PERSON

4. Name of primary contact person *(first, last)*

N/A

5. Telephone number	**6.** E-mail address *(optional)*
N/A	

FACILITY

7. Facility address *(number and street)*

N/A

City	State	ZIP code	County
N/A			

8. Telephone number	**9.** E-mail address *(optional)*
N/A	

10. NPDES Permit Number *(if facility has an existing permit)*

N/A

(Continued on next page.)

PART B: ADDITIVE DETAILS

11. Name of water treatment additive ☐ New ☐ Previously Approved

N/A

12. Chemical composition of the water treatment additive[1]

NA

13. What is the feed or dosage rate in grams / twenty-four (24) hour period? *(This may be provided in fluid ounces.)*

N/A

14. If more than one Outfall is covered by this permit, which Outfall does the use of this water treatment additive affect?

N/A

15. Name any ingredient(s) that may be present and may cause toxicity at the proposed Outfall. If known, provide the discharge concentration of the ingredients *(mg/l)*.

N/A

16. Provide the location where the additive is put into use.[2]

N/A

17. Provide the duration of use for the additive *(hours per day and days per year)*.

_____ hours / day _____ days / year

PART C: ADDITIVE CONCENTRATION

18. Concentration (mg/l) of the water treatment additive used in the treatment system

N/A

19. The concentration (mg/l) of the water treatment additive used in the final discharge *(if known)*

N/A

20. Discharge concentration of the water treatment additive *(mg/l)*

N/A

21. Please explain how the final discharge concentration stated for item # 20 was determined.[2]

N/A

22. Provide a description and method used to control the use of the water treatment additive. What are the procedures on how to maintain this concentration within the system?[2]

N/A

(Continued on next page.)

[1] Proprietary information may be submitted separately by the manufacturer or distributor and will be kept confidential.

[2] If necessary, this information may be provided on supplementary attachments.

PART D: SYSTEM AND DISCHARGE DETAILS

23. Provide the hardness of the discharge water.

N/A

24. The temperature of the treatment system using the water treatment additive *(Specify ºF or ºC.)* ☐ °F ☐ °C

N/A

25. The Blowdown Rate *(MGD)* from the treatment system using the water treatment additive

N/A

26. The average flow *(MGD)* of all waste streams being discharged through the affected Outfall

N/A

27. The pH of the treatment system using the water treatment additive

N/A

PART E: CHEMICAL PROPERTIES / TOXICITY DATA

+ For determining safe concentrations of the water treatment additives, the following information should also be submitted or addressed. Submit the supporting documentation (i.e., Material Safety Data Sheets) as attachments to this application.

28. Toxicity (LC_{50}) of the additive[3]

N/A, no chemical additives will be used

29. Test species[4]

N/A

30. Please explain, or provide attachments to explain, the relation of toxicity to pH.

N/A

31. Please explain, or provide attachments to explain the relationship of toxicity to water hardness.

N/A

(Continued on next page.)

[3] As determined by ninety-six (96) hour flow through bioassays for fish (preferably fathead minnow *(Pimephales promelas)* or bluegill *(Lepomis macrochirus)* for warmwater species or rainbow trout *(Salmo gairdneri)* for coldwater species) and a forty-eight (48) hour static renewal for invertebrates (preferably of the genera Daphnia or Ceriodaphnia). Testing procedures to determine LC50 values should follow U.S. EPA Guidelines. Static bioassays are acceptable only if the treatment chemical is persistent. The test temperature should be maintained at 20º Celsius (68º Fahrenheit) for coldwater species and at 30º Celsius (86º Fahrenheit) for warmwater species (higher test temperatures are chosen in order to simulate worst case conditions. Lower test temperatures may be used only if the thermal tolerance of the chosen representative aquatic species is below the recommended test temperatures).

[4] The test species selected should be characteristic of the more sensitive representative aquatic species in the receiving stream.

PART E: CHEMICAL PROPERTIES/TOXICITY DATA *(continued)*

+ Product persistence in the environment and N Octanol-Water Partition Coefficient and Bioconcentration Factor (BCF) *(if available).*

32. Provide the decay rate of the product, if known. This should be stated at a pH level within ½ pH standard unit within the handling system.[5] *(Please provide copies of the sources of this data as attachments to this application.)*

N/A

33. Provide any additional information or attach any additional documentation to help in evaluating the use of this water treatment additive.

N/A

PART F: SIGNATURE

This information will be reviewed and permission to use the water treatment additive may be granted either by letter, permit limitations, or permit modification, if the discharger has supplied the requested product information and toxicity data that will enable IDEM to establish permissible concentrations in each individual case. If the initial information is not sufficient to allow for the establishment of a safe concentration, additional information will be requested.

Proprietary information regarding the chemical composition of any water treatment additive will be kept confidential in accordance with the terms of 327 IAC 12.1. Claims of confidentiality must be made at the time of submittal; the information must be properly marked, segregated and secured at the time of submittal; and the person or company requesting confidentiality must provide justification as to why the information meets the criteria for it to be maintained as a trade secret, privileged information or confidential in accordance with 327 IAC 12.1

This application should include the following and must be signed by a person in responsible charge to be valid. This signature attests to the following:

"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.

I swear or affirm, under penalty of perjury as specified by IC 35-44.1-2-1 and other penalties specified by IC 13-30-10 and IC 13-15-7-1(3), that the statements and representations in this ***NOI*** *are true, accurate, and complete.*

_____ _____

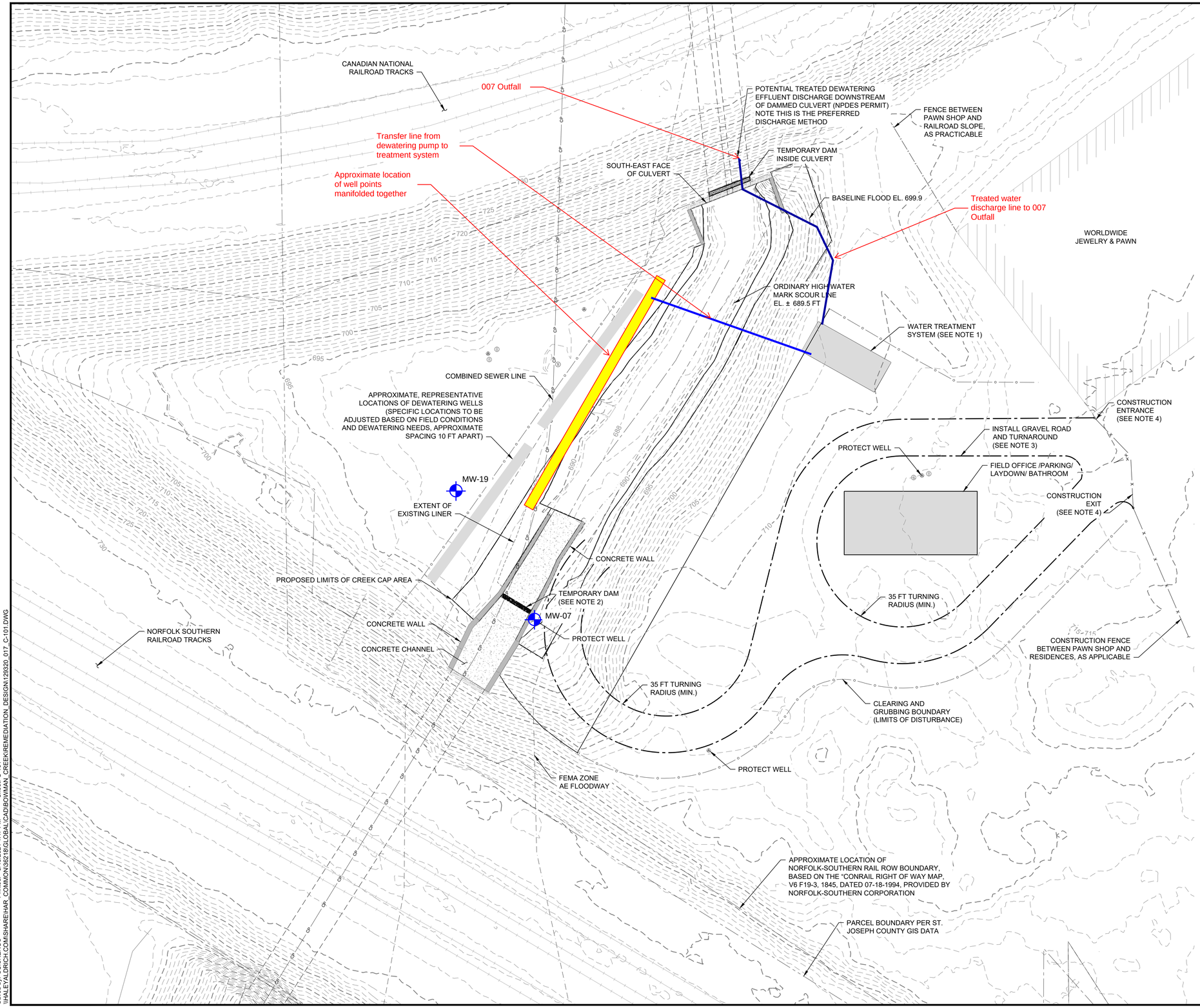
(Printed Name) (Title)

_____ _____

(Signature) (Date Signed) *(mm/dd/yyyy)*

Attachments for Notice of Intent (NOI) Letter for ING420000 Temporary Discharges General NPDES Permit

Site Preparation, Dewatering, Erosion, & Sedimentation Control Plan (Figure C-101)



LEGEND

- 5-FT EXISTING GRADE CONTOUR
- 1-FT EXISTING GRADE CONTOUR
- CREEK CENTERLINE
- FEMA FLOOD LINE
- ORDINARY HIGH WATER MARK SCOUR LINE EL. ± 689.5 FT
- BASE FLOOD ELEVATION EL. 699.9 FT (NAVD88)
- 72- INCH CITY OF SOUTH BEND SANITARY SEWER
- BUILDINGS
- CULVERT FACE
- CONCRETE SPILLWAY
- TEMPORARY DAM
- CLEARING AND GRUBBING BOUNDARY (LIMITS OF DISTURBANCE)
- CHAIN LINKED FENCE WITH SLIDING GATE
- RAILROAD TRACK
- PARCEL BOUNDARY PER ST. JOSEPH COUNTY GIS DATA
- ACCESS ROAD
- SITE FACILITIES/DEWATERING
- PROPOSED CREEK LINER
- APPROXIMATE LOCATION OF NORFOLK-SOUTHERN RAIL ROW BOUNDARY, BASED ON THE "CONRAIL RIGHT OF WAY MAP, V6 F19-3, 1845, DATED 07-18-1994, PROVIDED BY NORFOLK-SOUTHERN CORPORATION

NOTES

1. PUMP FROM UPSTREAM OF SPILLWAY DAM TO DOWNSTREAM OF CULVERT TEMPORARY DAM.
2. EXPAND EXISTING CLEARED PATH AS SHOWN AND SUPPLEMENT WITH GRAVEL AS NEEDED.
3. INSTALL TRACKING CONTROL PAD NEAR ENTRANCE/EXIT.

HALEY ALDRICH

HALEY & ALDRICH, INC.
100 Corporate Place, Suite 105
Rocky Hill, CT 06067-1803
Tel: 860.282.9400
Fax: 860.721.0612
www.haleyaldrich.com

PREPARED FOR:

PERMITTING ONLY. NOT FOR CONSTRUCTION

KEY PLAN
NOT TO SCALE

Project No.:	129320-017
Scale:	AS SHOWN
Date:	JULY 2023
Drawn By:	OS/SC
Designed By:	SB/RB
Checked By:	SC
Approved By:	WJH
Stamp:	

Rev.	Description	By	Date
B	50% DESIGN	SC	08/2024
A	50% DESIGN	SC	04/2024

BOWMAN CREEK
50% DESIGN

PROJECT ADDRESS
SOUTH BEND, INDIANA

SITE PREPARATION, DEWATERING, EROSION & SEDIMENTATION CONTROL PLAN

C-101

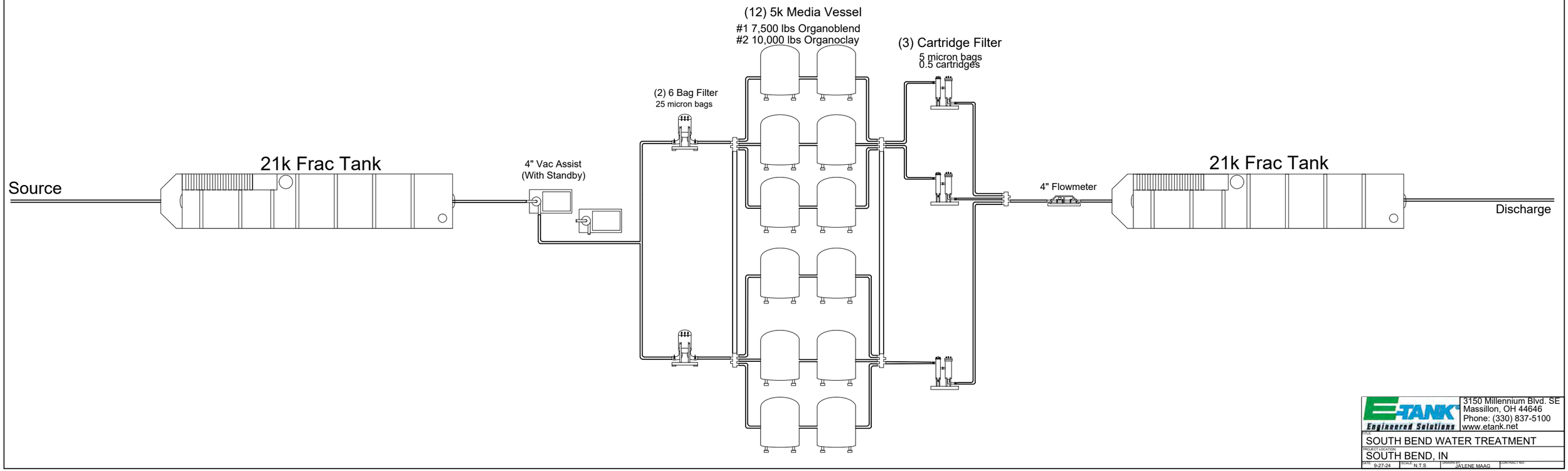
Sheet: 4 of 9

Saved by: SCISNEROS Printed: 8/19/2024 4:47 PM Sheet: C-101
\\HALEYALDRICH.COM\SHARE\HAR_COMMON\362218\GLOBAL\CAD\BOWMAN_CREEK\REMEDIATION_DESIGN\129320_017_C-101.DWG

South Bend Water Treatment Filtration Figure

Notes:

- System designed for 600 GPM



E-TANK Engineered Solutions
3150 Millennium Blvd. SE
Massillon, OH 44646
Phone: (330) 837-5100
www.etank.net

TITLE: SOUTH BEND WATER TREATMENT

PROJECT LOCATION: SOUTH BEND, IN

DATE: 9-27-24 | SCALE: N.T.S | DRAWN BY: JA'LENE MAAG | CONTRACT NO:

Proof of Public Notice
(Affidavit of Publication)

LOCALiQ
South Bend Tribune | The Herald Times
The Times-Mail | Evening World
The Reporter Times
PO Box 630485 Cincinnati, OH 45263-0485

AFFIDAVIT OF PUBLICATION

Haley and Aldrich
8685 State Route 44
Ravenna OH 44266

STATE OF INDIANA, COUNTY OF ST JOSEPH

The South Bend Tribune, a newspaper printed and published in the county of St Joseph, in the State of Indiana, and personal knowledge of the facts herein state and that the notice hereto annexed was Published in said newspaper in the issue dated:

10/03/2024

and that the fees charged are legal.
Sworn to and subscribed before on 10/03/2024

Legal Clerk

Notary, State of WI, County of Brown

10-25-26

My commission expires

Publication Cost:	$93.81	
Tax Amount:	$0.00	
Payment Cost:	$93.81	
Order No:	10631585	# of Copies:
Customer No:	1488116	0
PO #:	LSBN0168984	

THIS IS NOT AN INVOICE!

Please do not use this form for payment remittance.

RYAN SPELLER
Notary Public
State of Wisconsin

Form Prescribed by State Board of Accounts

General Form No. 99P (Rev. 2002)

To: SBN South Bend Tribune

_____

(Government Unit)

_____County, Indiana _____

47 lines, 1.0000 columns wide which equals 47 equivalent lines at $2.00 per line @ 1 days	$93.81
Website Publication	$0.00
Charge for proof(s) of publication	$0.00
TOTAL AMOUNT OF CLAIM	$93.81

Acct #: 1488116

Ad #: 10631585

DATA FOR COMPUTING COST

Width of single column 1.53 in

Number of insertions 1

Size of type 7 point

Claim No. _____ Warrant No. _____

IN FAVOR OF

South Bend Tribune
635 S Lafayette Blvd, Ste 138
South Bend, IN 46601

I have examined the within claim and hereby certify as follows:

That it is in proper form.

That it is duly authenticated as required by law.

That is is based upon statutory authority.

That it is apparently (correct)

(incorrect)

_____

_____

$_____

On Account of Appropriation For

FED ID

83-2810977

Allowed _____, 20_____

In the sum of $_____

_____

I certify that the within claim is true and correct, that the services there-in itemized and for which charge is made were ordered by me and were necessary to the public business.

_____

_____

Notice of National Pollutant Discharge Elimination System General Permit Application

Northern Indiana Public Service Company (NIPSCO), 1039 Pennsylvania Avenue, South Bend, IN, 1072 Lincolnway E, South Bend, IN is submitting a Notice of Intent to notify the Indiana Department of Environmental Management of our intent to comply with the requirements under National Pollutant Discharge Elimination System (NPDES) general permit ING420000 to discharge non-process wastewater on a temporary basis (less than 364 consecutive days) basis. The site will discharge wastewater to dewater a remedial construction project to Bowman Creek.

Any person wishing further information about this discharge may contact Jennifer Williams at (317) 694-4303. The decision to issue coverage under this NPDES general permit for this discharge is appealable as per IC 13-15-6. Any person who wants to be informed of IDEM's decision granting or denying coverage to this facility under this NPDES permit, and who wants to be informed of procedures to appeal the decision, may contact IDEM's offices at OWQWWPWR@Idem.IN.gov to be placed on a mailing list to receive notification of IDEM's decision.

HSPAXLP
October 3 2024
LSBN0168984

Site Inquiry for Permit Applications Memorandum

HALEY & ALDRICH, INC.
6500 Rockside Road
Suite 200
Cleveland, OH 44131
216.739.0555

TECHNICAL MEMORANDUM

4 October 2024
File No. 129320-017

TO: Indiana Department of Environmental Management
Anne Burget, Wetlands Project Manager

FROM: Haley & Aldrich, Inc.
Therese Rowland, Staff Geologist
Sean Carroll, Senior Project Manager

SUBJECT: Site Inquiry for Permit Applications
IDEM General NPDES Permit Notification (ING420000)
Bowman Creek Remedial Measure
South Bend, Indiana

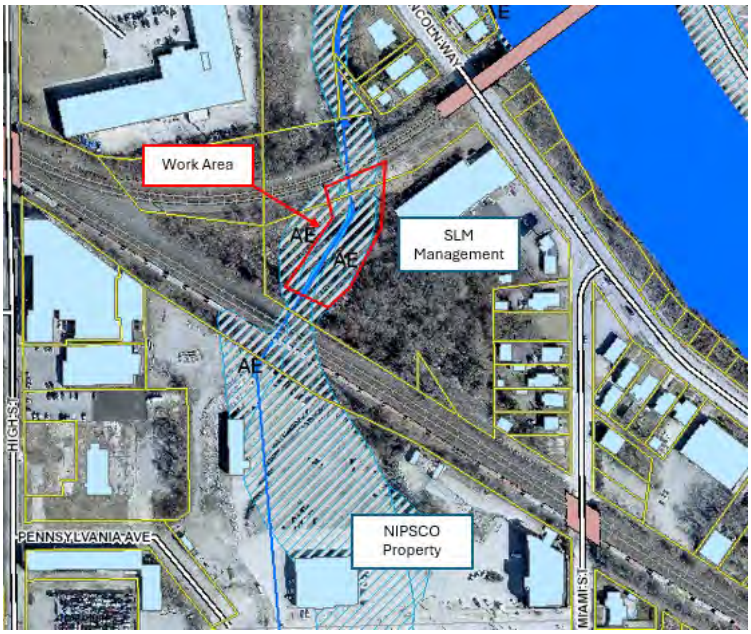
Haley & Aldrich, Inc. is submitting this Site Inquiry as an attachment to the Indiana Department of Environmental Management (IDEM) Notice of Intent Letter for ING420000 Temporary Discharges General National Pollutant Discharge Elimination System (NPDES) permit application on behalf of the Northern Indiana Public Service Company, LLC (NIPSCO). NIPSCO is planning to perform a remedial construction project in Bowman Creek that will require the temporary discharge of treated effluent water downstream of the work area. This work is proposed in response to the occurrence of a sheen in Bowman Creek, located just north of the NIPSCO property, which has been reported to IDEM.

The entire remedial project will require removal of small trees, installation of a series of 15-foot-deep well points for dewatering, excavation of sand, gravel, and cobbles overlying a previously installed impermeable liner, removal of the impermeable liner, placement of a reactive cap, application of epoxy to the concrete spillway, restoration to pre-construction grades and conditions, and replanting to re-establish vegetation in the disturbed area.

Background

The project work area is located in and adjacent to Bowman Creek in St. Joseph County (“project Site”) downstream of the NIPSCO Local Operating Area (LOA) former manufactured gas plant (MGP) located at 1039 East Pennsylvania Avenue, west of the intersection of Miami Street and Pennsylvania Avenue, in South Bend, Indiana. The MGP project is enrolled in the IDEM Voluntary Remediation Program (VRP); the VRP ID number for the South Bend Former MGP site is #6031203.

This work is proposed in response to the occurrence of MGP-related contamination (sheen) in Bowman Creek, located off-property and just north of the NIPSCO property, which has been reported to IDEM. The work area is located on a parcel owned by SLM Management LLC (SLM Management). The general work area is shown in the figure below.



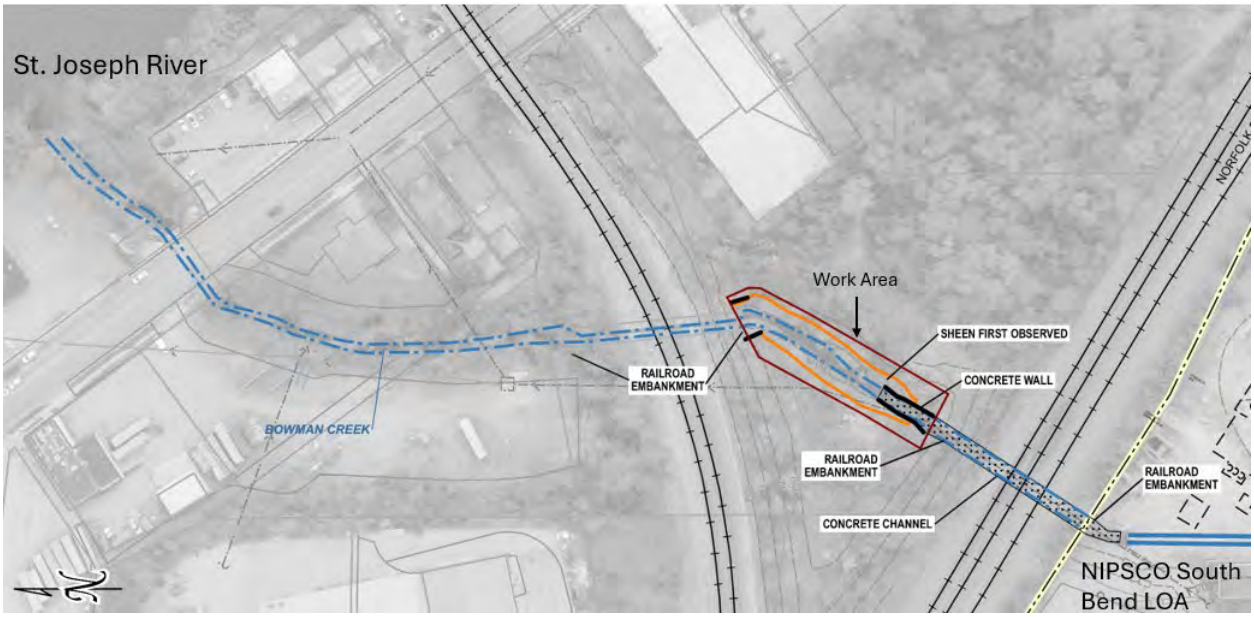
Section 401 Water Quality Certification permit has been submitted and approved by IDEM on 16 September 2024. Pending permits for this work also include the U.S. Army Corps of Engineers Nationwide Permit Pre-Construction Notification and Indiana Department of Natural Resources Construction in a Floodway (both submitted on 30 August 2024). Dewatering is expected to begin in November 2024. Groundwater samples were collected from two monitoring wells (MW-07 and MW-19) in the work area as shown on Figure C-101 on 10 September 2024 for groundwater characterization as part of the NPDES permit (Appendix B).

The LOA is currently owned and occupied by NIPSCO. The project Site contact at NIPSCO is:

Jennifer Williams
Northern Indiana Public Service Company, LLC
150 W. Market Street, Suite 600
Indianapolis, Indiana 46204
Phone: 317.694.4303
Email: jenniferwilliams@NiSource.com

CURRENT AND HISTORICAL USES OF THE PROJECT SITE

The project Site includes an area of Bowman Creek between the Norfolk Southern rail embankment and the Grand Trunk Western Railroad rail embankment as shown in the figure on the following page.

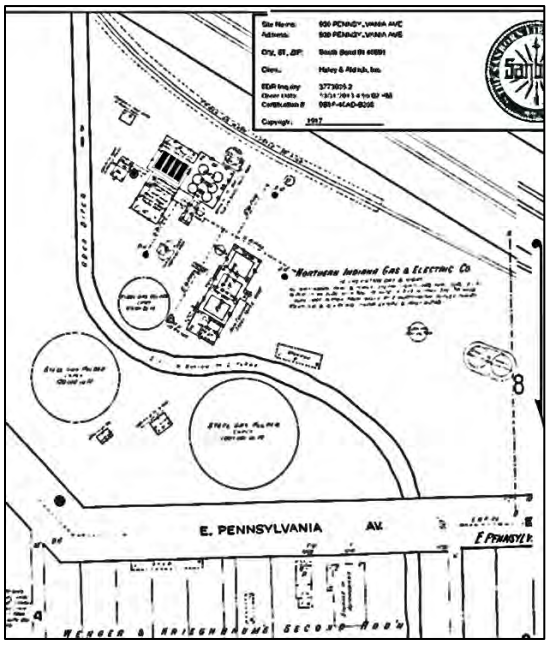


Bowman Creek has historically been diverted into culverts, concrete channels, and narrow stream channels to enable development of the area. Upstream (south) of the NIPSCO LOA, Bowman Creek flows through culverts over portions of its path, such as under Riley High School. Bowman Creek flows through a culvert from the southern boundary of the LOA (East Broadway Street) to an open concrete channel at the northern end of the NIPSCO LOA. The creek flows in this concrete channel through a tunnel that runs through the Norfolk Southern railroad embankment just north of the NIPSCO LOA into the proposed project Site. The current project Site is undeveloped and has historically been undeveloped.

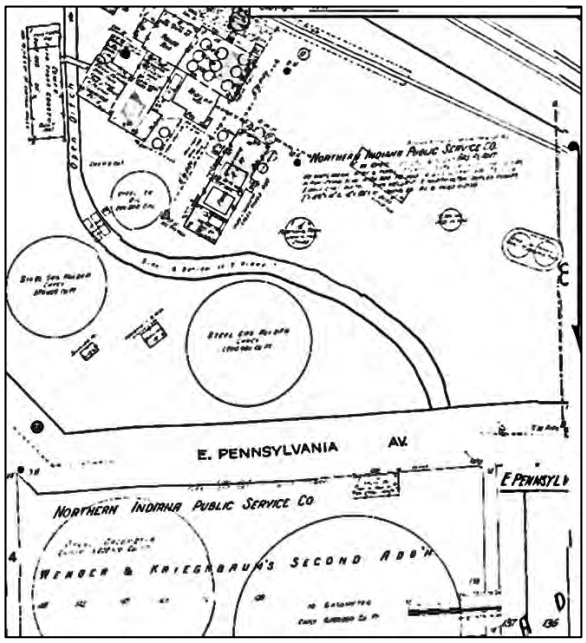
Adjacent Property History

NIPSCO SOUTH BEND LOA

The NIPSCO South Bend Former MGP, located adjacent south of the project Site, was constructed and began operations in the early 1900s north of Pennsylvania Avenue and south of what is now the Norfolk Southern railroad embankment. Gas production operations took place in the northwestern section of the property, north of Pennsylvania Avenue (refer to the historical Sanborn Fire Insurance Maps [Sanborn maps] below). The Sanborn maps indicate that various entities, including the Northern Indiana Gas and Electric Company (circa 1917) and NIPSCO (circa 1949), operated the MGP.



1917 Sanborn Map



1949 Sanborn Map

By 1939, the MGP was expanded south of Pennsylvania Avenue with the addition of the southwestern gasometer (gas holder) shown in the Figures above; by 1949, two iron gas holders had been constructed between Pennsylvania Avenue and Broadway Street. By the early 1950s, the MGP was at its maximum extent, and in 1953, MGP operations ceased. Since the MGP was decommissioned, NIPSCO has used the property as a LOA to support NIPSCO operations.

WORLDWIDE JEWELRY & PAWN

Worldwide Jewelry & Pawn is located adjacent to the proposed work area with an address of 1072 Lincolnway E, South Bend, Indiana. The business is owned by SLM Management, located in Bristol, Indiana. SLM Management owns a large parcel of land that includes both the pawn shop, and the project Site where the proposed construction will be performed. NIPSCO is in communication with SLM Management, negotiating an access agreement to perform the proposed work. Worldwide Jewelry & Pawn has been conducting business as a pawn shop at this location for approximately 24 years. Regulatory searches (EPA Envirofacts and Enforcement and Compliance History) of the address and the business name indicated that no records exist in the database.

Probable Hazardous Substances

FORMER MGP-RELATED CONTAMINANTS OF CONCERN – NIPSCO AND PROJECT SITE

Contaminants of concern at the adjacent NIPSCO South Bend LOA are typical MGP constituents, such as benzene, benzo(a)anthracene, benzo(a)pyrene, naphthalene, and methylnaphthalene. Lead has historically been detected in monitoring well MW-19, located along the northwestern side of Bowman

Creek near the project Site; however, these concentrations are likely due to high turbidity conditions during sample collection (samples collected with a bailer) and are either naturally occurring or related to historically placed fill, such as the rail embankments (unrelated to the MGP). Quarterly groundwater sampling is ongoing to monitor the MGP-related dissolved-phase plume.

Groundwater flow is generally northward, toward the St. Joseph River. Former MGP operations have resulted in a downgradient dissolved-phase groundwater plume extending approximately 300 to 500 feet north-northeast of the NIPSCO property. The extent of MGP contamination in groundwater, including the extent of the dissolved-phase plume both on- and off-property, have been delineated over the course of multiple subsurface investigations beginning in 1997. The dissolved-phase plume is generally stable or decreasing.

Since 2022, sheen and oil-like material have been observed on Bowman Creek near the spillway at the northern end of the Norfolk Southern rail embankment, just downstream of the NIPSCO site. NIPSCO responded to the sheen with an interim measure, installing reactive materials at the edge of the spillway in December 2022 to temporarily address sheen formation at the liner-concrete connection while a more permanent remedy was designed.

The project Site is not currently subject to risk-based corrective action due to a known petroleum release from an underground storage tank.

Appendix B
Summary of Groundwater Quality Data Table

APPENDIX B
SUMMARY OF GROUNDWATER QUALITY DATA
SOUTH BEND LOA FORMER MGP SITE
SOUTH BEND, INDIANA
FILE NO. 0129320

Location Name Sample Name Sample Date Lab Sample ID	Method And Detection Limits	MW-07 MW07-091024-1140 09/10/2024 042418849-0002 199806-2 50382036002	MW-19 MW19-091024-1240 09/10/2024 042418849-0001 199806-1 50382036001
Volatile Organic Compounds (µg/L)	**EPA 624.1, EPA 5030**		
1,1,1-Trichloroethane	5	ND (5)	ND (5)
1,1,2,2-Tetrachloroethane	5	ND (5)	ND (5)
1,1,2-Trichloroethane	5	ND (5)	ND (5)
1,1-Dichloroethane	5	ND (5)	ND (5)
1,1-Dichloroethene	5	ND (5)	ND (5)
1,2-Dibromoethane (Ethylene Dibromide)	5	ND (5)	ND (5)
1,2-Dichlorobenzene	5	ND (5)	ND (5)
1,2-Dichloroethane	5	ND (5)	ND (5)
1,2-Dichloropropane	5	ND (5)	ND (5)
1,3-Dichlorobenzene	5	ND (5)	ND (5)
1,4-Dichlorobenzene	5	ND (5)	ND (5)
2-Butanone (Methyl Ethyl Ketone)	1000	ND (1000)	ND (1000)
2-Chloroethyl vinyl ether	50	ND (50)	ND (50)
Benzene	5	ND (5)	ND (5)
Bromodichloromethane	5	ND (5)	ND (5)
Bromoform	5	ND (5)	ND (5)
Bromomethane (Methyl Bromide)	5	ND (5)	ND (5)
Carbon tetrachloride	5	ND (5)	ND (5)
Chlorobenzene	5	ND (5)	ND (5)
Chloroethane	5	ND (5)	ND (5)
Chloroform (Trichloromethane)	4.8	ND (4.8)	ND (4.8)
Chloromethane (Methyl Chloride)	5	ND (5)	ND (5)
cis-1,2-Dichloroethene	5	ND (5)	ND (5)
cis-1,3-Dichloropropene	5	ND (5)	ND (5)
Dibromochloromethane	5	ND (5)	ND (5)
Ethylbenzene	5	ND (5)	ND (5)
Methyl Tert Butyl Ether (MTBE)	5	ND (5)	ND (5)
Methylene chloride (Dichloromethane)	5	ND (5)	ND (5)
Naphthalene	5	**13**	ND (5)
Tetrachloroethene	5	ND (5)	**8.4**
Toluene	5	ND (5)	ND (5)
trans-1,2-Dichloroethene	4.8	ND (4.8)	ND (4.8)
trans-1,3-Dichloropropene	5	ND (5)	ND (5)
Trichloroethene	5	ND (5)	ND (5)
Trichlorofluoromethane (CFC-11)	5	ND (5)	ND (5)
Vinyl chloride	2	ND (2)	ND (2)
Xylene (Total)	10	ND (10)	ND (10)
Semi-Volatile Organic Compounds (µg/L)	**EPA 625.1**		
1,2,4-Trichlorobenzene	10	ND (10)	ND (10)
1,2-Dichlorobenzene	10	ND (10)	ND (10)
1,2-Diphenylhydrazine	10	ND (10)	ND (10)
1,3-Dichlorobenzene	10	ND (10)	ND (10)
1,4-Dichlorobenzene	10	ND (10)	ND (10)
2,2'-oxybis(1-Chloropropane)	10	ND (10)	ND (10)
2,4,6-Trichlorophenol	10	ND (10)	ND (10)
2,4-Dichlorophenol	10	ND (10)	ND (10)
2,4-Dimethylphenol	10	ND (10)	ND (10)
2,4-Dinitrophenol	50	ND (50)	ND (50)
2,4-Dinitrotoluene	10	ND (10)	ND (10)
2,6-Dinitrotoluene	10	ND (10)	ND (10)
2-Chloronaphthalene	10	ND (10)	ND (10)
2-Chlorophenol	10	ND (10)	ND (10)
2-Nitrophenol	10	ND (10)	ND (10)
3,3'-Dichlorobenzidine	20	ND (20)	ND (20)
4,6-Dinitro-2-methylphenol	50	ND (50)	ND (50)
4-Bromophenyl phenyl ether (BDE-3)	10	ND (10)	ND (10)
4-Chloro-3-methylphenol	20	ND (20)	ND (20)
4-Chlorophenyl phenyl ether	10	ND (10)	ND (10)
4-Nitrophenol	50	ND (50)	ND (50)
Acenaphthene	10	**34.8**	ND (10)
Acenaphthylene	10	ND (10)	ND (10)
Anthracene	10	ND (10)	ND (10)
Benzidine	50	ND (50)	ND (50)
Benzo(a)anthracene	10	ND (10)	ND (10)
Benzo(a)pyrene	10	ND (10)	ND (10)
Benzo(b)fluoranthene	10	ND (10)	ND (10)
Benzo(g,h,i)perylene	10	ND (10)	ND (10)
Benzo(k)fluoranthene	10	ND (10)	ND (10)
bis(2-Chloroethoxy)methane	10	ND (10)	ND (10)
bis(2-Chloroethyl)ether	10	ND (10)	ND (10)
bis(2-Ethylhexyl)phthalate	5	ND (5)	ND (5)
Butyl benzylphthalate (BBP)	10	ND (10)	ND (10)
Chrysene	10	ND (10)	ND (10)
Dibenz(a,h)anthracene	10	ND (10)	ND (10)
Diethyl phthalate	10	ND (10)	ND (10)
Dimethyl phthalate	10	ND (10)	ND (10)
Di-n-butylphthalate (DBP)	10	ND (10)	ND (10)
Di-n-octyl phthalate (DnOP)	10	ND (10)	ND (10)
Fluoranthene	10	ND (10)	ND (10)
Fluorene	10	**19.5**	ND (10)
Hexachlorobenzene	10	ND (10)	ND (10)
Hexachlorobutadiene	10	ND (10)	ND (10)
Hexachlorocyclopentadiene	20	ND (20)	ND (20)
Hexachloroethane	10	ND (10)	ND (10)
Indeno(1,2,3-cd)pyrene	10	ND (10)	ND (10)
Isophorone	10	ND (10)	ND (10)
Naphthalene	10	ND (10)	ND (10)
Nitrobenzene	10	ND (10)	ND (10)
N-Nitrosodimethylamine	20	ND (20)	ND (20)
N-Nitrosodi-n-propylamine	10	ND (10)	ND (10)
N-Nitrosodiphenylamine	10	ND (10)	ND (10)
Pentachlorophenol	50	ND (50)	ND (50)
Phenanthrene	10	**27.8**	ND (10)
Phenol	10	ND (10)	ND (10)
Pyrene	10	ND (10)	ND (10)
Total Petroleum Hydrocarbons (mg/L)	**EPA 1664A**		
Oil and Grease (HEM), Total	5.1, 5.3	ND (5.3)	ND (5.1)
Inorganic Compounds (µg/L)	**EPA 335.4**		
Cyanide (free)	100	**100**	ND (100)
Inorganic Compounds (ng/L)	**EPA 1631E**		
Mercury, Total	0.5	**0.65**	ND (0.5)
Inorganic Compounds (µg/L)	**EPA 200.8, EPA 200.7**		
Antimony, Total	1	ND (1)	ND (1)
Arsenic, Total	1	**9**	ND (1)
Beryllium, Total	0.2	ND (0.2)	ND (0.2)
Cadmium, Total	0.2	ND (0.2)	ND (0.2)
Chromium, Total	2	ND (2)	ND (2)
Copper, Total	1	ND (1)	ND (1)
Hardness, Total	10000	**386000**	**383000**
Lead, Total	1	ND (1)	ND (1)
Nickel, Total	1	**1.1**	**1.1**
Selenium, Total	1	ND (1)	**1.6**
Silver, Total	0.5	ND (0.5)	ND (0.5)
Thallium, Total	1	ND (1)	ND (1)
Zinc, Total	3	ND (3)	ND (3)

APPENDIX B
SUMMARY OF GROUNDWATER QUALITY DATA
SOUTH BEND LOA FORMER MGP SITE
SOUTH BEND, INDIANA
FILE NO. 0129320

Location Name Sample Name Sample Date Lab Sample ID	Method And Detection Limits	MW-07 MW07-091024-1140 09/10/2024 042418849-0002 199806-2 50382036002	MW-19 MW19-091024-1240 09/10/2024 042418849-0001 199806-1 50382036001
Other	**EPA 300.0, SM 2540D, SM5210B, EPA 335.4, EPA 350.1, SM 5310C, EPA 9014**		
Asbestos (MFL)	5.2, 0.52	ND (5.2)	ND (0.52)
Ammonia (as N) (mg/L)	0.1	**0.51**	ND (0.1)
Biochemical Oxygen Demand (BOD), 5 Day (mg/L)	2	**2.4**	**2**
Chloride (mg/L)	0.25	**87.7**	**82.3**
Cyanide (mg/L)	0.005	ND (0.005)	ND (0.005)
Chlorine, Residual (Field Tested, ppm)	0.00 - 4	**0.01**	0.00
Sulfate (mg/L)	0.25	**7.5**	**34.3**
Total Organic Carbon (TOC) - Rep1 (mg/L)	1.	**3.1**	ND (1)
Total Suspended Solids (TSS) (mg/L)	2.5	**19.6**	ND (2.5)
Escherichia coli (mpn/100mL)	1	**1**	ND (1)
Pesticides and PCBs (µg/L)	**EPA 608.3**		
4,4'-DDD	0.1	ND (0.1)	ND (0.1)
4,4'-DDE	0.1	ND (0.1)	ND (0.1)
4,4'-DDT	0.1	ND (0.1)	ND (0.1)
Aldrin	0.05	ND (0.05)	ND (0.05)
alpha-BHC	0.05	ND (0.05)	ND (0.05)
alpha-Chlordane (cis)	0.05	ND (0.05)	ND (0.05)
Aroclor-1016 (PCB-1016)	0.11	ND (0.11)	ND (0.11)
Aroclor-1221 (PCB-1221)	0.11	ND (0.11)	ND (0.11)
Aroclor-1232 (PCB-1232)	0.11	ND (0.11)	ND (0.11)
Aroclor-1242 (PCB-1242)	0.11	ND (0.11)	ND (0.11)
Aroclor-1248 (PCB-1248)	0.11	ND (0.11)	ND (0.11)
Aroclor-1254 (PCB-1254)	0.11	ND (0.11)	ND (0.11)
Aroclor-1260 (PCB-1260)	0.11	ND (0.11)	ND (0.11)
beta-BHC	0.05	ND (0.05)	ND (0.05)
Chlordane	0.5	ND (0.5)	ND (0.5)
delta-BHC	0.05	ND (0.05)	ND (0.05)
Dieldrin	0.1	ND (0.1)	ND (0.1)
Endosulfan I	0.05	ND (0.05)	ND (0.05)
Endosulfan II	0.1	ND (0.1)	ND (0.1)
Endosulfan sulfate	0.1	ND (0.1)	ND (0.1)
Endrin	0.1	ND (0.1)	ND (0.1)
Endrin aldehyde	0.1	ND (0.1)	ND (0.1)
Endrin ketone	0.1	ND (0.1)	ND (0.1)
gamma-BHC (Lindane)	0.05	ND (0.05)	ND (0.05)
gamma-Chlordane (trans)	0.05	ND (0.05)	ND (0.05)
Heptachlor	0.05	ND (0.05)	ND (0.05)
Heptachlor epoxide	0.05	ND (0.05)	ND (0.05)
Methoxychlor	0.05	ND (0.5)	ND (0.5)
Toxaphene	1	ND (1)	ND (1)

Notes:

1. *Results in **bold** are detected.*
2. *ND (#): Not detected above the indicated reporting limit.*
3. *µg/L = microgram per liter*
4. *mg/L = milligram per liter*
5. *ng/L = nanogram per liter*
6. *MFL = million fibers per liter*
7. *mpn/mL = most probable number per milliliter*
8. *ppm = parts per million*

Laboratory Analytical Report
Pace Analytical Services, LLC #50382036

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

September 18, 2024

Ms. Jennifer Williams
NiSource
150 W Market Street
Suite 600
Indianapolis, IN 46204

RE: Project: South Bend NPDES
Pace Project No.: 50382036

Dear Ms. Williams:

Enclosed are the analytical results for sample(s) received by the laboratory on September 10, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Ms. Trina Dennison, Haley & Aldrich
Ms. Heather March, Haley & Aldrich
Therese Rowland, Haley & Aldrich

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: South Bend NPDES
Pace Project No.: 50382036

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: South Bend NPDES
Pace Project No.: 50382036

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50382036001	**MW19-091024-1240**	Water	09/10/24 12:40	09/10/24 17:00
50382036002	**MW07-091024-1140**	Water	09/10/24 11:40	09/10/24 17:00
50382036003	**20988-091024-0001**	Water	09/10/24 08:00	09/10/24 17:00

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: South Bend NPDES
Pace Project No.: 50382036

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50382036001	**MW19-091024-1240**	EPA 1631E	EEM	1	PASI-I
		EPA 1664A	GLT	1	PASI-I
		EPA 300.0	ADM	2	PASI-I
		EPA 608.3	BJW	8	PASI-I
		EPA 608.3	KAV	23	PASI-I
		EPA 200.7	JPK	1	PASI-I
		EPA 200.8	DMT	12	PASI-I
		EPA 625.1	FIP	63	PASI-I
		EPA 624.1	TAY	39	PASI-I
		EPA 5030/8260	BES	13	PASI-I
		SM 2540D	SL	1	PASI-I
		SM 5210B	SMS2	1	PASI-I
		EPA 335.4	OAS	1	PASI-I
		EPA 350.1	OAS	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9014 Free Cyanide	ZM	1	PASI-I
50382036002	**MW07-091024-1140**	EPA 1631E	EEM	1	PASI-I
		EPA 1664A	GLT	1	PASI-I
		EPA 300.0	ADM	2	PASI-I
		EPA 608.3	BJW	8	PASI-I
		EPA 608.3	KAV	23	PASI-I
		EPA 200.7	JPK	1	PASI-I
		EPA 200.8	DMT	12	PASI-I
		EPA 625.1	FIP	63	PASI-I
		EPA 624.1	ALA	39	PASI-I
		EPA 5030/8260	BES	13	PASI-I
		SM 2540D	SL	1	PASI-I
		SM 5210B	SMS2	1	PASI-I
		EPA 335.4	OAS	1	PASI-I
		EPA 350.1	OAS	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9014 Free Cyanide	ZM	1	PASI-I
50382036003	**20988-091024-0001**	EPA 624.1	TAY	39	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: South Bend NPDES
Pace Project No.: 50382036

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50382036001	**MW19-091024-1240**					
EPA 300.0	Chloride	82.3	mg/L	2.5	09/14/24 13:00	
EPA 300.0	Sulfate	34.3	mg/L	0.25	09/14/24 12:44	
EPA 200.7	Total Hardness by 2340B	383000	ug/L	10000	09/12/24 23:18	
EPA 200.8	Nickel	1.1	ug/L	1.0	09/13/24 05:36	
EPA 200.8	Selenium	1.6	ug/L	1.0	09/13/24 05:36	
EPA 624.1	Tetrachloroethene	8.4	ug/L	5.0	09/11/24 15:03	
50382036002	**MW07-091024-1140**					
EPA 1631E	Mercury	0.650	ng/L	0.50	09/16/24 20:10	
EPA 300.0	Chloride	87.7	mg/L	2.5	09/14/24 13:49	
EPA 300.0	Sulfate	7.5	mg/L	0.25	09/14/24 13:32	
EPA 200.7	Total Hardness by 2340B	386000	ug/L	10000	09/12/24 23:20	
EPA 200.8	Arsenic	9.0	ug/L	1.0	09/13/24 05:39	
EPA 200.8	Nickel	1.1	ug/L	1.0	09/13/24 05:39	
EPA 625.1	Acenaphthene	34.8	ug/L	10.0	09/12/24 19:19	
EPA 625.1	Fluorene	19.5	ug/L	10.0	09/12/24 19:19	
EPA 625.1	Phenanthrene	27.8	ug/L	10.0	09/12/24 19:19	
EPA 624.1	Naphthalene	13.0	ug/L	5.0	09/13/24 17:47	
SM 2540D	Total Suspended Solids	19.6	mg/L	5.0	09/13/24 11:08	
SM 5210B	BOD, 5 day	2.4	mg/L	2.0	09/16/24 11:40	R6
EPA 350.1	Nitrogen, Ammonia	0.51	mg/L	0.10	09/13/24 15:20	
SM 5310C	Total Organic Carbon	3.1	mg/L	1.0	09/13/24 00:27	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **EPA 1631E**
Description: 1631E Mercury, Low Level
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

General Information:
2 samples were analyzed for EPA 1631E by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **EPA 1664A**
Description: HEM, Oil and Grease
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

General Information:
2 samples were analyzed for EPA 1664A by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 808936

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50381841001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 3700082)
  - Oil and Grease

Additional Comments:

Batch Comments:

BM: Matrix precision data could not be provided for this analytical batch due to insufficient sample volume.

- QC Batch: 808936

- QC Batch: 808936

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **EPA 1664A**
Description: HEM, Oil and Grease
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

Analyte Comments:

QC Batch: 808936

BM: Matrix precision data could not be provided for this analytical batch due to insufficient sample volume.

- BLANK (Lab ID: 3700080)
  - Oil and Grease
- LCS (Lab ID: 3700081)
  - Oil and Grease
- MS (Lab ID: 3700082)
  - Oil and Grease
- MW07-091024-1140 (Lab ID: 50382036002)
  - Oil and Grease
- MW19-091024-1240 (Lab ID: 50382036001)
  - Oil and Grease

P2: Re-extraction or re-analysis could not be performed due to insufficient sample amount.

- MS (Lab ID: 3700082)
  - Oil and Grease

- BLANK (Lab ID: 3700080)
  - Oil and Grease
- LCS (Lab ID: 3700081)
  - Oil and Grease
- MS (Lab ID: 3700082)
  - Oil and Grease
- MW07-091024-1140 (Lab ID: 50382036002)
  - Oil and Grease
- MW19-091024-1240 (Lab ID: 50382036001)
  - Oil and Grease

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

General Information:
2 samples were analyzed for EPA 300.0 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **EPA 608.3**
Description: 608.3 PCB
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

General Information:
2 samples were analyzed for EPA 608.3 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 608.3 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **EPA 608.3**
Description: 608.3 Pesticides
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

General Information:
2 samples were analyzed for EPA 608.3 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 608.3 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 808839

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3699643)
  - alpha-Chlordane
  - gamma-Chlordane
  - Endrin ketone
- LCS (Lab ID: 3699644)
  - alpha-Chlordane
  - gamma-Chlordane
  - Endrin ketone

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **EPA 608.3**
Description: 608.3 Pesticides
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

Analyte Comments:

QC Batch: 808839

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- MW07-091024-1140 (Lab ID: 50382036002)
  - alpha-Chlordane
  - gamma-Chlordane
  - Endrin ketone
- MW19-091024-1240 (Lab ID: 50382036001)
  - alpha-Chlordane
  - gamma-Chlordane
  - Endrin ketone

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

General Information:
2 samples were analyzed for EPA 200.7 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **EPA 200.8**
Description: 200.8 Metals, Total ICPMS
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

General Information:
2 samples were analyzed for EPA 200.8 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **EPA 625.1**
Description: 625.1 MSSV
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

General Information:
2 samples were analyzed for EPA 625.1 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 625.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 808602

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 3698031)
  - Benzidine

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 808602

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50382036001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 3698032)
  - Benzidine

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **EPA 625.1**
Description: 625.1 MSSV
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 808602

P2: Re-extraction or re-analysis could not be performed due to insufficient sample amount.

- MW19-091024-1240 (Lab ID: 50382036001)
  - Benzidine

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **EPA 624.1**
Description: 624.1 Volatile Organics
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

General Information:
3 samples were analyzed for EPA 624.1 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 808446

LS: Analyte recovery in the laboratory control sample (LCS) was outside QC limits for one or more of the constituent analytes used in the calculated result.

- LCS (Lab ID: 3697168)
  - Xylene (Total)

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 808446

1d: Neither matrix spike nor matrix precision data could be provided for this analytical batch due to insufficient sample volume.

- BLANK (Lab ID: 3697167)
  - Dibromofluoromethane (S)

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **EPA 624.1**
Description: 624.1 Volatile Organics
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

Analyte Comments:

QC Batch: 808446

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- 20988-091024-0001 (Lab ID: 50382036003)
  - 1,2-Dibromoethane (EDB)
  - Methyl-tert-butyl ether
- BLANK (Lab ID: 3697167)
  - 1,2-Dibromoethane (EDB)
  - Methyl-tert-butyl ether
- LCS (Lab ID: 3697168)
  - 1,2-Dibromoethane (EDB)
  - Methyl-tert-butyl ether
- MW19-091024-1240 (Lab ID: 50382036001)
  - 1,2-Dibromoethane (EDB)
  - Methyl-tert-butyl ether

QC Batch: 808955

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3700360)
  - 1,2-Dibromoethane (EDB)
  - Methyl-tert-butyl ether
- LCS (Lab ID: 3700361)
  - 1,2-Dibromoethane (EDB)
  - Methyl-tert-butyl ether
- MS (Lab ID: 3700362)
  - 1,2-Dibromoethane (EDB)
  - Methyl-tert-butyl ether
- MSD (Lab ID: 3700363)
  - 1,2-Dibromoethane (EDB)
  - Methyl-tert-butyl ether
- MW07-091024-1140 (Lab ID: 50382036002)
  - 1,2-Dibromoethane (EDB)
  - Methyl-tert-butyl ether

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **EPA 5030/8260**
Description: 8260 MSV TCLP
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

General Information:
2 samples were analyzed for EPA 5030/8260 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

General Information:
2 samples were analyzed for SM 2540D by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **SM 5210B**
Description: 5210B BOD, 5 day
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

General Information:
2 samples were analyzed for SM 5210B by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with SM 5210B with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 808370

B3: The dissolved oxygen depletion of the dilution water blank exceeded 0.2 mg/L.

- BLANK (Lab ID: 3696942)
  - BOD, 5 day

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

General Information:
2 samples were analyzed for EPA 335.4 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 335.4 with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **EPA 350.1**
Description: 350.1 Ammonia
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

General Information:
2 samples were analyzed for EPA 350.1 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **SM 5310C**
Description: 5310C TOC
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

General Information:
2 samples were analyzed for SM 5310C by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: South Bend NPDES
Pace Project No.: 50382036

Method: **EPA 9014 Free Cyanide**
Description: 9014 Cyanide, Free
Client: NiSource_Haley & Aldrich
Date: September 18, 2024

General Information:
2 samples were analyzed for EPA 9014 Free Cyanide by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 808480

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3697329)
  - Cyanide, Free
- LCS (Lab ID: 3697330)
  - Cyanide, Free
- MS (Lab ID: 3697331)
  - Cyanide, Free
- MSD (Lab ID: 3697332)
  - Cyanide, Free
- MW07-091024-1140 (Lab ID: 50382036002)
  - Cyanide, Free
- MW19-091024-1240 (Lab ID: 50382036001)
  - Cyanide, Free

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: South Bend NPDES
Pace Project No.: 50382036

Sample: MW19-091024-1240 **Lab ID: 50382036001** Collected: 09/10/24 12:40 Received: 09/10/24 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E Initial Volume/Weight: 250 mL Final Volume/Weight: 250 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ng/L	0.50	1	09/15/24 23:48	09/16/24 19:23	7439-97-6	
HEM, Oil and Grease	Analytical Method: EPA 1664A Initial Volume/Weight: 980 mL Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis							
Oil and Grease	ND	mg/L	5.1	1		09/13/24 14:49		BM
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**82.3**	mg/L	2.5	10		09/14/24 13:00	16887-00-6	
Sulfate	**34.3**	mg/L	0.25	1		09/14/24 12:44	14808-79-8	
608.3 PCB	Analytical Method: EPA 608.3 Preparation Method: EPA 608.3 Initial Volume/Weight: 950 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis							
PCB-1016 (Aroclor 1016)	ND	ug/L	0.11	1	09/11/24 14:26	09/16/24 14:39	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.11	1	09/11/24 14:26	09/16/24 14:39	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.11	1	09/11/24 14:26	09/16/24 14:39	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.11	1	09/11/24 14:26	09/16/24 14:39	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.11	1	09/11/24 14:26	09/16/24 14:39	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.11	1	09/11/24 14:26	09/16/24 14:39	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.11	1	09/11/24 14:26	09/16/24 14:39	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	67	%.	1-112	1	09/11/24 14:26	09/16/24 14:39	877-09-8	
608.3 Pesticides	Analytical Method: EPA 608.3 Preparation Method: EPA 608.3 Initial Volume/Weight: 1000 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis							
Aldrin	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:28	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:28	319-84-6	
beta-BHC	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:28	319-85-7	
delta-BHC	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:28	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:28	58-89-9	
Chlordane (Technical)	ND	ug/L	0.50	1	09/13/24 11:09	09/16/24 19:28	57-74-9	
alpha-Chlordane	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:28	5103-71-9	N2
gamma-Chlordane	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:28	5103-74-2	N2
4,4'-DDD	ND	ug/L	0.10	1	09/13/24 11:09	09/16/24 19:28	72-54-8	
4,4'-DDE	ND	ug/L	0.10	1	09/13/24 11:09	09/16/24 19:28	72-55-9	
4,4'-DDT	ND	ug/L	0.10	1	09/13/24 11:09	09/16/24 19:28	50-29-3	
Dieldrin	ND	ug/L	0.10	1	09/13/24 11:09	09/16/24 19:28	60-57-1	
Endosulfan I	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:28	959-98-8	
Endosulfan II	ND	ug/L	0.10	1	09/13/24 11:09	09/16/24 19:28	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.10	1	09/13/24 11:09	09/16/24 19:28	1031-07-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: South Bend NPDES
Pace Project No.: 50382036

Sample: MW19-091024-1240 **Lab ID: 50382036001** Collected: 09/10/24 12:40 Received: 09/10/24 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
608.3 Pesticides	Analytical Method: EPA 608.3 Preparation Method: EPA 608.3 Initial Volume/Weight: 1000 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis							
Endrin	ND	ug/L	0.10	1	09/13/24 11:09	09/16/24 19:28	72-20-8	
Endrin aldehyde	ND	ug/L	0.10	1	09/13/24 11:09	09/16/24 19:28	7421-93-4	
Endrin ketone	ND	ug/L	0.10	1	09/13/24 11:09	09/16/24 19:28	53494-70-5	N2
Heptachlor	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:28	76-44-8	
Heptachlor epoxide	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:28	1024-57-3	
Methoxychlor	ND	ug/L	0.50	1	09/13/24 11:09	09/16/24 19:28	72-43-5	
Toxaphene	ND	ug/L	1.0	1	09/13/24 11:09	09/16/24 19:28	8001-35-2	
Surrogates								
Decachlorobiphenyl (S)	73	%.	1-133	1	09/13/24 11:09	09/16/24 19:28	2051-24-3	
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Total Hardness by 2340B	**383000**	ug/L	10000	1	09/11/24 20:24	09/12/24 23:18		
200.8 Metals, Total ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	1	09/12/24 09:00	09/13/24 05:36	7440-36-0	
Arsenic	ND	ug/L	1.0	1	09/12/24 09:00	09/13/24 05:36	7440-38-2	
Beryllium	ND	ug/L	0.20	1	09/12/24 09:00	09/13/24 05:36	7440-41-7	
Cadmium	ND	ug/L	0.20	1	09/12/24 09:00	09/13/24 05:36	7440-43-9	
Chromium	ND	ug/L	2.0	1	09/12/24 09:00	09/13/24 05:36	7440-47-3	
Copper	ND	ug/L	1.0	1	09/12/24 09:00	09/13/24 05:36	7440-50-8	
Lead	ND	ug/L	1.0	1	09/12/24 09:00	09/13/24 05:36	7439-92-1	
Nickel	**1.1**	ug/L	1.0	1	09/12/24 09:00	09/13/24 05:36	7440-02-0	
Selenium	**1.6**	ug/L	1.0	1	09/12/24 09:00	09/13/24 05:36	7782-49-2	
Silver	ND	ug/L	0.50	1	09/12/24 09:00	09/13/24 05:36	7440-22-4	
Thallium	ND	ug/L	1.0	1	09/12/24 09:00	09/13/24 05:36	7440-28-0	
Zinc	ND	ug/L	3.0	1	09/12/24 09:00	09/13/24 05:36	7440-66-6	
625.1 MSSV	Analytical Method: EPA 625.1 Preparation Method: EPA 625.1 Initial Volume/Weight: 1000 mL Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	208-96-8	
Anthracene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	120-12-7	
Benzidine	ND	ug/L	50.0	1	09/12/24 09:09	09/12/24 18:47	92-87-5	L1,M0, P2
Benzo(a)anthracene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	207-08-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: South Bend NPDES
Pace Project No.: 50382036

Sample: MW19-091024-1240 **Lab ID: 50382036001** Collected: 09/10/24 12:40 Received: 09/10/24 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625.1 MSSV	Analytical Method: EPA 625.1 Preparation Method: EPA 625.1 Initial Volume/Weight: 1000 mL Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis							
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	09/12/24 09:09	09/12/24 18:47	59-50-7	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	7005-72-3	
Chrysene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	53-70-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	09/12/24 09:09	09/12/24 18:47	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	1	09/12/24 09:09	09/12/24 18:47	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	09/12/24 09:09	09/12/24 18:47	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	117-84-0	
1,2-Diphenylhydrazine	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	122-66-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	1	09/12/24 09:09	09/12/24 18:47	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	206-44-0	
Fluorene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	20.0	1	09/12/24 09:09	09/12/24 18:47	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	193-39-5	
Isophorone	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	78-59-1	
Naphthalene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	91-20-3	
Nitrobenzene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	09/12/24 09:09	09/12/24 18:47	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	20.0	1	09/12/24 09:09	09/12/24 18:47	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	86-30-6	
Pentachlorophenol	ND	ug/L	50.0	1	09/12/24 09:09	09/12/24 18:47	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	85-01-8	
Phenol	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	108-95-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: South Bend NPDES
Pace Project No.: 50382036

Sample: MW19-091024-1240 **Lab ID: 50382036001** Collected: 09/10/24 12:40 Received: 09/10/24 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625.1 MSSV	Analytical Method: EPA 625.1 Preparation Method: EPA 625.1 Initial Volume/Weight: 1000 mL Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis							
Pyrene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 18:47	88-06-2	
Surrogates								
2-Fluorophenol (S)	55	%.	1-102	1	09/12/24 09:09	09/12/24 18:47	367-12-4	
Phenol-d5 (S)	35	%.	8-424	1	09/12/24 09:09	09/12/24 18:47	4165-62-2	
Nitrobenzene-d5 (S)	89	%.	15-314	1	09/12/24 09:09	09/12/24 18:47	4165-60-0	
2-Fluorobiphenyl (S)	68	%.	2-103	1	09/12/24 09:09	09/12/24 18:47	321-60-8	
2,4,6-Tribromophenol (S)	89	%.	20-155	1	09/12/24 09:09	09/12/24 18:47	118-79-6	
p-Terphenyl-d14 (S)	95	%.	1-168	1	09/12/24 09:09	09/12/24 18:47	1718-51-0	
624.1 Volatile Organics	Analytical Method: EPA 624.1 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	5.0	1		09/11/24 15:03	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/11/24 15:03	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/11/24 15:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/11/24 15:03	74-83-9	
Carbon tetrachloride	ND	ug/L	5.0	1		09/11/24 15:03	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/11/24 15:03	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/11/24 15:03	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	50.0	1		09/11/24 15:03	110-75-8	
Chloroform	ND	ug/L	4.8	1		09/11/24 15:03	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/11/24 15:03	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/11/24 15:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/11/24 15:03	106-93-4	N2
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/11/24 15:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/11/24 15:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/11/24 15:03	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/11/24 15:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/11/24 15:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/11/24 15:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/11/24 15:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.8	1		09/11/24 15:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/11/24 15:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/11/24 15:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/11/24 15:03	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/11/24 15:03	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		09/11/24 15:03	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		09/11/24 15:03	1634-04-4	N2
Naphthalene	ND	ug/L	5.0	1		09/11/24 15:03	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/11/24 15:03	79-34-5	
Tetrachloroethene	**8.4**	ug/L	5.0	1		09/11/24 15:03	127-18-4	
Toluene	ND	ug/L	5.0	1		09/11/24 15:03	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: South Bend NPDES
Pace Project No.: 50382036

Sample: MW19-091024-1240 **Lab ID: 50382036001** Collected: 09/10/24 12:40 Received: 09/10/24 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics	Analytical Method: EPA 624.1 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis							
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/11/24 15:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/11/24 15:03	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/11/24 15:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/11/24 15:03	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		09/11/24 15:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/11/24 15:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	91-114	1		09/11/24 15:03	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	85-120	1		09/11/24 15:03	460-00-4	
Toluene-d8 (S)	99	%.	85-117	1		09/11/24 15:03	2037-26-5	
8260 MSV TCLP	Analytical Method: EPA 5030/8260 Leachate Method/Date: EPA 1311; 09/11/24 15:20 Initial Volume/Weight: 0.5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	50.0	1		09/12/24 14:26	71-43-2	
2-Butanone (MEK)	ND	ug/L	1000	1		09/12/24 14:26	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		09/12/24 14:26	56-23-5	
Chlorobenzene	ND	ug/L	50.0	1		09/12/24 14:26	108-90-7	
Chloroform	ND	ug/L	50.0	1		09/12/24 14:26	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		09/12/24 14:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		09/12/24 14:26	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		09/12/24 14:26	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		09/12/24 14:26	79-01-6	
Vinyl chloride	ND	ug/L	20.0	1		09/12/24 14:26	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	99	%.	79-124	1		09/12/24 14:26	460-00-4	
Dibromofluoromethane (S)	102	%.	82-128	1		09/12/24 14:26	1868-53-7	
Toluene-d8 (S)	101	%.	73-122	1		09/12/24 14:26	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D Initial Volume/Weight: 1000 mL Final Volume/Weight: 1000 mL Pace Analytical Services - Indianapolis							
Total Suspended Solids	ND	mg/L	2.5	1		09/13/24 11:07		
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Initial Volume/Weight: 300 mL Final Volume/Weight: 300 mL Pace Analytical Services - Indianapolis							
BOD, 5 day	ND	mg/L	2.0	1	09/11/24 12:27	09/16/24 11:43		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Initial Volume/Weight: 50 mL Final Volume/Weight: 25 mL Pace Analytical Services - Indianapolis							
Cyanide	ND	mg/L	0.0050	1	09/12/24 12:24	09/14/24 11:15	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: South Bend NPDES
Pace Project No.: 50382036

Sample: MW19-091024-1240 **Lab ID: 50382036001** Collected: 09/10/24 12:40 Received: 09/10/24 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	ND	mg/L	0.10	1		09/13/24 15:17	7664-41-7	
5310C TOC	Analytical Method: SM 5310C Initial Volume/Weight: 40 mL Final Volume/Weight: 40 mL Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		09/13/24 00:16	7440-44-0	
9014 Cyanide, Free	Analytical Method: EPA 9014 Free Cyanide Initial Volume/Weight: 1 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Cyanide, Free	ND	ug/L	100	1		09/11/24 15:31		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: South Bend NPDES
Pace Project No.: 50382036

Sample: MW07-091024-1140 **Lab ID: 50382036002** Collected: 09/10/24 11:40 Received: 09/10/24 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E Initial Volume/Weight: 250 mL Final Volume/Weight: 250 mL Pace Analytical Services - Indianapolis							
Mercury	**0.650**	ng/L	0.50	1	09/15/24 23:48	09/16/24 20:10	7439-97-6	
HEM, Oil and Grease	Analytical Method: EPA 1664A Initial Volume/Weight: 950 mL Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis							
Oil and Grease	ND	mg/L	5.3	1		09/13/24 14:49		BM
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**87.7**	mg/L	2.5	10		09/14/24 13:49	16887-00-6	
Sulfate	**7.5**	mg/L	0.25	1		09/14/24 13:32	14808-79-8	
608.3 PCB	Analytical Method: EPA 608.3 Preparation Method: EPA 608.3 Initial Volume/Weight: 950 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis							
PCB-1016 (Aroclor 1016)	ND	ug/L	0.11	1	09/11/24 14:26	09/16/24 15:09	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.11	1	09/11/24 14:26	09/16/24 15:09	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.11	1	09/11/24 14:26	09/16/24 15:09	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.11	1	09/11/24 14:26	09/16/24 15:09	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.11	1	09/11/24 14:26	09/16/24 15:09	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.11	1	09/11/24 14:26	09/16/24 15:09	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.11	1	09/11/24 14:26	09/16/24 15:09	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	67	%.	1-112	1	09/11/24 14:26	09/16/24 15:09	877-09-8	
608.3 Pesticides	Analytical Method: EPA 608.3 Preparation Method: EPA 608.3 Initial Volume/Weight: 1000 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis							
alpha-BHC	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:17	319-84-6	
gamma-BHC (Lindane)	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:17	58-89-9	
beta-BHC	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:17	319-85-7	
Heptachlor	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:17	76-44-8	
delta-BHC	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:17	319-86-8	
Aldrin	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:17	309-00-2	
Heptachlor epoxide	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:17	1024-57-3	
Endosulfan I	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:17	959-98-8	
4,4'-DDE	ND	ug/L	0.10	1	09/13/24 11:09	09/16/24 19:17	72-55-9	
Dieldrin	ND	ug/L	0.10	1	09/13/24 11:09	09/16/24 19:17	60-57-1	
Endrin	ND	ug/L	0.10	1	09/13/24 11:09	09/16/24 19:17	72-20-8	
4,4'-DDD	ND	ug/L	0.10	1	09/13/24 11:09	09/16/24 19:17	72-54-8	
Endosulfan II	ND	ug/L	0.10	1	09/13/24 11:09	09/16/24 19:17	33213-65-9	
4,4'-DDT	ND	ug/L	0.10	1	09/13/24 11:09	09/16/24 19:17	50-29-3	
Endrin aldehyde	ND	ug/L	0.10	1	09/13/24 11:09	09/16/24 19:17	7421-93-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: South Bend NPDES
Pace Project No.: 50382036

Sample: MW07-091024-1140 **Lab ID: 50382036002** Collected: 09/10/24 11:40 Received: 09/10/24 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
608.3 Pesticides	Analytical Method: EPA 608.3 Preparation Method: EPA 608.3 Initial Volume/Weight: 1000 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis							
Endosulfan sulfate	ND	ug/L	0.10	1	09/13/24 11:09	09/16/24 19:17	1031-07-8	
Methoxychlor	ND	ug/L	0.50	1	09/13/24 11:09	09/16/24 19:17	72-43-5	
Endrin ketone	ND	ug/L	0.10	1	09/13/24 11:09	09/16/24 19:17	53494-70-5	N2
Chlordane (Technical)	ND	ug/L	0.50	1	09/13/24 11:09	09/16/24 19:17	57-74-9	
alpha-Chlordane	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:17	5103-71-9	N2
gamma-Chlordane	ND	ug/L	0.050	1	09/13/24 11:09	09/16/24 19:17	5103-74-2	N2
Toxaphene	ND	ug/L	1.0	1	09/13/24 11:09	09/16/24 19:17	8001-35-2	
Surrogates								
Decachlorobiphenyl (S)	38	%.	1-133	1	09/13/24 11:09	09/16/24 19:17	2051-24-3	
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Total Hardness by 2340B	**386000**	ug/L	10000	1	09/11/24 20:24	09/12/24 23:20		
200.8 Metals, Total ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	1	09/12/24 09:00	09/13/24 05:39	7440-36-0	
Arsenic	**9.0**	ug/L	1.0	1	09/12/24 09:00	09/13/24 05:39	7440-38-2	
Beryllium	ND	ug/L	0.20	1	09/12/24 09:00	09/13/24 05:39	7440-41-7	
Cadmium	ND	ug/L	0.20	1	09/12/24 09:00	09/13/24 05:39	7440-43-9	
Chromium	ND	ug/L	2.0	1	09/12/24 09:00	09/13/24 05:39	7440-47-3	
Copper	ND	ug/L	1.0	1	09/12/24 09:00	09/13/24 05:39	7440-50-8	
Lead	ND	ug/L	1.0	1	09/12/24 09:00	09/13/24 05:39	7439-92-1	
Nickel	**1.1**	ug/L	1.0	1	09/12/24 09:00	09/13/24 05:39	7440-02-0	
Selenium	ND	ug/L	1.0	1	09/12/24 09:00	09/13/24 05:39	7782-49-2	
Silver	ND	ug/L	0.50	1	09/12/24 09:00	09/13/24 05:39	7440-22-4	
Thallium	ND	ug/L	1.0	1	09/12/24 09:00	09/13/24 05:39	7440-28-0	
Zinc	ND	ug/L	3.0	1	09/12/24 09:00	09/13/24 05:39	7440-66-6	
625.1 MSSV	Analytical Method: EPA 625.1 Preparation Method: EPA 625.1 Initial Volume/Weight: 1000 mL Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis							
Acenaphthene	**34.8**	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	208-96-8	
Anthracene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	120-12-7	
Benzidine	ND	ug/L	50.0	1	09/12/24 09:09	09/12/24 19:19	92-87-5	L1
Benzo(a)anthracene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	207-08-9	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	101-55-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: South Bend NPDES
Pace Project No.: 50382036

Sample: MW07-091024-1140 **Lab ID: 50382036002** Collected: 09/10/24 11:40 Received: 09/10/24 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625.1 MSSV	Analytical Method: EPA 625.1 Preparation Method: EPA 625.1 Initial Volume/Weight: 1000 mL Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis							
Butylbenzylphthalate	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	09/12/24 09:09	09/12/24 19:19	59-50-7	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	7005-72-3	
Chrysene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	53-70-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	09/12/24 09:09	09/12/24 19:19	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	1	09/12/24 09:09	09/12/24 19:19	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	09/12/24 09:09	09/12/24 19:19	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	117-84-0	
1,2-Diphenylhydrazine	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	122-66-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	1	09/12/24 09:09	09/12/24 19:19	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	206-44-0	
Fluorene	**19.5**	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	20.0	1	09/12/24 09:09	09/12/24 19:19	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	193-39-5	
Isophorone	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	78-59-1	
Naphthalene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	91-20-3	
Nitrobenzene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	09/12/24 09:09	09/12/24 19:19	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	20.0	1	09/12/24 09:09	09/12/24 19:19	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	86-30-6	
Pentachlorophenol	ND	ug/L	50.0	1	09/12/24 09:09	09/12/24 19:19	87-86-5	
Phenanthrene	**27.8**	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	85-01-8	
Phenol	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	108-95-2	
Pyrene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	129-00-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: South Bend NPDES
Pace Project No.: 50382036

Sample: MW07-091024-1140 **Lab ID: 50382036002** Collected: 09/10/24 11:40 Received: 09/10/24 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625.1 MSSV	Analytical Method: EPA 625.1 Preparation Method: EPA 625.1							
	Initial Volume/Weight: 1000 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Indianapolis							
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	09/12/24 09:09	09/12/24 19:19	88-06-2	
Surrogates								
2-Fluorophenol (S)	43	%.	1-102	1	09/12/24 09:09	09/12/24 19:19	367-12-4	
Phenol-d5 (S)	30	%.	8-424	1	09/12/24 09:09	09/12/24 19:19	4165-62-2	
Nitrobenzene-d5 (S)	81	%.	15-314	1	09/12/24 09:09	09/12/24 19:19	4165-60-0	
2-Fluorobiphenyl (S)	54	%.	2-103	1	09/12/24 09:09	09/12/24 19:19	321-60-8	
2,4,6-Tribromophenol (S)	104	%.	20-155	1	09/12/24 09:09	09/12/24 19:19	118-79-6	
p-Terphenyl-d14 (S)	89	%.	1-168	1	09/12/24 09:09	09/12/24 19:19	1718-51-0	
624.1 Volatile Organics	Analytical Method: EPA 624.1							
	Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL							
	Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	5.0	1		09/13/24 17:47	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/13/24 17:47	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/13/24 17:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/13/24 17:47	74-83-9	
Carbon tetrachloride	ND	ug/L	5.0	1		09/13/24 17:47	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/13/24 17:47	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/13/24 17:47	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	50.0	1		09/13/24 17:47	110-75-8	
Chloroform	ND	ug/L	4.8	1		09/13/24 17:47	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/13/24 17:47	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/13/24 17:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/13/24 17:47	106-93-4	N2
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/13/24 17:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/13/24 17:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/13/24 17:47	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/13/24 17:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/13/24 17:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/13/24 17:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/13/24 17:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.8	1		09/13/24 17:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/13/24 17:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/13/24 17:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/13/24 17:47	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/13/24 17:47	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		09/13/24 17:47	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		09/13/24 17:47	1634-04-4	N2
Naphthalene	**13.0**	ug/L	5.0	1		09/13/24 17:47	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/13/24 17:47	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/13/24 17:47	127-18-4	
Toluene	ND	ug/L	5.0	1		09/13/24 17:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/13/24 17:47	71-55-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: South Bend NPDES
Pace Project No.: 50382036

Sample: MW07-091024-1140 **Lab ID: 50382036002** Collected: 09/10/24 11:40 Received: 09/10/24 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics	Analytical Method: EPA 624.1 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis							
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/13/24 17:47	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/13/24 17:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/13/24 17:47	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		09/13/24 17:47	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/13/24 17:47	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	91-114	1		09/13/24 17:47	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	85-120	1		09/13/24 17:47	460-00-4	
Toluene-d8 (S)	102	%.	85-117	1		09/13/24 17:47	2037-26-5	
8260 MSV TCLP	Analytical Method: EPA 5030/8260 Leachate Method/Date: EPA 1311; 09/11/24 15:20 Initial Volume/Weight: 0.5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	50.0	1		09/12/24 15:12	71-43-2	
2-Butanone (MEK)	ND	ug/L	1000	1		09/12/24 15:12	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		09/12/24 15:12	56-23-5	
Chlorobenzene	ND	ug/L	50.0	1		09/12/24 15:12	108-90-7	
Chloroform	ND	ug/L	50.0	1		09/12/24 15:12	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		09/12/24 15:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		09/12/24 15:12	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		09/12/24 15:12	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		09/12/24 15:12	79-01-6	
Vinyl chloride	ND	ug/L	20.0	1		09/12/24 15:12	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	99	%.	79-124	1		09/12/24 15:12	460-00-4	
Dibromofluoromethane (S)	102	%.	82-128	1		09/12/24 15:12	1868-53-7	
Toluene-d8 (S)	104	%.	73-122	1		09/12/24 15:12	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D Initial Volume/Weight: 500 mL Final Volume/Weight: 1000 mL Pace Analytical Services - Indianapolis							
Total Suspended Solids	**19.6**	mg/L	5.0	1		09/13/24 11:08		
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Initial Volume/Weight: 300 mL Final Volume/Weight: 300 mL Pace Analytical Services - Indianapolis							
BOD, 5 day	**2.4**	mg/L	2.0	1	09/11/24 12:21	09/16/24 11:40		R6
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Initial Volume/Weight: 50 mL Final Volume/Weight: 25 mL Pace Analytical Services - Indianapolis							
Cyanide	ND	mg/L	0.0050	1	09/12/24 12:24	09/14/24 11:15	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: South Bend NPDES
Pace Project No.: 50382036

Sample: MW07-091024-1140 **Lab ID: 50382036002** Collected: 09/10/24 11:40 Received: 09/10/24 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**0.51**	mg/L	0.10	1		09/13/24 15:20	7664-41-7	
5310C TOC	Analytical Method: SM 5310C Initial Volume/Weight: 40 mL Final Volume/Weight: 40 mL Pace Analytical Services - Indianapolis							
Total Organic Carbon	**3.1**	mg/L	1.0	1		09/13/24 00:27	7440-44-0	
9014 Cyanide, Free	Analytical Method: EPA 9014 Free Cyanide Initial Volume/Weight: 1 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Cyanide, Free	ND	ug/L	100	1		09/11/24 15:34		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: South Bend NPDES
Pace Project No.: 50382036

Sample: 20988-091024-0001 **Lab ID: 50382036003** Collected: 09/10/24 08:00 Received: 09/10/24 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics	Analytical Method: EPA 624.1 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	5.0	1		09/11/24 13:11	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/11/24 13:11	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/11/24 13:11	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/11/24 13:11	74-83-9	
Carbon tetrachloride	ND	ug/L	5.0	1		09/11/24 13:11	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/11/24 13:11	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/11/24 13:11	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	50.0	1		09/11/24 13:11	110-75-8	c3
Chloroform	ND	ug/L	4.8	1		09/11/24 13:11	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/11/24 13:11	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/11/24 13:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/11/24 13:11	106-93-4	N2
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/11/24 13:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/11/24 13:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/11/24 13:11	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/11/24 13:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/11/24 13:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/11/24 13:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/11/24 13:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.8	1		09/11/24 13:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/11/24 13:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/11/24 13:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/11/24 13:11	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/11/24 13:11	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		09/11/24 13:11	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		09/11/24 13:11	1634-04-4	N2
Naphthalene	ND	ug/L	5.0	1		09/11/24 13:11	91-20-3	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/11/24 13:11	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/11/24 13:11	127-18-4	
Toluene	ND	ug/L	5.0	1		09/11/24 13:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/11/24 13:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/11/24 13:11	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/11/24 13:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/11/24 13:11	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		09/11/24 13:11	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/11/24 13:11	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	91-114	1		09/11/24 13:11	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	85-120	1		09/11/24 13:11	460-00-4	
Toluene-d8 (S)	100	%.	85-117	1		09/11/24 13:11	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

QC Batch: 809044
QC Batch Method: EPA 1631E
Analysis Method: EPA 1631E
Analysis Description: 1631E Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50382036001, 50382036002

METHOD BLANK: 3701102 Matrix: Water
Associated Lab Samples: 50382036001, 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	09/16/24 17:24	

METHOD BLANK: 3701103 Matrix: Water
Associated Lab Samples: 50382036001, 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	09/16/24 17:56	

METHOD BLANK: 3701104 Matrix: Water
Associated Lab Samples: 50382036001, 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	09/16/24 21:06	

LABORATORY CONTROL SAMPLE: 3701105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	5.26	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3701106 3701107

Parameter	Units	50381527002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	<0.50	2.5	2.5	2.35	2.49	84	90	71-125	6	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3701108 3701109

Parameter	Units	50382036001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	ND	2.5	2.5	2.32	2.44	79	84	71-125	5	24	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

QC Batch: 808936
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 HEM, Oil and Grease
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50382036001, 50382036002

METHOD BLANK: 3700080 Matrix: Water
Associated Lab Samples: 50382036001, 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	09/13/24 14:49	BM

LABORATORY CONTROL SAMPLE: 3700081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	34.2	86	78-114	BM

MATRIX SPIKE SAMPLE: 3700082

Parameter	Units	50381841001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	8.8	42.1	24.9	38	78-114	BM,M0,P2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

QC Batch: 808442
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50382036001, 50382036002

METHOD BLANK: 3697134 Matrix: Water
Associated Lab Samples: 50382036001, 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/14/24 03:16	
Sulfate	mg/L	ND	0.25	09/14/24 03:16	

LABORATORY CONTROL SAMPLE: 3697135

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	5	4.8	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3697146 3697147

Parameter	Units	50381520003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.6	2.5	2.5	17.1	17.1	102	101	80-120	0	15	
Sulfate	mg/L	10.5	5	5	15.5	15.5	99	100	80-120	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3697148 3697149

Parameter	Units	50382036002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	87.7	25	25	110	110	91	91	80-120	0	15	
Sulfate	mg/L	7.5	5	5	12.3	12.3	97	97	80-120	0	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

QC Batch: 808492
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50382036001, 50382036002

METHOD BLANK: 3697379 Matrix: Water
Associated Lab Samples: 50382036001, 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B	ug/L	ND	10000	09/12/24 22:53	

LABORATORY CONTROL SAMPLE: 3697380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B	ug/L	66200	63300	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3697381 3697382

Parameter	Units	50382106001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Hardness by 2340B	ug/L	133000	66200	66200	193000	191000	90	87	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

QC Batch: 808506
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50382036001, 50382036002

METHOD BLANK: 3697489 Matrix: Water
Associated Lab Samples: 50382036001, 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	09/13/24 04:52	
Arsenic	ug/L	ND	1.0	09/13/24 04:52	
Beryllium	ug/L	ND	0.20	09/13/24 04:52	
Cadmium	ug/L	ND	0.20	09/13/24 04:52	
Chromium	ug/L	ND	2.0	09/13/24 04:52	
Copper	ug/L	ND	1.0	09/13/24 04:52	
Lead	ug/L	ND	1.0	09/13/24 04:52	
Nickel	ug/L	ND	1.0	09/13/24 04:52	
Selenium	ug/L	ND	1.0	09/13/24 04:52	
Silver	ug/L	ND	0.50	09/13/24 04:52	
Thallium	ug/L	ND	1.0	09/13/24 04:52	
Zinc	ug/L	ND	3.0	09/13/24 04:52	

LABORATORY CONTROL SAMPLE: 3697490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.7	104	85-115	
Arsenic	ug/L	40	38.7	97	85-115	
Beryllium	ug/L	40	41.4	103	85-115	
Cadmium	ug/L	40	40.8	102	85-115	
Chromium	ug/L	40	39.8	100	85-115	
Copper	ug/L	40	41.1	103	85-115	
Lead	ug/L	40	41.2	103	85-115	
Nickel	ug/L	40	39.7	99	85-115	
Selenium	ug/L	40	39.8	100	85-115	
Silver	ug/L	40	41.0	102	85-115	
Thallium	ug/L	40	40.9	102	85-115	
Zinc	ug/L	40	38.8	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3697491 3697492

Parameter	Units	50382106003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.86J	40	40	42.7	42.0	105	103	70-130	2	20	
Arsenic	ug/L	2.2	40	40	41.9	41.5	99	98	70-130	1	20	
Beryllium	ug/L	ND	40	40	43.4	43.5	108	109	70-130	0	20	
Cadmium	ug/L	0.046J	40	40	39.6	39.3	99	98	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3697491 3697492

Parameter	Units	50382106003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	0.66J	40	40	39.5	38.7	97	95	70-130	2	20	
Copper	ug/L	1.5	40	40	39.6	39.2	95	94	70-130	1	20	
Lead	ug/L	0.19J	40	40	41.5	40.8	103	101	70-130	2	20	
Nickel	ug/L	2.4	40	40	41.6	39.1	98	92	70-130	6	20	
Selenium	ug/L	4.3	40	40	44.1	43.8	99	99	70-130	1	20	
Silver	ug/L	ND	40	40	38.7	38.2	97	95	70-130	1	20	
Thallium	ug/L	0.31J	40	40	41.4	40.6	103	101	70-130	2	20	
Zinc	ug/L	2.1J	40	40	39.2	38.2	93	90	70-130	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

QC Batch: 808446
QC Batch Method: EPA 624.1
Analysis Method: EPA 624.1
Analysis Description: 624.1 MSV
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50382036001, 50382036003

METHOD BLANK: 3697167
Matrix: Water
Associated Lab Samples: 50382036001, 50382036003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	09/11/24 12:43	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	09/11/24 12:43	
1,1,2-Trichloroethane	ug/L	ND	5.0	09/11/24 12:43	
1,1-Dichloroethane	ug/L	ND	5.0	09/11/24 12:43	
1,1-Dichloroethene	ug/L	ND	5.0	09/11/24 12:43	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	09/11/24 12:43	N2
1,2-Dichlorobenzene	ug/L	ND	5.0	09/11/24 12:43	
1,2-Dichloroethane	ug/L	ND	5.0	09/11/24 12:43	
1,2-Dichloropropane	ug/L	ND	5.0	09/11/24 12:43	
1,3-Dichlorobenzene	ug/L	ND	5.0	09/11/24 12:43	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/11/24 12:43	
2-Chloroethylvinyl ether	ug/L	ND	50.0	09/11/24 12:43	
Benzene	ug/L	ND	5.0	09/11/24 12:43	
Bromodichloromethane	ug/L	ND	5.0	09/11/24 12:43	
Bromoform	ug/L	ND	5.0	09/11/24 12:43	
Bromomethane	ug/L	ND	5.0	09/11/24 12:43	
Carbon tetrachloride	ug/L	ND	5.0	09/11/24 12:43	
Chlorobenzene	ug/L	ND	5.0	09/11/24 12:43	
Chloroethane	ug/L	ND	5.0	09/11/24 12:43	
Chloroform	ug/L	ND	4.8	09/11/24 12:43	
Chloromethane	ug/L	ND	5.0	09/11/24 12:43	
cis-1,2-Dichloroethene	ug/L	ND	5.0	09/11/24 12:43	
cis-1,3-Dichloropropene	ug/L	ND	5.0	09/11/24 12:43	
Dibromochloromethane	ug/L	ND	5.0	09/11/24 12:43	
Ethylbenzene	ug/L	ND	5.0	09/11/24 12:43	
Methyl-tert-butyl ether	ug/L	ND	5.0	09/11/24 12:43	N2
Methylene Chloride	ug/L	ND	5.0	09/11/24 12:43	
Naphthalene	ug/L	ND	5.0	09/11/24 12:43	
Tetrachloroethene	ug/L	ND	5.0	09/11/24 12:43	
Toluene	ug/L	ND	5.0	09/11/24 12:43	
trans-1,2-Dichloroethene	ug/L	ND	4.8	09/11/24 12:43	
trans-1,3-Dichloropropene	ug/L	ND	5.0	09/11/24 12:43	
Trichloroethene	ug/L	ND	5.0	09/11/24 12:43	
Trichlorofluoromethane	ug/L	ND	5.0	09/11/24 12:43	
Vinyl chloride	ug/L	ND	2.0	09/11/24 12:43	
Xylene (Total)	ug/L	ND	10.0	09/11/24 12:43	
4-Bromofluorobenzene (S)	%.	96	85-120	09/11/24 12:43	
Dibromofluoromethane (S)	%.	97	91-114	09/11/24 12:43	1d
Toluene-d8 (S)	%.	99	85-117	09/11/24 12:43	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

LABORATORY CONTROL SAMPLE: 3697168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.2	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	25.9	129	60-140	
1,1,2-Trichloroethane	ug/L	20	24.7	123	70-130	
1,1-Dichloroethane	ug/L	20	23.6	118	70-130	
1,1-Dichloroethene	ug/L	20	22.4	112	50-150	
1,2-Dibromoethane (EDB)	ug/L	20	23.8	119	76-123	N2
1,2-Dichlorobenzene	ug/L	20	24.7	124	65-135	
1,2-Dichloroethane	ug/L	20	21.3	107	70-130	
1,2-Dichloropropane	ug/L	20	25.1	126	35-165	
1,3-Dichlorobenzene	ug/L	20	24.5	123	70-130	
1,4-Dichlorobenzene	ug/L	20	24.6	123	65-135	
2-Chloroethylvinyl ether	ug/L	100	105	105	1-225	
Benzene	ug/L	20	24.8	124	65-135	
Bromodichloromethane	ug/L	20	23.8	119	65-135	
Bromoform	ug/L	20	21.1	105	70-130	
Bromomethane	ug/L	20	13.5	67	15-185	
Carbon tetrachloride	ug/L	20	20.4	102	70-130	
Chlorobenzene	ug/L	20	24.6	123	65-135	
Chloroethane	ug/L	20	19.8	99	40-160	
Chloroform	ug/L	20	23.0	115	70-135	
Chloromethane	ug/L	20	22.8	114	1-205	
cis-1,2-Dichloroethene	ug/L	20	23.7	119	72-125	
cis-1,3-Dichloropropene	ug/L	20	23.6	118	25-175	
Dibromochloromethane	ug/L	20	23.0	115	70-135	
Ethylbenzene	ug/L	20	25.0	125	60-140	
Methyl-tert-butyl ether	ug/L	20	20.5	103	69-125	N2
Methylene Chloride	ug/L	20	19.6	98	60-140	
Naphthalene	ug/L	20	27.8	139	57-149	
Tetrachloroethene	ug/L	20	23.0	115	70-130	
Toluene	ug/L	20	24.7	123	70-130	
trans-1,2-Dichloroethene	ug/L	20	23.3	116	70-130	
trans-1,3-Dichloropropene	ug/L	20	21.9	110	50-150	
Trichloroethene	ug/L	20	23.5	117	65-135	
Trichlorofluoromethane	ug/L	20	21.8	109	50-150	
Vinyl chloride	ug/L	20	25.2	126	5-195	
Xylene (Total)	ug/L	60	71.1	118	76-119	LS
4-Bromofluorobenzene (S)	%.			98	85-120	
Dibromofluoromethane (S)	%.			98	91-114	
Toluene-d8 (S)	%.			102	85-117	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

QC Batch: 808955
QC Batch Method: EPA 624.1
Analysis Method: EPA 624.1
Analysis Description: 624.1 MSV
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50382036002

METHOD BLANK: 3700360 Matrix: Water

Associated Lab Samples: 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	09/13/24 16:48	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	09/13/24 16:48	
1,1,2-Trichloroethane	ug/L	ND	5.0	09/13/24 16:48	
1,1-Dichloroethane	ug/L	ND	5.0	09/13/24 16:48	
1,1-Dichloroethene	ug/L	ND	5.0	09/13/24 16:48	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	09/13/24 16:48	N2
1,2-Dichlorobenzene	ug/L	ND	5.0	09/13/24 16:48	
1,2-Dichloroethane	ug/L	ND	5.0	09/13/24 16:48	
1,2-Dichloropropane	ug/L	ND	5.0	09/13/24 16:48	
1,3-Dichlorobenzene	ug/L	ND	5.0	09/13/24 16:48	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/13/24 16:48	
2-Chloroethylvinyl ether	ug/L	ND	50.0	09/13/24 16:48	
Benzene	ug/L	ND	5.0	09/13/24 16:48	
Bromodichloromethane	ug/L	ND	5.0	09/13/24 16:48	
Bromoform	ug/L	ND	5.0	09/13/24 16:48	
Bromomethane	ug/L	ND	5.0	09/13/24 16:48	
Carbon tetrachloride	ug/L	ND	5.0	09/13/24 16:48	
Chlorobenzene	ug/L	ND	5.0	09/13/24 16:48	
Chloroethane	ug/L	ND	5.0	09/13/24 16:48	
Chloroform	ug/L	ND	4.8	09/13/24 16:48	
Chloromethane	ug/L	ND	5.0	09/13/24 16:48	
cis-1,2-Dichloroethene	ug/L	ND	5.0	09/13/24 16:48	
cis-1,3-Dichloropropene	ug/L	ND	5.0	09/13/24 16:48	
Dibromochloromethane	ug/L	ND	5.0	09/13/24 16:48	
Ethylbenzene	ug/L	ND	5.0	09/13/24 16:48	
Methyl-tert-butyl ether	ug/L	ND	5.0	09/13/24 16:48	N2
Methylene Chloride	ug/L	ND	5.0	09/13/24 16:48	
Naphthalene	ug/L	ND	5.0	09/13/24 16:48	
Tetrachloroethene	ug/L	ND	5.0	09/13/24 16:48	
Toluene	ug/L	ND	5.0	09/13/24 16:48	
trans-1,2-Dichloroethene	ug/L	ND	4.8	09/13/24 16:48	
trans-1,3-Dichloropropene	ug/L	ND	5.0	09/13/24 16:48	
Trichloroethene	ug/L	ND	5.0	09/13/24 16:48	
Trichlorofluoromethane	ug/L	ND	5.0	09/13/24 16:48	
Vinyl chloride	ug/L	ND	2.0	09/13/24 16:48	
Xylene (Total)	ug/L	ND	10.0	09/13/24 16:48	
4-Bromofluorobenzene (S)	%.	100	85-120	09/13/24 16:48	
Dibromofluoromethane (S)	%.	105	91-114	09/13/24 16:48	
Toluene-d8 (S)	%.	104	85-117	09/13/24 16:48	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

LABORATORY CONTROL SAMPLE: 3700361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.2	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.6	88	60-140	
1,1,2-Trichloroethane	ug/L	20	18.0	90	70-130	
1,1-Dichloroethane	ug/L	20	20.2	101	70-130	
1,1-Dichloroethene	ug/L	20	18.4	92	50-150	
1,2-Dibromoethane (EDB)	ug/L	20	19.3	97	76-123	N2
1,2-Dichlorobenzene	ug/L	20	19.4	97	65-135	
1,2-Dichloroethane	ug/L	20	20.9	104	70-130	
1,2-Dichloropropane	ug/L	20	19.0	95	35-165	
1,3-Dichlorobenzene	ug/L	20	19.5	97	70-130	
1,4-Dichlorobenzene	ug/L	20	19.7	98	65-135	
2-Chloroethylvinyl ether	ug/L	100	36.9J	37	1-225	
Benzene	ug/L	20	19.4	97	65-135	
Bromodichloromethane	ug/L	20	17.4	87	65-135	
Bromoform	ug/L	20	17.9	89	70-130	
Bromomethane	ug/L	20	6.8	34	15-185	
Carbon tetrachloride	ug/L	20	19.4	97	70-130	
Chlorobenzene	ug/L	20	19.5	97	65-135	
Chloroethane	ug/L	20	21.9	110	40-160	
Chloroform	ug/L	20	18.5	92	70-135	
Chloromethane	ug/L	20	19.0	95	1-205	
cis-1,2-Dichloroethene	ug/L	20	18.7	94	72-125	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	25-175	
Dibromochloromethane	ug/L	20	19.5	97	70-135	
Ethylbenzene	ug/L	20	19.8	99	60-140	
Methyl-tert-butyl ether	ug/L	20	18.3	92	69-125	N2
Methylene Chloride	ug/L	20	16.7	84	60-140	
Naphthalene	ug/L	20	21.1	106	57-149	
Tetrachloroethene	ug/L	20	20.2	101	70-130	
Toluene	ug/L	20	18.5	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.7	94	70-130	
trans-1,3-Dichloropropene	ug/L	20	18.7	94	50-150	
Trichloroethene	ug/L	20	18.6	93	65-135	
Trichlorofluoromethane	ug/L	20	27.2	136	50-150	
Vinyl chloride	ug/L	20	24.4	122	5-195	
Xylene (Total)	ug/L	60	59.0	98	76-119	
4-Bromofluorobenzene (S)	%.			101	85-120	
Dibromofluoromethane (S)	%.			105	91-114	
Toluene-d8 (S)	%.			105	85-117	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3700362 3700363

Parameter	Units	50382317002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	18.9	18.7	95	93	52-162	1	36	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3700362 3700363

Parameter	Units	50382317002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.4	17.9	87	90	46-157	3	61	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.2	18.4	91	92	52-150	1	45	
1,1-Dichloroethane	ug/L	ND	20	20	21.2	20.7	106	103	59-155	3	40	
1,1-Dichloroethene	ug/L	ND	20	20	19.6	19.0	98	95	1-234	3	32	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.7	20.0	99	100	46-172	1	40	N2
1,2-Dichlorobenzene	ug/L	ND	20	20	18.8	19.5	94	98	18-190	4	57	
1,2-Dichloroethane	ug/L	ND	20	20	21.5	21.3	107	107	49-155	1	49	
1,2-Dichloropropane	ug/L	ND	20	20	19.8	19.4	99	97	1-210	2	55	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.8	19.8	94	99	59-156	5	43	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.0	19.8	95	99	18-190	4	57	
2-Chloroethylvinyl ether	ug/L	ND	100	100	39.8J	40.8J	40	41	1-305		71	
Benzene	ug/L	ND	20	20	20.2	20.0	101	100	37-151	1	61	
Bromodichloromethane	ug/L	ND	20	20	18.0	18.1	90	91	35-155	1	56	
Bromoform	ug/L	ND	20	20	17.1	18.0	86	90	45-169	5	42	
Bromomethane	ug/L	ND	20	20	2.1J	2.9J	11	14	1-242		61	
Carbon tetrachloride	ug/L	ND	20	20	19.8	19.7	99	99	70-140	0	41	
Chlorobenzene	ug/L	ND	20	20	19.5	19.8	97	99	37-160	2	53	
Chloroethane	ug/L	ND	20	20	23.0	23.3	115	116	14-230	1	78	
Chloroform	ug/L	ND	20	20	20.1	20.4	96	97	51-138	1	54	
Chloromethane	ug/L	ND	20	20	19.5	19.8	97	99	1-273	1	60	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.3	19.0	96	95	48-178	2	40	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.5	18.9	93	95	1-227	2	58	
Dibromochloromethane	ug/L	ND	20	20	19.6	20.2	98	101	53-149	3	50	
Ethylbenzene	ug/L	ND	20	20	19.7	19.8	98	99	37-162	1	63	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.6	18.7	93	93	43-170	0	40	N2
Methylene Chloride	ug/L	ND	20	20	16.8	16.5	84	83	1-221	1	28	
Naphthalene	ug/L	ND	20	20	20.8	21.6	104	108	43-173	4	40	
Tetrachloroethene	ug/L	ND	20	20	19.8	19.9	99	99	64-148	0	39	
Toluene	ug/L	ND	20	20	18.7	18.4	94	92	47-150	1	41	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.2	18.6	96	93	54-156	3	45	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.9	18.0	90	90	17-183	1	86	
Trichloroethene	ug/L	ND	20	20	19.2	19.0	96	95	70-157	1	48	
Trichlorofluoromethane	ug/L	ND	20	20	27.6	27.8	138	139	17-181	1	84	
Vinyl chloride	ug/L	ND	20	20	25.6	25.3	128	126	1-251	1	66	
Xylene (Total)	ug/L	ND	60	60	58.4	58.2	97	97	53-165	0	40	
4-Bromofluorobenzene (S)	%.						103	102	85-120			
Dibromofluoromethane (S)	%.						106	105	91-114			
Toluene-d8 (S)	%.						102	103	85-117			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

QC Batch: 808653
QC Batch Method: EPA 5030/8260
Analysis Method: EPA 5030/8260
Analysis Description: 8260 MSV TCLP
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50382036001, 50382036002

METHOD BLANK: 3698381 Matrix: Water
Associated Lab Samples: 50382036001, 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	09/12/24 11:45	
1,2-Dichloroethane	ug/L	ND	50.0	09/12/24 11:45	
2-Butanone (MEK)	ug/L	ND	1000	09/12/24 11:45	
Benzene	ug/L	ND	50.0	09/12/24 11:45	
Carbon tetrachloride	ug/L	ND	50.0	09/12/24 11:45	
Chlorobenzene	ug/L	ND	50.0	09/12/24 11:45	
Chloroform	ug/L	ND	50.0	09/12/24 11:45	
Tetrachloroethene	ug/L	ND	50.0	09/12/24 11:45	
Trichloroethene	ug/L	ND	50.0	09/12/24 11:45	
Vinyl chloride	ug/L	ND	20.0	09/12/24 11:45	
4-Bromofluorobenzene (S)	%.	96	79-124	09/12/24 11:45	
Dibromofluoromethane (S)	%.	103	82-128	09/12/24 11:45	
Toluene-d8 (S)	%.	100	73-122	09/12/24 11:45	

LABORATORY CONTROL SAMPLE: 3698382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	500	526	105	71-130	
1,2-Dichloroethane	ug/L	500	564	113	72-123	
2-Butanone (MEK)	ug/L	2500	2790	112	67-135	
Benzene	ug/L	500	544	109	76-122	
Carbon tetrachloride	ug/L	500	560	112	73-127	
Chlorobenzene	ug/L	500	555	111	76-118	
Chloroform	ug/L	500	553	111	78-121	
Tetrachloroethene	ug/L	500	590	118	71-122	
Trichloroethene	ug/L	500	552	110	74-125	
Vinyl chloride	ug/L	500	528	106	55-139	
4-Bromofluorobenzene (S)	%.			99	79-124	
Dibromofluoromethane (S)	%.			98	82-128	
Toluene-d8 (S)	%.			105	73-122	

MATRIX SPIKE SAMPLE: 3698383

Parameter	Units	50381447001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	500	561	112	53-144	
1,2-Dichloroethane	ug/L	ND	500	572	114	50-138	
2-Butanone (MEK)	ug/L	ND	2500	3040	122	45-138	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

MATRIX SPIKE SAMPLE: 3698383

Parameter	Units	50381447001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	500	564	113	53-138	
Carbon tetrachloride	ug/L	ND	500	581	116	43-148	
Chlorobenzene	ug/L	ND	500	571	114	52-131	
Chloroform	ug/L	ND	500	567	113	54-138	
Tetrachloroethene	ug/L	ND	500	596	119	44-138	
Trichloroethene	ug/L	ND	500	573	115	49-140	
Vinyl chloride	ug/L	ND	500	568	114	41-147	
4-Bromofluorobenzene (S)	%.				100	79-124	
Dibromofluoromethane (S)	%.				98	82-128	
Toluene-d8 (S)	%.				102	73-122	

MATRIX SPIKE SAMPLE: 3698384

Parameter	Units	50382036001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	500	510	102	53-144	
1,2-Dichloroethane	ug/L	ND	500	561	112	50-138	
2-Butanone (MEK)	ug/L	ND	2500	2980	119	45-138	
Benzene	ug/L	ND	500	532	106	53-138	
Carbon tetrachloride	ug/L	ND	500	545	109	43-148	
Chlorobenzene	ug/L	ND	500	525	105	52-131	
Chloroform	ug/L	ND	500	546	109	54-138	
Tetrachloroethene	ug/L	ND	500	556	111	44-138	
Trichloroethene	ug/L	ND	500	530	106	49-140	
Vinyl chloride	ug/L	ND	500	520	104	41-147	
4-Bromofluorobenzene (S)	%.				101	79-124	
Dibromofluoromethane (S)	%.				98	82-128	
Toluene-d8 (S)	%.				104	73-122	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

QC Batch: 808481
QC Batch Method: EPA 608.3
Analysis Method: EPA 608.3
Analysis Description: 608.3 PCB
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50382036001, 50382036002

METHOD BLANK: 3697338 Matrix: Water
Associated Lab Samples: 50382036001, 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.10	09/16/24 14:09	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.10	09/16/24 14:09	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.10	09/16/24 14:09	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.10	09/16/24 14:09	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.10	09/16/24 14:09	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.10	09/16/24 14:09	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.10	09/16/24 14:09	
Tetrachloro-m-xylene (S)	%.	86	1-112	09/16/24 14:09	

LABORATORY CONTROL SAMPLE: 3697339

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	0.5	0.64	127	50-140	
PCB-1260 (Aroclor 1260)	ug/L	0.5	0.61	123	8-140	
Tetrachloro-m-xylene (S)	%.			102	1-112	

MATRIX SPIKE SAMPLE: 3697341

Parameter	Units	50382036002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.51	0.52	102	50-140	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.51	0.42	82	8-140	
Tetrachloro-m-xylene (S)	%.				80	1-112	

SAMPLE DUPLICATE: 3697340

Parameter	Units	50382036001 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	ND		36	
PCB-1221 (Aroclor 1221)	ug/L	ND	ND		48	
PCB-1232 (Aroclor 1232)	ug/L	ND	ND		25	
PCB-1242 (Aroclor 1242)	ug/L	ND	ND		29	
PCB-1248 (Aroclor 1248)	ug/L	ND	ND		35	
PCB-1254 (Aroclor 1254)	ug/L	ND	ND		45	
PCB-1260 (Aroclor 1260)	ug/L	ND	ND		38	
Tetrachloro-m-xylene (S)	%.	67	84			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

QC Batch: 808839
QC Batch Method: EPA 608.3
Analysis Method: EPA 608.3
Analysis Description: 608.3 Pesticides
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50382036001, 50382036002

METHOD BLANK: 3699643 Matrix: Water
Associated Lab Samples: 50382036001, 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	ND	0.10	09/16/24 18:56	
4,4'-DDE	ug/L	ND	0.10	09/16/24 18:56	
4,4'-DDT	ug/L	ND	0.10	09/16/24 18:56	
Aldrin	ug/L	ND	0.050	09/16/24 18:56	
alpha-BHC	ug/L	ND	0.050	09/16/24 18:56	
alpha-Chlordane	ug/L	ND	0.050	09/16/24 18:56	N2
beta-BHC	ug/L	ND	0.050	09/16/24 18:56	
Chlordane (Technical)	ug/L	ND	0.50	09/16/24 18:56	
delta-BHC	ug/L	ND	0.050	09/16/24 18:56	
Dieldrin	ug/L	ND	0.10	09/16/24 18:56	
Endosulfan I	ug/L	ND	0.050	09/16/24 18:56	
Endosulfan II	ug/L	ND	0.10	09/16/24 18:56	
Endosulfan sulfate	ug/L	ND	0.10	09/16/24 18:56	
Endrin	ug/L	ND	0.10	09/16/24 18:56	
Endrin aldehyde	ug/L	ND	0.10	09/16/24 18:56	
Endrin ketone	ug/L	ND	0.10	09/16/24 18:56	N2
gamma-BHC (Lindane)	ug/L	ND	0.050	09/16/24 18:56	
gamma-Chlordane	ug/L	ND	0.050	09/16/24 18:56	N2
Heptachlor	ug/L	ND	0.050	09/16/24 18:56	
Heptachlor epoxide	ug/L	ND	0.050	09/16/24 18:56	
Methoxychlor	ug/L	ND	0.50	09/16/24 18:56	
Toxaphene	ug/L	ND	1.0	09/16/24 18:56	
Decachlorobiphenyl (S)	%.	54	1-133	09/16/24 18:56	

LABORATORY CONTROL SAMPLE: 3699644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	0.2	0.21	106	31-141	
4,4'-DDE	ug/L	0.2	0.20	98	30-145	
4,4'-DDT	ug/L	0.2	0.21	107	25-160	
Aldrin	ug/L	0.1	.048J	48	42-140	
alpha-BHC	ug/L	0.1	0.086	86	37-140	
alpha-Chlordane	ug/L	0.1	0.088	88	45-140	N2
beta-BHC	ug/L	0.1	0.090	90	17-147	
delta-BHC	ug/L	0.1	0.090	90	19-140	
Dieldrin	ug/L	0.2	0.21	105	36-146	
Endosulfan I	ug/L	0.1	0.092	92	45-153	
Endosulfan II	ug/L	0.2	0.21	104	1-202	
Endosulfan sulfate	ug/L	0.2	0.19	94	26-144	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

LABORATORY CONTROL SAMPLE: 3699644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin	ug/L	0.2	0.21	105	30-147	
Endrin aldehyde	ug/L	0.2	0.22	112	42-192	
Endrin ketone	ug/L	0.2	0.22	108	41-171	N2
gamma-BHC (Lindane)	ug/L	0.1	0.095	95	32-140	
gamma-Chlordane	ug/L	0.1	0.086	86	45-140	N2
Heptachlor	ug/L	0.1	0.060	60	34-140	
Heptachlor epoxide	ug/L	0.1	0.089	89	37-142	
Methoxychlor	ug/L	1	1.2	116	33-183	
Decachlorobiphenyl (S)	%.			67	1-133	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

QC Batch: 808602
QC Batch Method: EPA 625.1
Analysis Method: EPA 625.1
Analysis Description: 625.1 MSS
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50382036001, 50382036002

METHOD BLANK: 3698030
Matrix: Water
Associated Lab Samples: 50382036001, 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	09/12/24 15:20	
1,2-Dichlorobenzene	ug/L	ND	10.0	09/12/24 15:20	
1,2-Diphenylhydrazine	ug/L	ND	10.0	09/12/24 15:20	
1,3-Dichlorobenzene	ug/L	ND	10.0	09/12/24 15:20	
1,4-Dichlorobenzene	ug/L	ND	10.0	09/12/24 15:20	
2,4,6-Trichlorophenol	ug/L	ND	10.0	09/12/24 15:20	
2,4-Dichlorophenol	ug/L	ND	10.0	09/12/24 15:20	
2,4-Dimethylphenol	ug/L	ND	10.0	09/12/24 15:20	
2,4-Dinitrophenol	ug/L	ND	50.0	09/12/24 15:20	
2,4-Dinitrotoluene	ug/L	ND	10.0	09/12/24 15:20	
2,6-Dinitrotoluene	ug/L	ND	10.0	09/12/24 15:20	
2-Chloronaphthalene	ug/L	ND	10.0	09/12/24 15:20	
2-Chlorophenol	ug/L	ND	10.0	09/12/24 15:20	
2-Nitrophenol	ug/L	ND	10.0	09/12/24 15:20	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	09/12/24 15:20	
4,6-Dinitro-2-methylphenol	ug/L	ND	50.0	09/12/24 15:20	
4-Bromophenylphenyl ether	ug/L	ND	10.0	09/12/24 15:20	
4-Chloro-3-methylphenol	ug/L	ND	20.0	09/12/24 15:20	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	09/12/24 15:20	
4-Nitrophenol	ug/L	ND	50.0	09/12/24 15:20	
Acenaphthene	ug/L	ND	10.0	09/12/24 15:20	
Acenaphthylene	ug/L	ND	10.0	09/12/24 15:20	
Anthracene	ug/L	ND	10.0	09/12/24 15:20	
Benzidine	ug/L	ND	50.0	09/12/24 15:20	
Benzo(a)anthracene	ug/L	ND	10.0	09/12/24 15:20	
Benzo(a)pyrene	ug/L	ND	10.0	09/12/24 15:20	
Benzo(b)fluoranthene	ug/L	ND	10.0	09/12/24 15:20	
Benzo(g,h,i)perylene	ug/L	ND	10.0	09/12/24 15:20	
Benzo(k)fluoranthene	ug/L	ND	10.0	09/12/24 15:20	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	09/12/24 15:20	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	09/12/24 15:20	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	09/12/24 15:20	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	09/12/24 15:20	
Butylbenzylphthalate	ug/L	ND	10.0	09/12/24 15:20	
Chrysene	ug/L	ND	10.0	09/12/24 15:20	
Di-n-butylphthalate	ug/L	ND	10.0	09/12/24 15:20	
Di-n-octylphthalate	ug/L	ND	10.0	09/12/24 15:20	
Dibenz(a,h)anthracene	ug/L	ND	10.0	09/12/24 15:20	
Diethylphthalate	ug/L	ND	10.0	09/12/24 15:20	
Dimethylphthalate	ug/L	ND	10.0	09/12/24 15:20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

METHOD BLANK: 3698030 Matrix: Water
Associated Lab Samples: 50382036001, 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoranthene	ug/L	ND	10.0	09/12/24 15:20	
Fluorene	ug/L	ND	10.0	09/12/24 15:20	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	09/12/24 15:20	
Hexachlorobenzene	ug/L	ND	10.0	09/12/24 15:20	
Hexachlorocyclopentadiene	ug/L	ND	20.0	09/12/24 15:20	
Hexachloroethane	ug/L	ND	10.0	09/12/24 15:20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	09/12/24 15:20	
Isophorone	ug/L	ND	10.0	09/12/24 15:20	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	09/12/24 15:20	
N-Nitrosodimethylamine	ug/L	ND	20.0	09/12/24 15:20	
N-Nitrosodiphenylamine	ug/L	ND	10.0	09/12/24 15:20	
Naphthalene	ug/L	ND	10.0	09/12/24 15:20	
Nitrobenzene	ug/L	ND	10.0	09/12/24 15:20	
Pentachlorophenol	ug/L	ND	50.0	09/12/24 15:20	
Phenanthrene	ug/L	ND	10.0	09/12/24 15:20	
Phenol	ug/L	ND	10.0	09/12/24 15:20	
Pyrene	ug/L	ND	10.0	09/12/24 15:20	
2,4,6-Tribromophenol (S)	%.	89	20-155	09/12/24 15:20	
2-Fluorobiphenyl (S)	%.	77	2-103	09/12/24 15:20	
2-Fluorophenol (S)	%.	50	1-102	09/12/24 15:20	
Nitrobenzene-d5 (S)	%.	81	15-314	09/12/24 15:20	
p-Terphenyl-d14 (S)	%.	93	1-168	09/12/24 15:20	
Phenol-d5 (S)	%.	33	8-424	09/12/24 15:20	

LABORATORY CONTROL SAMPLE: 3698031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	42.7	85	44-142	
1,2-Dichlorobenzene	ug/L	50	39.7	79	19-106	
1,2-Diphenylhydrazine	ug/L	50	55.3	111	43-138	
1,3-Dichlorobenzene	ug/L	50	39.6	79	15-105	
1,4-Dichlorobenzene	ug/L	50	40.2	80	16-105	
2,4,6-Trichlorophenol	ug/L	50	46.2	92	37-144	
2,4-Dichlorophenol	ug/L	50	48.1	96	39-135	
2,4-Dimethylphenol	ug/L	50	58.9	118	32-120	
2,4-Dinitrophenol	ug/L	50	50.7	101	1-191	
2,4-Dinitrotoluene	ug/L	50	48.8	98	39-139	
2,6-Dinitrotoluene	ug/L	50	48.9	98	50-158	
2-Chloronaphthalene	ug/L	50	44.8	90	60-120	
2-Chlorophenol	ug/L	50	40.4	81	23-134	
2-Nitrophenol	ug/L	50	46.1	92	29-182	
3,3'-Dichlorobenzidine	ug/L	50	51.7	103	1-262	
4,6-Dinitro-2-methylphenol	ug/L	50	54.5	109	1-181	
4-Bromophenylphenyl ether	ug/L	50	49.6	99	53-127	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

LABORATORY CONTROL SAMPLE: 3698031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Chloro-3-methylphenol	ug/L	50	53.1	106	22-147	
4-Chlorophenylphenyl ether	ug/L	50	44.7	89	25-158	
4-Nitrophenol	ug/L	50	27.7J	55	1-132	
Acenaphthene	ug/L	50	42.8	86	47-145	
Acenaphthylene	ug/L	50	43.2	86	33-145	
Anthracene	ug/L	50	51.0	102	27-133	
Benzidine	ug/L	50	23.4J	47	1-44	L1
Benzo(a)anthracene	ug/L	50	48.4	97	33-143	
Benzo(a)pyrene	ug/L	50	51.2	102	17-163	
Benzo(b)fluoranthene	ug/L	50	55.8	112	24-159	
Benzo(g,h,i)perylene	ug/L	50	51.4	103	1-219	
Benzo(k)fluoranthene	ug/L	50	47.8	96	11-162	
bis(2-Chloroethoxy)methane	ug/L	50	47.2	94	33-184	
bis(2-Chloroethyl) ether	ug/L	50	42.8	86	12-158	
bis(2-Chloroisopropyl) ether	ug/L	50	33.7	67	36-166	
bis(2-Ethylhexyl)phthalate	ug/L	50	47.0	94	8-158	
Butylbenzylphthalate	ug/L	50	51.0	102	1-152	
Chrysene	ug/L	50	49.1	98	17-168	
Di-n-butylphthalate	ug/L	50	52.0	104	1-120	
Di-n-octylphthalate	ug/L	50	51.7	103	4-146	
Dibenz(a,h)anthracene	ug/L	50	50.2	100	1-227	
Diethylphthalate	ug/L	50	48.2	96	1-120	
Dimethylphthalate	ug/L	50	48.2	96	1-120	
Fluoranthene	ug/L	50	50.2	100	26-137	
Fluorene	ug/L	50	46.5	93	59-121	
Hexachloro-1,3-butadiene	ug/L	50	44.0	88	24-120	
Hexachlorobenzene	ug/L	50	48.2	96	1-152	
Hexachlorocyclopentadiene	ug/L	50	46.2	92	1-110	
Hexachloroethane	ug/L	50	39.5	79	40-120	
Indeno(1,2,3-cd)pyrene	ug/L	50	52.2	104	1-171	
Isophorone	ug/L	50	50.1	100	21-196	
N-Nitroso-di-n-propylamine	ug/L	50	45.7	91	1-230	
N-Nitrosodimethylamine	ug/L	50	27.8	56	15-75	
N-Nitrosodiphenylamine	ug/L	50	51.1	102	59-125	
Naphthalene	ug/L	50	44.6	89	21-133	
Nitrobenzene	ug/L	50	48.8	98	35-180	
Pentachlorophenol	ug/L	50	52.6	105	14-176	
Phenanthrene	ug/L	50	50.7	101	54-120	
Phenol	ug/L	50	19.5	39	5-120	
Pyrene	ug/L	50	45.2	90	52-120	
2,4,6-Tribromophenol (S)	%.			94	20-155	
2-Fluorobiphenyl (S)	%.			66	2-103	
2-Fluorophenol (S)	%.			54	1-102	
Nitrobenzene-d5 (S)	%.			92	15-314	
p-Terphenyl-d14 (S)	%.			108	1-168	
Phenol-d5 (S)	%.			38	8-424	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

MATRIX SPIKE SAMPLE: 3698032

Parameter	Units	50382036001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	39.8	80	44-142	
1,2-Dichlorobenzene	ug/L	ND	50	40.3	81	18-94	
1,2-Diphenylhydrazine	ug/L	ND	50	50.4	101	24-129	
1,3-Dichlorobenzene	ug/L	ND	50	39.6	79	13-92	
1,4-Dichlorobenzene	ug/L	ND	50	39.7	79	15-92	
2,4,6-Trichlorophenol	ug/L	ND	50	46.9	94	37-144	
2,4-Dichlorophenol	ug/L	ND	50	45.5	91	39-135	
2,4-Dimethylphenol	ug/L	ND	50	54.1	108	32-120	
2,4-Dinitrophenol	ug/L	ND	50	49.9J	100	1-191	
2,4-Dinitrotoluene	ug/L	ND	50	52.5	105	39-139	
2,6-Dinitrotoluene	ug/L	ND	50	49.2	98	50-158	
2-Chloronaphthalene	ug/L	ND	50	43.5	87	60-120	
2-Chlorophenol	ug/L	ND	50	37.4	75	23-134	
2-Nitrophenol	ug/L	ND	50	45.3	91	29-182	
3,3'-Dichlorobenzidine	ug/L	ND	50	46.3	93	1-262	
4,6-Dinitro-2-methylphenol	ug/L	ND	50	54.1	108	1-181	
4-Bromophenylphenyl ether	ug/L	ND	50	47.5	95	53-127	
4-Chloro-3-methylphenol	ug/L	ND	50	47.0	94	22-147	
4-Chlorophenylphenyl ether	ug/L	ND	50	45.2	90	25-158	
4-Nitrophenol	ug/L	ND	50	29.3J	59	1-132	
Acenaphthene	ug/L	ND	50	42.2	84	47-145	
Acenaphthylene	ug/L	ND	50	43.8	88	33-145	
Anthracene	ug/L	ND	50	48.0	96	27-133	
Benzidine	ug/L	ND	50	23.6J	47	1-29	M0
Benzo(a)anthracene	ug/L	ND	50	46.1	92	33-143	
Benzo(a)pyrene	ug/L	ND	50	50.1	100	17-163	
Benzo(b)fluoranthene	ug/L	ND	50	52.9	106	24-159	
Benzo(g,h,i)perylene	ug/L	ND	50	48.2	96	1-219	
Benzo(k)fluoranthene	ug/L	ND	50	46.3	93	11-162	
bis(2-Chloroethoxy)methane	ug/L	ND	50	47.3	95	33-184	
bis(2-Chloroethyl) ether	ug/L	ND	50	37.6	75	12-158	
bis(2-Chloroisopropyl) ether	ug/L	ND	50	35.1	70	36-166	
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	45.3	91	8-158	
Butylbenzylphthalate	ug/L	ND	50	40.1	80	1-152	
Chrysene	ug/L	ND	50	47.9	96	17-168	
Di-n-butylphthalate	ug/L	ND	50	51.5	103	1-120	
Di-n-octylphthalate	ug/L	ND	50	52.7	105	4-146	
Dibenz(a,h)anthracene	ug/L	ND	50	47.1	94	1-227	
Diethylphthalate	ug/L	ND	50	48.9	98	1-120	
Dimethylphthalate	ug/L	ND	50	49.5	99	1-120	
Fluoranthene	ug/L	ND	50	48.9	98	26-137	
Fluorene	ug/L	ND	50	49.1	98	59-121	
Hexachloro-1,3-butadiene	ug/L	ND	50	39.6	79	24-120	
Hexachlorobenzene	ug/L	ND	50	45.8	92	1-152	
Hexachlorocyclopentadiene	ug/L	ND	50	40.2	80	1-86	
Hexachloroethane	ug/L	ND	50	39.4	79	40-120	
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	50.1	100	1-171	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

MATRIX SPIKE SAMPLE: 3698032

Parameter	Units	50382036001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Isophorone	ug/L	ND	50	48.9	98	21-196	
N-Nitroso-di-n-propylamine	ug/L	ND	50	48.3	97	1-230	
N-Nitrosodimethylamine	ug/L	ND	50	25.6	51	1-206	
N-Nitrosodiphenylamine	ug/L	ND	50	48.0	96	53-107	
Naphthalene	ug/L	ND	50	43.5	87	21-133	
Nitrobenzene	ug/L	ND	50	48.4	97	35-180	
Pentachlorophenol	ug/L	ND	50	48.3J	97	14-176	
Phenanthrene	ug/L	ND	50	48.5	97	54-120	
Phenol	ug/L	ND	50	17.7	35	5-120	
Pyrene	ug/L	ND	50	36.3	73	52-120	
2,4,6-Tribromophenol (S)	%.				89	20-155	
2-Fluorobiphenyl (S)	%.				68	2-103	
2-Fluorophenol (S)	%.				47	1-102	
Nitrobenzene-d5 (S)	%.				88	15-314	
p-Terphenyl-d14 (S)	%.				90	1-168	
Phenol-d5 (S)	%.				35	8-424	

SAMPLE DUPLICATE: 3698033

Parameter	Units	50382036002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	ND		50	
1,2-Dichlorobenzene	ug/L	ND	ND		40	
1,2-Diphenylhydrazine	ug/L	ND	ND		40	
1,3-Dichlorobenzene	ug/L	ND	ND		40	
1,4-Dichlorobenzene	ug/L	ND	ND		40	
2,4,6-Trichlorophenol	ug/L	ND	ND		58	
2,4-Dichlorophenol	ug/L	ND	ND		50	
2,4-Dimethylphenol	ug/L	ND	ND		58	
2,4-Dinitrophenol	ug/L	ND	ND		132	
2,4-Dinitrotoluene	ug/L	ND	ND		42	
2,6-Dinitrotoluene	ug/L	ND	ND		48	
2-Chloronaphthalene	ug/L	ND	ND		24	
2-Chlorophenol	ug/L	ND	ND		61	
2-Nitrophenol	ug/L	ND	ND		55	
3,3'-Dichlorobenzidine	ug/L	ND	ND		108	
4,6-Dinitro-2-methylphenol	ug/L	ND	ND		203	
4-Bromophenylphenyl ether	ug/L	ND	ND		43	
4-Chloro-3-methylphenol	ug/L	ND	ND		73	
4-Chlorophenylphenyl ether	ug/L	ND	ND		61	
4-Nitrophenol	ug/L	ND	ND		131	
Acenaphthene	ug/L	34.8	30.7	13	48	
Acenaphthylene	ug/L	ND	ND		74	
Anthracene	ug/L	ND	5.2J		66	
Benzidine	ug/L	ND	ND		40	
Benzo(a)anthracene	ug/L	ND	ND		53	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

SAMPLE DUPLICATE: 3698033

Parameter	Units	50382036002 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzo(a)pyrene	ug/L	ND	ND		72	
Benzo(b)fluoranthene	ug/L	ND	ND		71	
Benzo(g,h,i)perylene	ug/L	ND	ND		97	
Benzo(k)fluoranthene	ug/L	ND	ND		63	
bis(2-Chloroethoxy)methane	ug/L	ND	ND		54	
bis(2-Chloroethyl) ether	ug/L	ND	ND		108	
bis(2-Chloroisopropyl) ether	ug/L	ND	ND		76	
bis(2-Ethylhexyl)phthalate	ug/L	ND	ND		82	
Butylbenzylphthalate	ug/L	ND	ND		60	
Chrysene	ug/L	ND	ND		87	
Di-n-butylphthalate	ug/L	ND	ND		47	
Di-n-octylphthalate	ug/L	ND	ND		69	
Dibenz(a,h)anthracene	ug/L	ND	ND		126	
Diethylphthalate	ug/L	ND	ND		100	
Dimethylphthalate	ug/L	ND	ND		183	
Fluoranthene	ug/L	ND	ND		66	
Fluorene	ug/L	19.5	16.7	16	38	
Hexachloro-1,3-butadiene	ug/L	ND	ND		62	
Hexachlorobenzene	ug/L	ND	ND		55	
Hexachlorocyclopentadiene	ug/L	ND	ND		40	
Hexachloroethane	ug/L	ND	ND		52	
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND		99	
Isophorone	ug/L	ND	ND		93	
N-Nitroso-di-n-propylamine	ug/L	ND	ND		87	
N-Nitrosodimethylamine	ug/L	ND	ND		40	
N-Nitrosodiphenylamine	ug/L	ND	ND		40	
Naphthalene	ug/L	ND	8.2J		65	
Nitrobenzene	ug/L	ND	ND		62	
Pentachlorophenol	ug/L	ND	ND		86	
Phenanthrene	ug/L	27.8	19.8	34	39	
Phenol	ug/L	ND	ND		64	
Pyrene	ug/L	ND	ND		49	
2,4,6-Tribromophenol (S)	%.	104	88			
2-Fluorobiphenyl (S)	%.	54	51			
2-Fluorophenol (S)	%.	43	50			
Nitrobenzene-d5 (S)	%.	81	88			
p-Terphenyl-d14 (S)	%.	89	93			
Phenol-d5 (S)	%.	30	38			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

QC Batch: 808863
QC Batch Method: SM 2540D
Analysis Method: SM 2540D
Analysis Description: 2540D Total Suspended Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50382036001, 50382036002

METHOD BLANK: 3699734 Matrix: Water
Associated Lab Samples: 50382036001, 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	2.5	09/13/24 11:07	

LABORATORY CONTROL SAMPLE: 3699735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	95.0	95	80-120	

SAMPLE DUPLICATE: 3699736

Parameter	Units	50382016003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	546	603	10	10	

SAMPLE DUPLICATE: 3699737

Parameter	Units	50382094001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	50.5	46.0	9	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

QC Batch: 808370
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50382036001, 50382036002

METHOD BLANK: 3696942 Matrix: Water
Associated Lab Samples: 50382036001, 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	09/16/24 11:09	B3

LABORATORY CONTROL SAMPLE: 3696944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	228	115	85-115	

SAMPLE DUPLICATE: 3696945

Parameter	Units	50382011001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	16.8	17.1	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

QC Batch: 808605
QC Batch Method: EPA 335.4
Analysis Method: EPA 335.4
Analysis Description: 335.4 Cyanide, Total
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50382036001, 50382036002

METHOD BLANK: 3698046 Matrix: Water
Associated Lab Samples: 50382036001, 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	09/14/24 11:12	

LABORATORY CONTROL SAMPLE: 3698047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.1	0.097	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3698048 3698049

Parameter	Units	50382036002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	ND	0.1	0.1	0.10	0.10	96	99	90-110	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

QC Batch: 808913
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50382036001, 50382036002

METHOD BLANK: 3699965 Matrix: Water
Associated Lab Samples: 50382036001, 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	09/13/24 14:57	

LABORATORY CONTROL SAMPLE: 3699966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5	5.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3699967 3699968

Parameter	Units	50382128001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.17	5	5	5.2	5.2	100	101	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3699969 3699970

Parameter	Units	50381587001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	2.6	5	5	7.3	7.4	94	96	90-110	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

QC Batch: 808457
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50382036001, 50382036002

METHOD BLANK: 3697204 Matrix: Water
Associated Lab Samples: 50382036001, 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	09/12/24 23:55	

LABORATORY CONTROL SAMPLE: 3697205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3697206 3697207

Parameter	Units	50381751022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	3.4	10	10	13.8	13.8	104	104	80-120	0	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: South Bend NPDES
Pace Project No.: 50382036

QC Batch: 808480
QC Batch Method: EPA 9014 Free Cyanide
Analysis Method: EPA 9014 Free Cyanide
Analysis Description: 9014 Free Cyanide
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50382036001, 50382036002

METHOD BLANK: 3697329 Matrix: Water
Associated Lab Samples: 50382036001, 50382036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Free	ug/L	ND	100	09/11/24 15:29	N2

LABORATORY CONTROL SAMPLE: 3697330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide, Free	ug/L	2000	2070	103	90-110	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3697331 3697332

Parameter	Units	50382036001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide, Free	ug/L	ND	2000	2000	1990	1970	99	98	90-110	1	20	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: South Bend NPDES
Pace Project No.: 50382036

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 808936

[BM]	Matrix precision data could not be provided for this analytical batch due to insufficient sample volume.
[1]	

ANALYTE QUALIFIERS

1d	Neither matrix spike nor matrix precision data could be provided for this analytical batch due to insufficient sample volume.
B3	The dissolved oxygen depletion of the dilution water blank exceeded 0.2 mg/L.
BM	Matrix precision data could not be provided for this analytical batch due to insufficient sample volume.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
LS	Analyte recovery in the laboratory control sample (LCS) was outside QC limits for one or more of the constituent analytes used in the calculated result.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
P2	Re-extraction or re-analysis could not be performed due to insufficient sample amount.
R6	The RPD between valid sample dilutions exceeded 30%.
c3	Analysis of 2-chloroethyl vinyl ether was performed from a sample that was field preserved to pH < 2 with HCl. Acid preservation is not allowed for this parameter by the test method or for NPDES compliance per 40CFR Part 136.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: South Bend NPDES
Pace Project No.: 50382036

ANALYTE QUALIFIERS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: South Bend NPDES
Pace Project No.: 50382036

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50382036001	**MW19-091024-1240**	EPA 1631E	809044	EPA 1631E	809208
50382036002	**MW07-091024-1140**	EPA 1631E	809044	EPA 1631E	809208
50382036001	**MW19-091024-1240**	EPA 1664A	808936		
50382036002	**MW07-091024-1140**	EPA 1664A	808936		
50382036001	**MW19-091024-1240**	EPA 300.0	808442		
50382036002	**MW07-091024-1140**	EPA 300.0	808442		
50382036001	**MW19-091024-1240**	EPA 608.3	808481	EPA 608.3	808549
50382036002	**MW07-091024-1140**	EPA 608.3	808481	EPA 608.3	808549
50382036001	**MW19-091024-1240**	EPA 608.3	808839	EPA 608.3	809130
50382036002	**MW07-091024-1140**	EPA 608.3	808839	EPA 608.3	809130
50382036001	**MW19-091024-1240**	EPA 200.7	808492	EPA 200.7	808793
50382036002	**MW07-091024-1140**	EPA 200.7	808492	EPA 200.7	808793
50382036001	**MW19-091024-1240**	EPA 200.8	808506	EPA 200.8	808788
50382036002	**MW07-091024-1140**	EPA 200.8	808506	EPA 200.8	808788
50382036001	**MW19-091024-1240**	EPA 625.1	808602	EPA 625.1	808727
50382036002	**MW07-091024-1140**	EPA 625.1	808602	EPA 625.1	808727
50382036001	**MW19-091024-1240**	EPA 624.1	808446		
50382036002	**MW07-091024-1140**	EPA 624.1	808955		
50382036003	**20988-091024-0001**	EPA 624.1	808446		
50382036001	**MW19-091024-1240**	EPA 5030/8260	808653		
50382036002	**MW07-091024-1140**	EPA 5030/8260	808653		
50382036001	**MW19-091024-1240**	SM 2540D	808863		
50382036002	**MW07-091024-1140**	SM 2540D	808863		
50382036001	**MW19-091024-1240**	SM 5210B	808370	SM 5210B	808471
50382036002	**MW07-091024-1140**	SM 5210B	808370	SM 5210B	808471
50382036001	**MW19-091024-1240**	EPA 335.4	808605	EPA 335.4	809001
50382036002	**MW07-091024-1140**	EPA 335.4	808605	EPA 335.4	809001
50382036001	**MW19-091024-1240**	EPA 350.1	808913		
50382036002	**MW07-091024-1140**	EPA 350.1	808913		
50382036001	**MW19-091024-1240**	SM 5310C	808457		
50382036002	**MW07-091024-1140**	SM 5310C	808457		
50382036001	**MW19-091024-1240**	EPA 9014 Free Cyanide	808480		
50382036002	**MW07-091024-1140**	EPA 9014 Free Cyanide	808480		

Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 50382036

50382036

Company Name:	NiSource_Haley & Aldrich	Contact/Report To:	Jennifer Williams
Street Address:	150 W Market Street Suite 600 Indianapolis, IN 46204	Phone #:	(317)694-4303
		E-Mail:	jenniferwilliams@nisource.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	South Bend NPDES	Invoice To:	Accounts Payable
		Invoice E-Mail:	ariba.invoices@pacelabs.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	PO
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Indiana
Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____ Date Results Requested: 5 Day TAT	DW PWSID # or WW Permit # as applicable: Field Filtered (if applicable): [ ] Yes [X] No Analysis:	

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	VOC by 624.1*	SVOC by 625.1+PCB/Pests by 608.3	Oil & Grease 1664	Chloride+Sulfate by 300	Hardness 200.7+ metals by 200.8**	LLHg by 1631	BOD 5210+TSS 2540D	Ammonia 350.1+TOC 5310	Total CN 335.4+Free CN 9014	TCLP VOC by 8260	Sample Comment	Preservation non-conformance identified for sample.
MW19-091024-1240	GW	G	9/10/24	1240			20	0.001	ppm	3	6	2	1	1	1	2	2	1	1		
MW07-091024-1140	GW	G	9/10/24	1140			20	0.000	ppm	3	6	2	1	1	1	2	2	1	1		
20988-091024-0800 0001	GW	G	9/10/24	0800			3	\	\	X										Trip Blank	

Specify Container Size **: 6 1 1 3 3 3 1 3 3 10

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

Identify Container Preservative Type***: 1 1 4 1 2 4 1 2 5 1

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Lab Use Only
- Proj. Mgr: **Tina Sayer**
- AcctNum / Client ID:
- Table #:
- Profile / Template: **9334-2**
- Prelog / Bottle Ord. ID: **EZ 3152727**

Additional Instructions from Pace®:
***BOD + 624.1 have 48 hour hold time**
****200.8 metals= Be, Cr, Ni, Cu, Zn, As, Se, Ag, Cd, Sb, Tl, and Pb**

Collected By: (Printed Name) Elena Barth
Signature: Elena D. Barth

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
3	C	0.0	See SCUR		Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Elena Barth H&A	9/10/24 1700	Tabitha Scheller Pace	9/10/24 1700	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [✓] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 9/10/24 1725 TS

1. **Courier:** ☐ FED EX ☐ UPS ☑ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____
2. **Custody Seal on Cooler/Box Present:** ☑ Yes ☐ No
   (If yes)Seals Intact: ☑ Yes ☐ No **(leave blank if no seals were present)**
3. **Thermometer:** 1 2 3 4 5 6 7 8 9 (A) B C D E F G H I
4. **Cooler Temperature(s):** 3.3/3.3 | 1.1/1.1 | 1.1/1.1 | _____
   (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **Was the PM notified of out of temp cooler?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	✓		
Short Hold Time Analysis (48 hours or less)? Analysis: BOD - 624.1	✓					
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)		✓	
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)		✓	
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent ✓	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		✓	Trip Blank Present?	✓		
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:	✓		

COMMENTS: One "MW07-091024-1240" AG1H bottle is missing "MW07" from label TS 9/10
Two "MW19-091024-1140" AG1H bottles missing times TS 9/10

COC PAGE 1 of 1

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

									AMBER GLASS							PLASTIC								OTHER					Matrix	Nitric Red	Sulfuric Yellow	Sodium Hydroxide Green	Sodium Hydroxide/ ZnAc Black
COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit				HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1	1					3			2	6		1			2			1	1		1	1		1					✓	✓	✓	
2	↓					↓			↓	↓		↓			↓			↓	↓		↓	↓		↓					↓	✓	✓	✓	
3				3		✓ IBJ m																						↓				
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	

Plastic

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic

NT3U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe