



700 West Liberty Street | Louisville, KY 40203-1911
Phone: 502.540.6000 | LouisvilleMSD.org

January 24th, 2024

Crystal Dennis
300 Sower Blvd., 3rd Floor
Frankfort, Kentucky 40601

**RE: Ohio River STP, KPDES No: KY0106143
Discharge Monitoring Report for December 2024.**

Dear Ms. Dennis:

Attached are the Discharge Monitoring Report (DMR) for the Ohio River STP, for the month December 2024.

See attached Overflow report.

There were no bypasses. There was one exceedance it was for E. Coli 7-day Geo with a permit limit of 240mg/L and a result of 60000 mg/L. There was maintenance performed on the UV system. Monthly E. Coli passed.

If you have any questions concerning the attached DMR's, please contact me at (502) 264-2804.

Sincerely,

Alex Smither
Process Supervisor

CAS/OR 12/24.

Cc: V. Teague, B. Tinnel

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the [NPDES eReporting Help Desk](#) for further guidance. Please note that EPA may contact you after you submit this report for more information.

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Permit

Permit #:
Major:

KY0106143
Yes

Permittee:
Permittee Address:

Louisville and Jefferson County MSD
700 W Liberty St
Louisville, KY 40203

Facility:
Facility Location:

OHIO RIVER WWTP
1901 LANDING RD
GOSHEN, KY 40026

Permitted Feature:

001
External Outfall

Discharge:

001-1
Domestic Wastewater from a Publicly Owned Treatment Works

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:
Last Name:

Tony
Parrott

Title:

Executive Director

Telephone:

502-540-6533

No Data Indicator (NODI)

Form NODI:

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Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample						=	6.7					19 - mg/L	0	01/07 - Weekly	GR - Grab
					Permit Req.						>=	2.0 INST MIN					19 - mg/L			
					Value NODI															
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample	=	26.0	=	36.0	26 - lb/d			=	6.0	=	9.0	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite
					Permit Req.	<=	375.0 MO AVG	<=	563.0 MX WK AV	26 - lb/d			<=	30.0 MO AVG	<=	45.0 MX WK AV	19 - mg/L			
					Value NODI															
00310	BOD, 5-day, 20 deg. C	G - Raw Sewage Influent	0	--	Sample								=	245.0	=	301.0	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L			
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample						=	7.12			=	7.25	12 - SU	0	01/07 - Weekly	GR - Grab
					Permit Req.						>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU			
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	32.0	=	50.0	26 - lb/d			=	6.0	=	7.0	19 - mg/L	0	01/07 - Weekly	CP - Composite
					Permit Req.	<=	375.0 MO AVG	<=	563.0 MX WK AV	26 - lb/d			<=	30.0 MO AVG	<=	45.0 MX WK AV	19 - mg/L			
					Value NODI															
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample								=	383.0	=	569.0	19 - mg/L	0	01/07 - Weekly	CP - Composite
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L			
					Value NODI															
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample								=	34.0	=	52.9	19 - mg/L	0	01/07 - Weekly	CP - Composite
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI															
00600	Nitrogen, total [as N]	G - Raw Sewage Influent	0	--	Sample								=	68.5	=	104.8	19 - mg/L	0	01/07 - Weekly	CP - Composite
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	--	Sample								=	1.0	=	1.9	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite
					Permit Req.								<=	20.0 MO AVG	<=	30.0 DAILY MX	19 - mg/L			
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample								=	2.67	=	3.63	19 - mg/L	0	01/07 - Weekly	CP - Composite
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			

					Value NODI																
00665	Phosphorus, total [as P]	G - Raw Sewage Influent	0	--	Sample									=	5.56	=	8.5	19 - mg/L	0	01/07 - Weekly	CP - Composite
					Permit Req.										Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite
					Value NODI																
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	0.6767	=	1.5657	03 - MGD									0	99/99 - Continuous	RC - Recorder (auto)
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD										99/99 - Continuous	RC - Recorder (auto)
					Value NODI																
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	--	Sample	=	0.7558	=	1.6361	03 - MGD									0	01/07 - Weekly	CA - Calculated
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD										99/99 - Continuous	RC - Recorder (auto)
					Value NODI																
X 51040	E. coli	1 - Effluent Gross	0	--	Sample									=	18.7	=	60000.0	13 - #/100mL	0	01/07 - Weekly	GR - Grab
					Permit Req.									<=	130.0 30DA GEO	<=	240.0 7 DA GEO	13 - #/100mL		01/07 - Weekly	GR - Grab
					Value NODI																
81010	BOD, 5-day, percent removal	K - Percent Removal	0	--	Sample								=	97.8			23 - %		01/30 - Monthly	CA - Calculated	
					Permit Req.									>=	85.0 MO AV MN				23 - %	01/30 - Monthly	CA - Calculated
					Value NODI																
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample								=	98.4			23 - %	0	01/30 - Monthly	CA - Calculated	
					Permit Req.									>=	85.0 MO AV MN				23 - %	01/30 - Monthly	CA - Calculated
					Value NODI																

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
51040	E. coli	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes

Comments

Attachments

Name		Type	Size
OHIO_RIVER_COVER_12_24.pdf		pdf	41056.0
OHIO_RIVER_DISCHARGE_12_24.pdf		pdf	53525.0

Report Last Saved By

Louisville and Jefferson County MSD

User:	ALEX.SMITHER@LOUISVILLEMSD.ORG
Name:	Charles Smither
E-Mail:	alex.smither@louisvillemSD.org
Date/Time:	2025-01-24 10:21 (Time Zone: -05:00)

Report Last Signed By

User:	ALEX.SMITHER@LOUISVILLEMSD.ORG
Name:	Charles Smither
E-Mail:	alex.smither@louisvillemSD.org
Date/Time:	2025-01-24 10:21 (Time Zone: -05:00)



IMSAST0004
Overflow Report
12/1/2024 12:00:00 AM to 12/31/2024 12:00:00 AM

KPDES #	Facility ID	Water Quality Treatment Center			Receiving Stream of Discharge		Region				
KY0106143	MSD0407	OHIO RIVER			OHIO RIVER		NA				
Facility Type	Facility ID	Facility Address		If Pump Station, Name of Station			Receiving Stream		Discharge To		
Sewer Treatment Plant	MSD0407	1818	LANDING RD	OHIO RIVER			OHIO RIVER		STREAM		
Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	3880093		12/16/2024 2:11:00 PM	SMITHER	SMITHER	REPAIRED - ISSUE RESOLVED	12/16/2024 12:00:00 AM	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE-WATERS	12/16/24 11:45 AM	

Discharge Reporting:

Discharge Amount:	15,000 GAL
Cause:	ELECTRICAL PROBLEM WITH MSD EQUIPMENT/ASSET, AMIN BREAKER TRIPPED DURING GENERATOR EXERCISE.
Clean Up:	CLEANUP NOT POSSIBLE DUE TO DISCHARGE TO OHIO RIVER.
Control Zone:	NONE.
Impact:	NONE.
Repair:	MET WITH THE OPERATOR AND SHOWED HOW TO RESET THE MAIN BREAKER.
Public Notification:	NONE.

Notifications:

12/17/24 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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**Acute Toxicity Evaluation
for the
Ohio River WWTP**

December 2024

Prepared by:

Beckmar Environmental Laboratory
Biomonitoring Department
3251 Ruckriegel Parkway
Louisville, KY. 40299
(502) 266-6533

Submitted to:

Ohio River WWTP
1701 Landing Road
Goshen, KY. 40026

Released by: _____



Biomonitoring QA Officer

1-26-2025

Summary

Acute toxicity testing was performed on final effluent samples collected December 12 and 13, 2024 from the Ohio River Wastewater Treatment Plant. Testing was performed December 13 through 15, 2024 and upon termination, the following conclusions were reached:

For the 48-hour *Ceriodaphnia dubia* survival test, the LC_{50s} for survival for samples “A” and “B” were greater than 100% effluent, generating an acute toxicity value of less than 1.00 TUa (TUa=100/LC₅₀).

Introduction

At the request of Ohio River WWTP, acute toxicity testing was performed on two grab effluent samples collected December 12 and 13, 2024 from the Ohio River Wastewater Treatment Plant in Goshen, KY. Information concerning plant and laboratory conditions can be found on the following pages.

The acute toxicity testing was performed in accordance with the US EPA methodology as defined in the US EPA manual “Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms” fifth edition, 2002 (EPA-821-R-02-012). The acute toxicity tests were performed in order to ascertain the LC₅₀ values for *Ceriodaphnia dubia* survival.

Test Type: Acute X Screen
Chronic Definitive X

TOXICITY TEST REPORT SHEET

- 1) Facility/Discharger: Ohio River WWTP Report Date: 1/26/2025
- 2) Address: 1701 Landing Road, Goshen KY 40026
- 3) NPDES Permit #: KY0106143 4) Receiving Stream: Ohio River @ mile pt. 391.5
- 5) Facility Contact:
- 6) Phone #:
- 7) Consultant/Testing Lab Name: Beckmar Environmental Laboratory
- 8) Lab Contact: Becky Barker Phone #: (502) 266-6533
- 9) Outfall(s) Tested: 1
- 10) Average Daily flow on day sampled (MGD) 1) na 2) na
3) na 4) 5) 6) 7)
- 11) Test Species: 1) Ceriodaphnia dubia 2)
- 12) Species Age: 1) < 24 hours old 2)
- 13) Organism Source: 1) lab culture 2)
- 14) Acclimation Procedures: 1) Reared at test conditions in synthetic water
2)
- 15) Test Conditions: Static: X Static-Renewal:
- 16) Dilution Water Type (Synthetic, Receiving Stream) synthetic - mhs
- 17) Aeration? (Before Test/During Test/None): no
- 18) Dechlorination? no Original Chlorine Level: <0.01 mg/L



(Signature of person filling out form)

Rhonda Baker

Name (Typed or Printed)

1/26/2025

Date

Biologist

Title

Materials and Methods

Sampling

Two effluent samples were collected 12 hours apart (Table I) and delivered to Beckmar Environmental Laboratory. Upon receipt, each sample went through standard log in procedures.

Control/Dilution Water

All chemicals used are reagent grade, obtained from Aldrich. 1.20 grams of CaSO_4 , 1.2 grams of MgSO_4 , 1.92 grams of NaHCO_3 , and 0.080 grams of KCl were dissolved in distilled water provided by a Barnstead Thermolyne distillation system and aerated for a minimum of 24 hours.

Test Containers

C. dubia tests were performed in 1 ounce plastic cups obtained from Plastics Inc. (St. Paul, MN).

Toxicity Testing

Samples were allowed to warm to room temperature (25°C) and were tested for residual chlorine immediately prior to dilution. Testing was then performed in accordance with US EPA methodology. Data was recorded on Beckmar generated lab sheets (Appendix I).

Chemical Analysis

All test dilutions as well as control/dilution water were tested to determine initial dissolved oxygen, temperature, and pH. At the end of 48 hours, the control/dilution water and test dilutions were again tested to determine final dissolved oxygen, temperature and pH. Also, specific conductance, hardness, and alkalinity analyses were performed on the initial control/dilution water and 100% effluent samples. Data was recorded on Beckmar generated lab sheet (Appendix I).

Statistical Analysis

Statistical data was generated using ToxCalc 5.0® (Tidepool Scientific software, McKinleyville, CA) and ToxStat® (USEPA, Cincinnati, OH) on a Pentium IV®, computer using Windows 98® Operating System.

Additional Toxicity Test Information

- 1) Submit copies of all bench sheets and statistical calculations/printouts obtained during the test(s). Data must be presented in tabular form and must include all physical and/or chemical measurements recorded during the test (e.g. temperature, conductivity, total residual chlorine, dissolved oxygen, etc.).

- 2) Methods/Instrumentation used in chemical analysis:

Dissolved Oxygen/temperature:	YSI Model 58
PH:	Orion Model 720A
Conductivity:	Oakton CON 300 Series
Alkalinity:	Standard Methods Titration
Hardness:	Standard Methods Titration
Total Chlorine Residual:	Fisher-Porter Titration
EPA Acute/Chronic Manual:	5 th Acute Edition, 2002

- 3) Indicate below any other relevant information that may aid in the evaluation of this report. Include any deviations from EPA methodology that was necessary for these tests as well as any sample manipulations that were performed, such as aeration, dechlorination with sodium thiosulfate, etc., and the justification for such manipulations or deviations. Attach additional pages as needed.
- 4) Sample temperature upon receipt may be greater than 4°C. Samples are picked up immediately after the final grab sample is collected. The samples are refrigerated; however it may be impossible to rapidly drop the effluent to 4°C.

TABLE I
Sampling Summary

Outfall	Sample Type	Volume	Collection Period	Rainfall	Sample Temp
1	Grab	1 gallon	12/12/24 @ 6:30 p.m.	NA	1.0 degrees C
	Grab	1 gallon	12/13/24 @ 8:00 a.m.	NA	3.0 degrees C

Dates/Times of Test Performance

Species #1: Ceriodaphnia dubia

Initiated: 12/13/24 @ 4:00 P.M.

Terminated 12/15/24 @ 4:00 P.M.

Results

In sample “A”, *Ceriodaphnia dubia* exhibited 100% survival in the control, 100% survival in the 20% dilution, 100% survival in the 40% dilution, 100% survival in the 60% dilution, 100% survival in the 80% dilution, and 100% survival in the 100% dilution.

In sample “B”, *Ceriodaphnia dubia* exhibited 100% survival in the control, 100% survival in the 20% dilution, 100% survival in the 40% dilution, 100% survival in the 60% dilution, 100% survival in the 80% dilution, and 100% survival in the 100% dilution.

For the 48-hour *Ceriodaphnia dubia* survival test, the LC_{50s} for survival for samples “A” and “B” were greater than 100% effluent, generating an acute toxicity value of less than 1.0 TUa.

Appendix I

Ceriodaphnia dubia Data Sheets

Ceriodaphnia Survival and Reproduction Test-48 Hr Survival

Start Date: 12/13/2024	Test ID: ORp1224	Sample ID: ORpm1224
End Date: 12/15/2024	Lab ID: 0044: Beckmar Lab	Sample Type: EFF1-POTW
Sample Date: 12/12/2024	Protocol: EPA 821 RO2012	Test Species: CD-Ceriodaphnia dubia
Comments: Ohio River Acute Cerio December 2024 PM		

Conc-%	1	2	3	4
B-Control	1.0000	1.0000	1.0000	1.0000
20	1.0000	1.0000	1.0000	1.0000
40	1.0000	1.0000	1.0000	1.0000
60	1.0000	1.0000	1.0000	1.0000
80	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000	1.0000	1.0000

Transform: Arcsin Square Root

Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N
B-Control	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4
20	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4
40	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4
60	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4
80	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4
100	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	1	0.884		
Equality of variance cannot be confirmed				

Grab # A

Toxicity Test Results

Results of Ceriodaphnia dubia 48 HR. ACUTE Toxicity Test
(Genus) (Species) (Type / Duration)

Conducted: 12/13/24 -- 12/15/24 Using Effluent from Outfall # 1
(mm/dd/yy) (mm/dd/yy)

Test Solution	Percent Survival (time intervals used:- DAY)								# of Young		Dry Weight	
	1	2	3	4	5	6	7	8	Total	Mean	Total	Mean
Control	100	100										
20% Effluent	100	100										
40% Effluent	100	100										
60% Effluent	100	100										
80% Effluent	100	100										
100% Effluent	100	100										
LC ₅₀ / IC ₂₅ Value: <u>>100%</u>					Calculated TU Estimate * <u>< 1.00 Tua</u> (indicate Acute/Chronic)							
95% Confidence Limits												
UL: <u>na</u>					Permit Limits: <u>1.00 Tua</u> (Indicate TU _a / TU _c)							
LL: <u>na</u>												
UL = Upper Limit LL = Lower Limit					If acute test, method used to determine LC50 and Confidence Limit Valued:							

Note: TU_a = 100/LC₅₀; TU_c = 100/IC₂₅

Reference Toxicant Test Results

Species	Date	Time	Duration	Toxicant	Results (LC ₅₀ / IC ₂₅)
<u>Ceriodaphnia</u>	<u>12/10/24</u>	<u>2:00 P.M.</u>	<u>48 hrs.</u>	<u>NaCl</u>	<u>LC50=2.4341g/l</u>
<u>dubia</u>					

Ceriodaphnia Survival and Reproduction Test-48 Hr Survival

Start Date: 12/13/2024	Test ID: ORa1224	Sample ID: ORam1224
End Date: 12/15/2024	Lab ID: 0044: Beckmar Lab	Sample Type: EFF1-POTW
Sample Date: 12/13/2024	Protocol: EPA 821 RO2012	Test Species: CD-Ceriodaphnia dubia
Comments: Ohio River Acute Cerio December 2024 AM		

Conc-%	1	2	3	4
B-Control	1.0000	1.0000	1.0000	1.0000
20	1.0000	1.0000	1.0000	1.0000
40	1.0000	1.0000	1.0000	1.0000
60	1.0000	1.0000	1.0000	1.0000
80	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000	1.0000	1.0000

Transform: Arcsin Square Root

Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N
B-Control	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4
20	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4
40	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4
60	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4
80	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4
100	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4

Auxiliary Tests

	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	1	0.884		
Equality of variance cannot be confirmed				

Grab # B

Toxicity Test Results

Results of Ceriodaphnia dubia 48 HR. ACUTE Toxicity Test
(Genus) (Species) (Type / Duration)

Conducted: 12/13/24 -- 12/15/24 Using Effluent from Outfall # 1
(mm/dd/yy) (mm/dd/yy)

Test Solution	Percent Survival (time intervals used:- DAY)								# of Young		Dry Weight	
	1	2	3	4	5	6	7	8	Total	Mean	Total	Mean
Control	100	100										
20% Effluent	100	100										
40% Effluent	100	100										
60% Effluent	100	100										
80% Effluent	100	100										
100% Effluent	100	100										
LC ₅₀ / IC ₂₅ Value: <u>>100%</u>					Calculated TU Estimate * <u>< 1.00 Tua</u> (indicate Acute/Chronic)							
95% Confidence Limits					Permit Limits: <u>1.00 Tua</u> (Indicate TU _a / TU _c)							
UL: <u>na</u>					If acute test, method used to determine LC50 and Confidence Limit Valued:							
LL: <u>na</u>												
UL = Upper Limit LL = Lower Limit												

Note: TU_a = 100/LC₅₀; TU_c = 100/IC₂₅

Reference Toxicant Test Results					
Species	Date	Time	Duration	Toxicant	Results (LC ₅₀ / IC ₂₅)
<u>Ceriodaphnia</u>	<u>12/10/24</u>	<u>2:00 P.M.</u>	<u>48 hrs.</u>	<u>NaCl</u>	<u>LC50=2.4341g/l</u>
<u>dubia</u>					



Client: OHIO RIVER
Beckmar Sample Number 241213008.2
Client Contact: _____
NPDES Permit No: _____
Sample Collector: _____

Persons Conducting Test: Y.B. Barker
Test Period: Beginning Date: 12-13-2024 Time: 4P
Ending Date: 12-15-2024 Time: 4P

Test Species: C. dubia
Age / Source: <24 hrs. / lab culture
Dilution Water Used: MHSW

Grab Sample Collected: (1) 800 am/pm; 12/13/24 (Date)
(2) _____ am/pm; _____ (Date)

Sample ID	Test Container Number	Number of Live Organisms			Dissolved Oxygen (mg/l) / Temp C		pH		Total Alkalinity (mg/l as CaCO ₃)	Total Hardness (mg/l as CaCO ₃)	Conductivity (umhos/cm)	Total Residual Chlorine (mg/L)
		0	24	48	0	48	0	48				
C	1	5	5	5	8.1/24.0	8.0/24.0	7.82	7.98	81.3	114.2	405	20.01
	2								81.3			
	3											
	4											
20%	1				8.2/24.0	8.0/24.0	7.63	7.94				
	2											
	3											
	4											
40%	1				8.4/24.0	8.0/24.0	7.42	7.84				
	2											
	3											
	4											
60%	1				8.6/24.0	8.1/24.0	7.35	7.70				
	2											
	3											
	4											
80%	1				9.0/24.0	8.2/24.0	7.16	7.59				
	2											
	3											
	4											
100%	1				9.3/24.0	8.3/24.0	6.95	7.37	130.7	40	1038	20.01
	2									380.3		
	3											
	4											

08-2-24
12-13-24

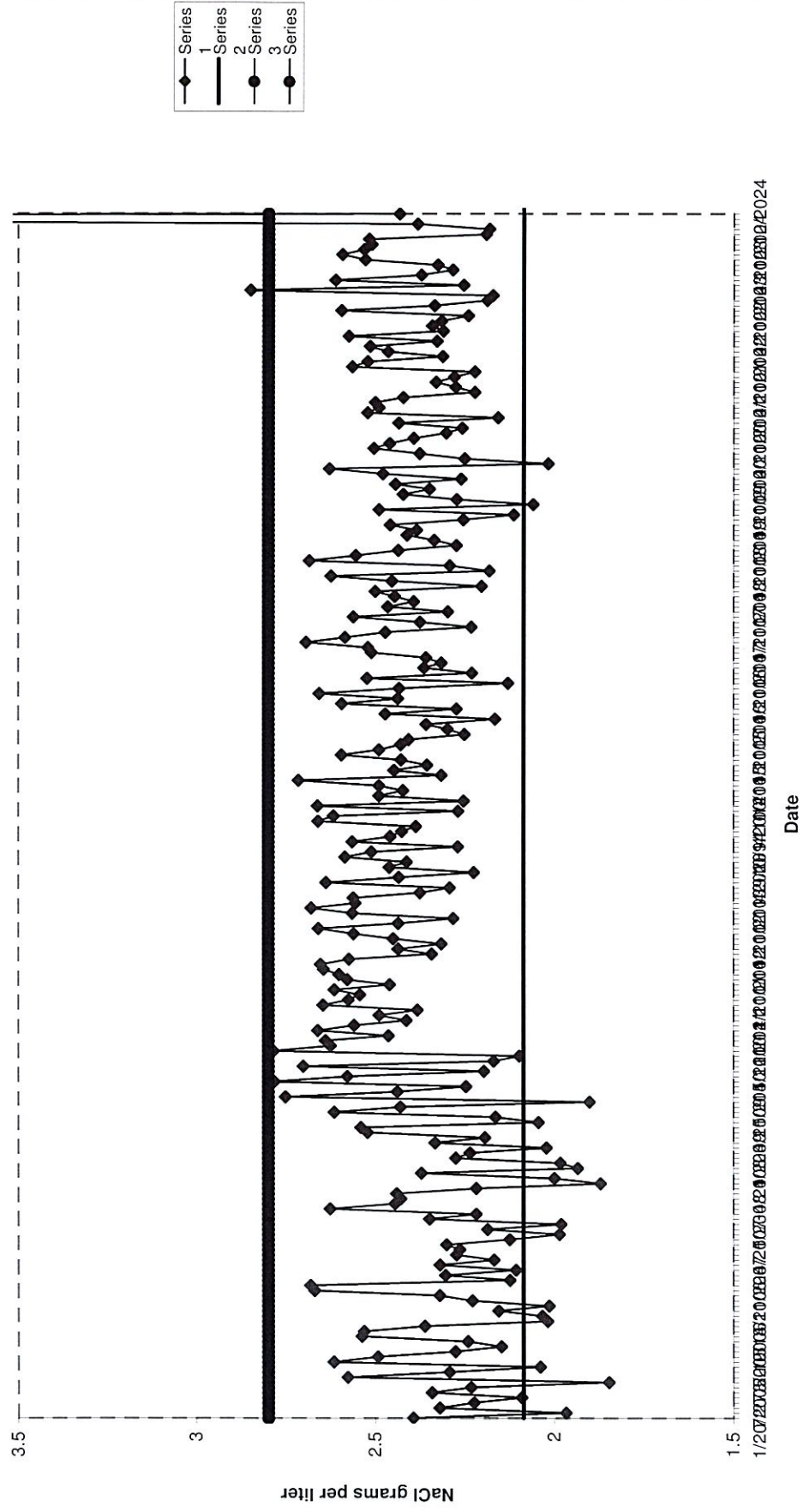
Appendix II

Chain of Custody Data Sheets

Appendix III

NaCl Reference Data Sheets

C. dubia NaCl Reference Test Acceptability



Ceriodaphnia Survival and Reproduction Test-48 Hr Survival

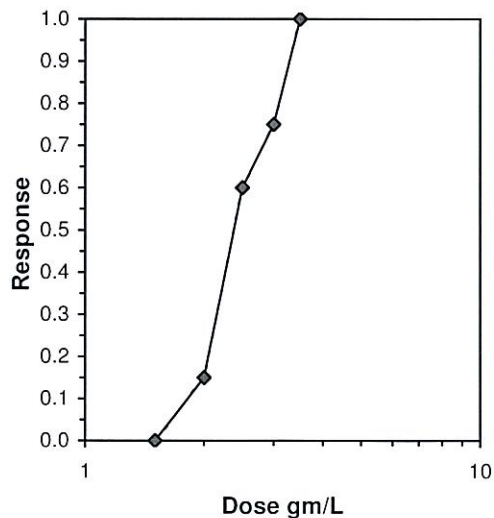
Start Date: 12/10/2024	Test ID: naAC1224	Sample ID: naAC122024
End Date: 12/12/2024	Lab ID: 0044: Beckmar Lab	Sample Type: NACL-Sodium chloride
Sample Date:	Protocol: EPA 821 RO2012	Test Species: CD-Ceriodaphnia dubia
Comments: NaCl Cerio acute December 2024		

Conc-gm/L	1	2	3	4
B-Control	1.0000	1.0000	1.0000	1.0000
1.5	1.0000	1.0000	1.0000	1.0000
2	1.0000	0.8000	0.8000	0.8000
2.5	0.2000	0.4000	0.4000	0.6000
3	0.2000	0.4000	0.2000	0.2000
3.5	0.0000	0.0000	0.0000	0.0000

Conc-gm/L	Mean	N-Mean	Transform: Arcsin Square Root					N	Number Resp	Total Number
			Mean	Min	Max	CV%				
B-Control	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4		0	20
1.5	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4		0	20
2	0.8500	0.8500	1.1667	1.1071	1.3453	10.206	4		3	20
2.5	0.4000	0.4000	0.6798	0.4636	0.8861	25.383	4		12	20
3	0.2500	0.2500	0.5189	0.4636	0.6847	21.301	4		15	20
3.5	0.0000	0.0000	0.2255	0.2255	0.2255	0.000	4		20	20

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.01)	0.81596	0.868	0.5459	1.81743
Equality of variance cannot be confirmed				

Trimmed Spearman-Kärber			
Trim Level	EC50	95% CL	
0.0%	2.4341	2.2728	2.6067
5.0%	2.4460	2.2711	2.6344
10.0%	2.4511	2.2689	2.6480
20.0%	2.4338	2.2328	2.6529
Auto-0.0%	2.4341	2.2728	2.6067





Persons Conducting Test: P. Barker
Test Period: Beginning 12-10-2024 Time: 2P
Ending 12-12-2024 Time: 2P
Test Species: C. dubia
Age / Source: 24 hrs / lab culture
Dilution Water Used: MHSW

Client: NAC
Beckmar Sample Number _____
Client Contact: _____
NPDES Permit No: _____
Sample Collector: _____
Grab Sample Collected: (1) _____ am/pm; _____ (Date)
(2) _____ am/pm; _____ (Date)

Sample ID	Test Container Number	Number of Live Organisms			Dissolved Oxygen (mg/l) / Temp C		pH		Total Alkalinity (mg/l as CaCO ₃)	Total Hardness (mg/l as CaCO ₃)	Conductivity (umhos/cm)	Total Residual Chlorine (mg/L)
		0	24	48	0	48	0	48				
C	1	5	5	5								
	2			5								
	3			5								
	4			5								
1.5 gm/L	1			5								
	2			5								
	3			5								
	4			5								
2.0 gm/L	1			5								
	2			5								
	3			4								
	4			4								
2.5 gm/L	1			4								
	2			1								
	3			2								
	4			2								
3.0 gm/L	1			3								
	2			2								
	3			1								
	4			1								
3.5 gm/L	1			0								
	2			0								
	3			0								
	4			0								

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the [NPDES eReporting Help Desk](#) for further guidance. Please note that EPA may contact you after you submit this report for more information.

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Permit

Permit #:

KY0106143

Major:

Yes

Permitted Feature:

001
External Outfall

Permittee:

Louisville and Jefferson County MSD

Permittee Address:

700 W Liberty St
Louisville, KY 40203

Discharge:

001-4
Annual Sampling Years 2 - 4

Facility:

OHIO RIVER WWTP

Facility Location:

1901 LANDING RD
GOSHEN, KY 40026

Report Dates & Status

Monitoring Period:

From 01/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Requires a minimum of 3 samples. Annual sampling during years 2 through 4 of the permit term for those parameters required to be analyzed and reported on the application. The permittee shall report the No Discharge (NODI) 9 ? Conditional Monitoring Not Required This Period for years 1 and 5 of the permit.

Principal Executive Officer

First Name:

Tony

Last Name:

Parrott

Title:

Executive Director

Telephone:

502-540-6533

No Data Indicator (NODI)

Form NODI:

--

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00011	Temperature, water deg. fahrenheit	1 - Effluent Gross	0	--	Sample							=	19.35	=	29.7	15 - deg F		03/5Y - Three Every 5 Years	GR - Grab	
					Permit Req.								Req Mon AVERAGE		Req Mon MAXIMUM	15 - deg F				
					Value NODI															
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample							<	5.0	<	5.0	19 - mg/L		03/5Y - Three Every 5 Years	GR - Grab	
					Permit Req.								Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L				
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample							=	4.09	=	4.09	19 - mg/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite	
					Permit Req.								Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L				
					Value NODI															
00722	Cyanide, free [amenable to chlorination]	1 - Effluent Gross	0	--	Sample							<	0.005	<	0.005	19 - mg/L		03/5Y - Three Every 5 Years	GR - Grab	
					Permit Req.								Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L				
					Value NODI															
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0	--	Sample							=	304.5	=	312.0	19 - mg/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite	
					Permit Req.								Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L				
					Value NODI															
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample							<	0.05	<	0.05	19 - mg/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite	
					Permit Req.								Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L				
					Value NODI															
00981	Selenium, total recoverable	1 - Effluent Gross	0	--	Sample							<	0.05	<	0.05	19 - mg/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite	
					Permit Req.								Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L				
					Value NODI															
00982	Thallium, total recoverable	1 - Effluent Gross	0	--	Sample							<	0.05	<	0.05	19 - mg/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite	
					Permit Req.								Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L				
					Value NODI															
00998	Beryllium, total recoverable [as Be]	1 - Effluent Gross	0	--	Sample							<	0.05	<	0.05	19 - mg/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite	
					Permit Req.								Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L				
					Value NODI															
					Sample							<	0.05	<	0.05	19 - mg/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite	

01074	Nickel, total recoverable	1 - Effluent Gross	0	--	Permit Req.										Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
01079	Silver total recoverable	1 - Effluent Gross	0	--	Sample								<	0.004	<	0.004	19 - mg/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample								<	0.05	<	0.05	19 - mg/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample								<	0.01	<	0.01	19 - mg/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample								<	0.05	<	0.05	19 - mg/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
01118	Chromium, total recoverable	1 - Effluent Gross	0	--	Sample								<	0.01	<	0.01	19 - mg/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample								<	0.01	<	0.01	19 - mg/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
01268	Antimony, total recoverable	1 - Effluent Gross	0	--	Sample								<	0.05	<	0.05	19 - mg/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
32101	Dichlorobromomethane	1 - Effluent Gross	0	--	Sample								<	5.0	<	5.0	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
32102	Carbon tetrachloride	1 - Effluent Gross	0	--	Sample								<	5.0	<	5.0	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
32103	1,2-Dichloroethane	1 - Effluent Gross	0	--	Sample								<	5.0	<	5.0	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
32104	Bromoform	1 - Effluent Gross	0	--	Sample								<	5.0	<	5.0	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
32106	Chloroform	1 - Effluent Gross	0	--	Sample								<	5.0	<	5.0	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
34010	Toluene	1 - Effluent Gross	0	--	Sample								<	5.0	<	5.0	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
34030	Benzene	1 - Effluent Gross	0	--	Sample								<	5.0	<	5.0	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
34200	Acenaphthylene	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
34205	Acenaphthene	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
34210	Acrolein	1 - Effluent Gross	0	--	Sample								<	25.0	<	25.0	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
34215	Acrylonitrile	1 - Effluent Gross	0	--	Sample								<	5.0	<	5.0	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																
34220	Anthracene	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L			03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																

34242	Benzo[k]fluoranthene	1 - Effluent Gross	0	--	Sample										<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34247	Benzo[a]pyrene	1 - Effluent Gross	0	--	Sample										<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34273	Bis[2-chloroethyl] ether	1 - Effluent Gross	0	--	Sample										<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34278	Bis[2-chloroethoxy]methane	1 - Effluent Gross	0	--	Sample										<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34283	Bis[2-chloroisopropyl] ether	1 - Effluent Gross	0	--	Sample										<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34292	Butyl benzyl phthalate	1 - Effluent Gross	0	--	Sample										<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34301	Chlorobenzene	1 - Effluent Gross	0	--	Sample										<	5.0	<	5.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34306	Chlorodibromomethane	1 - Effluent Gross	0	--	Sample										<	5.0	<	5.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34320	Chrysene	1 - Effluent Gross	0	--	Sample										<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34336	Diethyl phthalate	1 - Effluent Gross	0	--	Sample										<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34341	Dimethyl phthalate	1 - Effluent Gross	0	--	Sample										<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34346	1,2-Diphenylhydrazine	1 - Effluent Gross	0	--	Sample										<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34371	Ethylbenzene	1 - Effluent Gross	0	--	Sample										<	5.0	<	5.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34376	Fluoranthene	1 - Effluent Gross	0	--	Sample										<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34381	Fluorene	1 - Effluent Gross	0	--	Sample										<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34386	Hexachlorocyclopentadiene	1 - Effluent Gross	0	--	Sample										<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34396	Hexachloroethane	1 - Effluent Gross	0	--	Sample										<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34403	Indeno[1,2,3-cd]pyrene	1 - Effluent Gross	0	--	Sample										<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34408	Isophorone	1 - Effluent Gross	0	--	Sample										<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																
34413	Methyl bromide [Bromomethane]	1 - Effluent Gross	0	--	Sample										<	5.0	<	5.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.											Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI																

34418	Methyl chloride [Chloromethane]	1 - Effluent Gross	0	--	Sample													<	5.0	<	5.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.															Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite	
					Value NODI																						
34423	Methylene chloride	1 - Effluent Gross	0	--	Sample													<	5.0	<	5.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						
34428	N-Nitrosodi-N-propylamine	1 - Effluent Gross	0	--	Sample													<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						
34433	N-Nitrosodiphenylamine	1 - Effluent Gross	0	--	Sample													<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						
34438	N-Nitrosodimethylamine [NDMA]	1 - Effluent Gross	0	--	Sample													<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						
34447	Nitrobenzene	1 - Effluent Gross	0	--	Sample													<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						
34461	Phenanthrene	1 - Effluent Gross	0	--	Sample													<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						
34469	Pyrene	1 - Effluent Gross	0	--	Sample													<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						
34475	Tetrachloroethylene	1 - Effluent Gross	0	--	Sample													<	5.0	<	5.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						
34496	1,1-Dichloroethane	1 - Effluent Gross	0	--	Sample													<	5.0	<	5.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						
34501	1,1-Dichloroethylene	1 - Effluent Gross	0	--	Sample													<	5.0	<	5.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						
34506	1,1,1-Trichloroethane	1 - Effluent Gross	0	--	Sample													<	5.0	<	5.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						
34511	1,1,2-Trichloroethane	1 - Effluent Gross	0	--	Sample													<	5.0	<	5.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						
34516	1,1,2,2-Tetrachloroethane	1 - Effluent Gross	0	--	Sample													<	5.0	<	5.0	19 - mg/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						
34521	Benzo[ghi]perylene	1 - Effluent Gross	0	--	Sample													<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						
34526	Benzo[a]anthracene	1 - Effluent Gross	0	--	Sample													<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						
34536	1,2-Dichlorobenzene	1 - Effluent Gross	0	--	Sample													<	5.0	<	5.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						
34541	1,2-Dichloropropane	1 - Effluent Gross	0	--	Sample													<	5.0	<	5.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						
34546	trans-1,2-Dichloroethylene	1 - Effluent Gross	0	--	Sample													<	5.0	<	5.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						
34551	1,2,4-Trichlorobenzene	1 - Effluent Gross	0	--	Sample													<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite		
					Permit Req.																Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI																						

34556	Dibenz[a,h]anthracene	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34566	1,3-Dichlorobenzene	1 - Effluent Gross	0	--	Sample								<	5.0	<	5.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34571	1,4-Dichlorobenzene	1 - Effluent Gross	0	--	Sample								<	5.0	<	5.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34576	2-Chloroethyl vinyl ether, [mixed]	1 - Effluent Gross	0	--	Sample								<	5.0	<	5.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34581	2-Chloronaphthalene	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34586	2-Chlorophenol	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34591	2-Nitrophenol	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34601	2,4-Dichlorophenol	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34606	2,4-Dimethylphenol	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34611	2,4-Dinitrotoluene	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34616	2,4-Dinitrophenol	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34621	2,4,6-Trichlorophenol	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34626	2,6-Dinitrotoluene	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34631	3,3'-Dichlorobenzidine	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34636	4-Bromophenyl phenyl ether	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34641	4-Chlorophenyl phenyl ether	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34646	4-Nitrophenol	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34657	4,6-Dinitro-o-cresol	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34694	Phenol	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Value NODI															
34696	Naphthalene	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		03/5Y - Three Every 5 Years	24 - 24 Hour Composite

					Value NODI														
39032	Pentachlorophenol	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI														
39100	Di[2-ethylhexyl] phthalate [DEHP]	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI														
39110	Di-n-butyl phthalate	1 - Effluent Gross	0	--	Sample								=	17.7	=	17.7	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI														
39120	Benzidine	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI														
39175	Vinyl chloride	1 - Effluent Gross	0	--	Sample								<	5.0	<	5.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI														
39180	Trichloroethylene	1 - Effluent Gross	0	--	Sample								<	5.0	<	5.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI														
39700	Hexachlorobenzene	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI														
39702	Hexachlorobutadiene	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI														
51449	Nitrogen, Kjeldahl Total	1 - Effluent Gross	0	--	Sample								=	0.619	=	8.0	19 - mg/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L		
					Value NODI														
51450	Nitrite Plus Nitrate Total	1 - Effluent Gross	0	--	Sample								=	38.02	=	64.6	19 - mg/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L		
					Value NODI														
70029	Phenolic compounds, total	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	19 - mg/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L		
					Value NODI														
70296	Solids, total dissolved [TDS]	1 - Effluent Gross	0	--	Sample								=	11.4	=	77.0	19 - mg/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L		
					Value NODI														
71901	Mercury, total recoverable	1 - Effluent Gross	0	--	Sample								<	0.005	<	0.005	19 - mg/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	19 - mg/L		
					Value NODI														
77163	1,3-Dichloropropene	1 - Effluent Gross	0	--	Sample								<	5.0	<	5.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI														
79531	3,4-Benzofluoranthene	1 - Effluent Gross	0	--	Sample								<	5.0	<	5.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI														
82627	p-Chloro-m-cresol	1 - Effluent Gross	0	--	Sample								<	10.0	<	10.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI														
85811	Chloroethane	1 - Effluent Gross	0	--	Sample								<	5.0	<	5.0	28 - ug/L	03/5Y - Three Every 5 Years	24 - 24 Hour Composite
					Permit Req.									Req Mon AVERAGE		Req Mon MAXIMUM	28 - ug/L		
					Value NODI														

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.	
Report Last Saved By	
Louisville and Jefferson County MSD	
User:	ALEX.SMITHER@LOUISVILLEMSD.ORG
Name:	Charles Smither
E-Mail:	alex.smither@louisvillemSD.org
Date/Time:	2025-01-27 12:46 (Time Zone: -05:00)
Report Last Signed By	
User:	ALEX.SMITHER@LOUISVILLEMSD.ORG
Name:	Charles Smither
E-Mail:	alex.smither@louisvillemSD.org
Date/Time:	2025-01-27 12:47 (Time Zone: -05:00)

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Permit

Permit #:
Major:

KY0106143
Yes

Permittee:
Permittee Address:

Louisville and Jefferson County MSD
700 W Liberty St
Louisville, KY 40203

Facility:
Facility Location:

OHIO RIVER WWTP
1901 LANDING RD
GOSHEN, KY 40026

Permitted Feature:

001
External Outfall

Discharge:

001-2
Quarterly Biomonitoring

Report Dates & Status

Monitoring Period:

From 10/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:
Last Name:

Tony
Parrott

Title:

Executive Director

Telephone:

502-540-6533

No Data Indicator (NODI)

Form NODI:

--

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type	
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample										<	1.0	2F - tox acute		01/90 - Quarterly	24 - 24 Hour Composite
					Permit Req.										<=	1.0 MAXIMUM	2F - tox acute		01/90 - Quarterly	24 - 24 Hour Composite
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

Name	Type	Size
ohio_river_bio_rpt_december_2024.pdf	pdf	5296801.0

Report Last Saved By

Louisville and Jefferson County MSD

User:

ALEX.SMITHER@LOUISVILLEMSD.ORG

Name:

Charles Smither

E-Mail:

alex.smither@louisvillemسد.org

Date/Time:

2025-01-27 11:09 (Time Zone: -05:00)

Report Last Signed By

User:

ALEX.SMITHER@LOUISVILLEMSD.ORG

Name:

Charles Smither

E-Mail:

alex.smither@louisvillemسد.org

Date/Time:

2025-01-27 11:09 (Time Zone: -05:00)