Illinois Environmental Protection Agency

Bureau of Water • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control
ANNUAL FACILITY INSPECTION REPORT
for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report.

Report Period: From March, 2018 To March, 2019

Permit No. ILR40 0190

MS4 OPERATOR INFORMATION: (As it appears on the current permit)

Name: CITY OF FAIRVIEW HEIGHTS Mailing Address 1: 10025 BUNKUM ROAD

Mailing Address 2: County: St. Clair

City: FAIRVIEW HEIGHTS State: IL Zip: 62208 Telephone: 618-489-2021

Contact Person: CHRIS VOLKMAN Email Address:
(Person responsible for Annual Report)

Name(s) of governmental entity(ies) in which MS4 is located: (As it appears on the current permit)

ILLINOIS DEPARTMENT OF TRANSPORTATION
ST. CLAIR COUNTY
CANTEEN TOWNSHIP & CASEYVILLE TOWNSHIP
ST. CLAIR TOWNSHIP

THE FOLLOWING ITEMS MUST BE ADDRESSED.

A. Changes to best management practices (check appropriate BMP change(s) and attach information regarding change(s) to BMP and measurable goals.)

1. Public Education and Outreach ☐
2. Public Participation/Involvement ☐
3. Illicit Discharge Detection & Elimination ☐
4. Construction Site Runoff Control ☐
5. Post-Construction Runoff Control ☐
6. Pollution Prevention/Good Housekeeping ☐

B. Attach the status of compliance with permit conditions, an assessment of the appropriateness of your identified best management practices and progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and your identified measurable goals for each of the minimum control measures.

C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

D. Attach a summary of the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule.)

E. Attach notice that you are relying on another government entity to satisfy some of your permit obligations (if applicable).

F. Attach a list of construction projects that your entity has paid for during the reporting period.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Owner Signature: Date: 5/14/2019

CHRIS VOLKMAN, P.E. CITY ENGINEER

Printed Name: Title:

EMAIL COMPLETED FORM TO: epa.ms4annualinsp@illinois.gov

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL
COMPLIANCE ASSURANCE SECTION #19
1021 NORTH GRAND AVENUE EAST
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

ADMINISTRATIVE REVISIONS TO THE NOTICE OF INTENT

Revisions to the original Notice of Intent (NOI) are reflected below.

MS4 Operator Mailing Address: Yes _____ No X

_____

_____

_____

_____

Persons Responsible: Yes _____ No X

Name: _____

Title: _____

Telephone Number: _____

Area of Responsibility: _____

Introduction

In 2003, St. Clair County (County), Illinois and its communities created a Co-Permittee Group to join forces in complying with the National Pollutant Discharge Elimination System (NPDES) for Municipal Separate Storm Sewer Systems (MS4) Phase II requirements. As stated in the original 2003 Notice of Intent (NOI), the County and the Co-Permittee communities were to pool resources and work together to comply with the commitments made within the NOI for the benefit of all within the County.

The Co-Permittee Group was active during this reporting period. Significant progress was made sharing Best Management Practices (BMPs) for document retention, operation procedures, and maintenance activities.

Best Management Practice (BMP) Summary of 2018-2019 Activities

In 2003, each member of the Co-Permittee Group submitted a NOI in compliance with the first 5-year cycle. In 2008, a NOI was submitted in compliance with the next 5-year cycle, as written in the first MS4 permit. The 2009 NOI was submitted in compliance with additional requirements in the second MS4 permit. In 2013, a new NOI was submitted for the next 5-year cycle and was in place starting in March 2014. As stated in the 2003, 2008, 2009, and 2013 NOIs, each Co-Permittee Member identified certain activities to comply with the Phase II requirements. Below is an abbreviated summary of the BMPs that were written in the NOI for each of the minimum control measures.

March 2018-February 2019:

1) **A.1-** Stormwater brochures for businesses, homeowners, children, and green infrastructures were to be promoted and displayed by each community in a public place.

2) **A.4-** St. Clair County sponsored a booth at the County Fair and/or Earth Day and distributed the stormwater and green infrastructure brochures.

3) **A.5-** St. Clair County posted newsletters on the County Health Department website during school months. Co-Permittee Members distributed educational materials to schools in their communities. The amount of material distributed was to be tracked by the communities.

4) **B.3**- The Co-Permittee Group met three (3) times to review upcoming permit requirements, notice of intent, review stormwater management program, operations training, and to develop and submit the Annual Report.

5) **B.5-** Co-Permittee Members solicited and encouraged public assistance in monitoring the community's storm water system. Public inquiries and complaints were responded to and recorded.

6) **B.6-** St. Clair County continued to promote programs related to stormwater activities and recycling programs. The community tracked its participation.

7) **C.1-** Co-Permittee Members updated any new or revised storm sewers and performed stream observations at bridge inspections.

8) **C.5-** A survey of previously installed stencils was to be performed as well as replacing or placing any that needed inlet stencils.

9) **C.6-** Communication brochures were distributed to the community. Co-Permittee Members discussed any known illicit discharge ordinance compliance issues in the communities.

10) **C.9-** Co-Permittee Members developed brochures addressing specific storm water ordinance prohibited activities and distributed with educational brochures.

11) **D.1, E.2, E.4-** Community stormwater ordinances were to be updated, if needed, and require a SWPPP on site plans disturbing more than one acre.

12) **D.2, F.1-** The Co-Permittee held an Operations Training class. Topics included a review of the Best Management Practices, Good Housekeeping, and a review of some of the public awareness BMPs other communities use.

13) **D.5-** St. Clair County continued to maintain a stormwater hotline number to address public concerns related to stormwater issues. County tracked and reported the number of calls.

14) **F.6-** Communities reviewed operating procedures and BMPs and modified if necessary.

The following pages highlight changes made to the BMPs from the NOI, BMP status, and activities planned for the next reporting year. Additional information is also provided from the County and each Community.

It is to be noted that some BMPs will continue on to the next NOI, but some will be stopped, and others added to fulfill the requirements of the permit. The 2014-2019 NOI can be found on the IEPA website.

City of Fairview Heights FOIA Officer for the reporting year:

Name: Cathy Bryant

Title: Clerks Supervisor

Telephone Number: (618) 489-2000

COMMUNITY NAME: *City of Fairview Heights* **PERMIT #:** *ILR400190*

IEPA Annual Report for Stormwater Discharges from MS4 Communities- Period: March 2018 through February 2019

A. Changes to Best Management- Were there any changes to the BMPs?			**B.** The status of compliance with the permit, the appropriateness of the BMP and progress towards achieving reduction of discharged pollutants to the MEP, and identified measurable goals for each of the minimum control measures.	**C.** Provide results of information collected and analyzed, including monitoring data. Information attached?			**D.** Summarize the stormwater activities you plan to undertake with an implementation schedule	
Comment	YES	NO		If attached information, describe.	YES	NO	Activity	Schedule
BMP No. A.1 - Distributed Paper Materials- Informational Brochures								
Milestone For Reporting Year: Promote the availability of brochures to the residents.								
		X	The City has brochures available to residents at the City Hall and the Public Library. One hundred were distributed. Educational topics in the past have included illicit discharge compliance and stormwater ordinances.			X	St. Clair County has updated brochures available to all county residents in the St. Clair County Health Department.	On-going through 2019-2020 permit year.
BMP No. A.4- Community Event- Sponsor Annual Booth at the Earth Day Festival								
Milestone For Reporting Year: St. Clair County sponsored a booth at the Earth Day Celebration.								
		X	St. Clair County sponsored a booth and distributed stormwater materials at the Health Department Earth Day Celebration in April 2018. Approximately 100 stormwater brochures were distributed.			X	St. Clair County is responsible for the booth and tracking the number of brochures handed out.	The 2019 Earth Day event will be in May.
BMP No. A.5- Classroom Education Material								
Milestone For Reporting Year: Communities distributed educational materials and tracked the number of brochures and other materials handed out to the schools.								
		X	St. Clair County posted educational newsletters on the Health Department's Website.	Review of Classroom Education Materials- See page 11	X		The communities will inform local schools that the newsletters are available on the Health Department's Website.	On-going through 2019-2020 permit year.

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Comment	YES	NO		If attached information, describe.	YES	NO	Activity	Schedule
BMP No. B-3- Stakeholder's Meeting- Coordinate Meetings and Annual Reports								
Milestone For Reporting Year: Co-Permittee Group met three (3) times to complete training and to develop and submit the Annual Report.								
		X	Co-Permittee Meetings were held on Feb. 22nd, May 3rd, and October 25th, 2018. Annual reports were provided to communities in May 2018 and submitted to IEPA before June 1st, 2018. Meeting topics included: Annual Reporting, Urban Flood Awareness, and Operations Training. The community did not attend all the meetings but was provided the presentation which was discussed with the employees.			X	The City will continue to meet with the Co-Permittee Group to share BMPs and training opportunities. The Co-Permittee Group has planned three compliance/training activities for 2019.	On-going through 2019-2020 permit year.
BMP No. B-5- Volunteer Monitoring- Solicit and Encourage Public Assistance in Monitoring the Community's Stormwater System & Stormwater Hotline								
Milestone For Reporting Year: Community will work to involve more public assistance in reporting stormwater issues.								
		X	The County updated brochures and its website with the County contact information for the reporting of stormwater issues. Any calls or emails will be recorded and addressed.			X	The community will continue to respond to and record all public complaints of illicit discharge and/or dumping and storm water issues.	On-going through 2019-2020 permit year.
BMP No. B.6- Program Coordination- Participate in programs targeted at public awareness, including: Inlet Stenciling and Recycling								
Milestone for Reporting Year: St. Clair County continued to promote programs related to stormwater activities. Communities tracked participation.								
		X	County will continue to promote programs related to stormwater activities and recycling. Multiple media outlets will be used to communicate with municipalities.	Review of Community Events - See page 11	X		County will continue to promote programs related to stormwater activities. Multiple media outlets will be used to communicate with municipalities.	On-going through 2019-2020 permit year.

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IEPA Annual Report for Stormwater Discharges from MS4 Communities- Period: March 2018 through February 2019

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Comment	YES	NO		If attached information, describe.	YES	NO	Activity	Schedule
BMP No. B.7- Other Public Involvement - the community will provide a public meeting annually for public input into for the MS4 program								
Milestone for Reporting Year: The communities will provide a public meeting annually for public input for the MS4 program.								
		X	The County held a public input meeting regarding the adequacy of the MS4 Program..	Review of Other Public Involvement - See page 11	X		Community will continue to hold a public meeting to solicit public input regarding the adequacy of the MS4 program.	On-going through 2019-2020 permit year.
BMP No. C.1- Storm Sewer Map Preparation								
Milestone for Reporting Year: Co-Permittee member communities reviewed outfall maps and conducted stream observations annually at bridge inspections.								
		X	Co-Permittee communities reviewed their outfall maps for completeness and updated them if necessary. Fairview Heights currently has 100% of outfall locations and names of receiving waters mapped.			X	Communities will begin to update their storm system maps to include modifications to the system.	On-going through 2019-2020 permit year.
BMPs No. C.2, C.9- Regulatory Control Program- Ordinance language for Illicit discharge/public notification								
Milestone for Reporting Year: Communication brochures were distributed to the community.								
		X	St. Clair County distributed brochures at the Earth Day event and has them available at the City Hall. The City did not require updates to ordinances over the reporting year.			X	This BMP will not continue into the next NOI.	
BMP No. C.5- Inlet Stenciling								
Milestone for Reporting Year: Survey condition of inlet stencils.								
		X	Fairview Heights assessed the condition of the stencils. Currently 100% of the inlets are marked. The community currently has 100 stencils in stock.	Review of Illicit Source Removal Procedures - See page 11	X		Communities will survey samples of stencils previously installed, replace ones that need to be replaced, and assure all new inlets are installed with stencils.	On-going through 2019-2020 permit year.

COMMUNITY NAME: *City of Fairview Heights* **PERMIT #:** *ILR400190*

IEPA Annual Report for Stormwater Discharges from MS4 Communities- Period: March 2018 through February 2019

A. Changes to Best Management- Were there any changes to the BMPs?			**B.** The status of compliance with the permit, the appropriateness of the BMP and progress towards achieving reduction of discharged pollutants to the MEP, and identified measurable goals for each of the minimum control measures.	**C.** Provide results of information collected and analyzed, including monitoring data. Information attached?			**D.** Summarize the stormwater activities you plan to undertake with an implementation schedule	
Comment	YES	NO		If attached information, describe.	YES	NO	Activity	Schedule
BMP No. C.6- Program Evaluation and Assessment								
Milestone for Reporting Year: Perform illicit discharge detection and elimination in the Community's stormwater system.								
		X	Communities will perform stream observations during their annual bridge inspections and take appropriate action if any illicit discharge is found.			X	Communities will continnue to perform stream observations and address illicit discharge per the community ordinance.	On-going through 2019-2020 permit year.
BMP No. C.9- Public Notification								
Milestone for Reporting Year: Community will update ordinance brochure.								
		X	Brochures will be updated to address spcific stormwater ordinance prohibited acivities and distributed with brochures addressed in BMP A1.			X	Ordinance brochures will be updated and distributed to the community throughout years 2015-2019	Brochure to be updated in 2019-2020 reporting year.
BMPs No. D.1, E.2, and E.4- Site Plan and Pre-Construction Review Procedures								
Milestone for Reporting Year: Update stormwater ordinance.								
		X	Stormwater ordinance updates were not required this reporting year.			X	This BMP will not continue into the next NOI.	
BMP No. D.1- Regulatory Control Program								
Milestone for Reporting Year: Require SWPPP on all site plans disturbing more than one acre of land inside the Community.								
		X	The community will require SWPPP on sites disturbing over 1 acre and enforce ordinance provisions.			X	The community will continue to require SWPPP on sites disturbing over 1 acre and verify the proper use of sediment and erosion control techniques.	On-going through 2019-2020 permit year.

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A. Changes to Best Management- Were there any changes to the BMPs?			**B.** The status of compliance with the permit, the appropriateness of the BMP and progress towards achieving reduction of discharged pollutants to the MEP, and identified measurable goals for each of the minimum control measures.	**C.** Provide results of information collected and analyzed, including monitoring data. Information attached?			**D.** Summarize the stormwater activities you plan to undertake with an implementation schedule	
Comment	YES	NO		If attached information, describe.	YES	NO	Activity	Schedule
BMP No. D.2- Erosion and Sediment Control BMPs								
Milestone for Reporting Year: Community will participate in BMP training during Annual Operations Training.								
		X	The community participated in BMP training during the Annual Operations Training on October 25, 2018.			X	Community will continue to participate in BMP training.	On-going through 2019-2020 permit year.
BMP No. D.5- Stormwater Hotline								
Milestone for Reporting Year: County continued to maintain a stormwater hotline number to address public concerns related to stormwater issues. County tracked and reported the number of calls.								
		X	St. Clair County received one hotline call during the reporting period. Communities respond to complaints of residents for stormwater related issues.			X	County and Communities will respond to calls and emails for stormwater issues.	On-going through 2019-2020 permit year.
BMPs No. D.6 and E.5- Training for Construction Site Inspectors								
Milestone for Reporting Year: Inspector training was not provided this year.								
		X	Construction Site Inpsector Training was not needed.			X	The last Construction Site Inpection training took place in April 2017. This BMP will not continue into the next NOI.	
BMP No. E.2- Regulatory Control Program								
Milestone for Reporting Year: Enforce Stormwater Ordinance.								
		X	Communities will continue to enforce their stormwater ordinance and track changes made to the ordinance.			X	Communities will continue to enforce their stormwater ordinance.	On-going through 2019-2020 permit year.

COMMUNITY NAME: *City of Fairview Heights* **PERMIT #:** *ILR400190*

IEPA Annual Report for Stormwater Discharges from MS4 Communities- Period: March 2018 through February 2019

A. Changes to Best Management- Were there any changes to the BMPs?			**B.** The status of compliance with the permit, the appropriateness of the BMP and progress towards achieving reduction of discharged pollutants to the MEP, and identified measurable goals for each of the minimum control measures.	**C.** Provide results of information collected and analyzed, including monitoring data. Information attached?			**D.** Summarize the stormwater activities you plan to undertake with an implementation schedule	
Comment	YES	NO		If attached information, describe.	YES	NO	Activity	Schedule
BMP No. E.4- Pre-Construction Review of BMP Designs								
Milestone for Reporting Year: Review post construction BMPs.								
		X	The community will require and review SWPPPs on site plans disturbing more than one (1) acre of land.			X	Communities will review the post construction BMPs on all sites that disturb more than one acre in land.	On-going through 2019-2020 permit year.
BMP No. F.1- Employee Training Program								
Milestone for Reporting Year: The Co-Permittee held an Operations Training class.								
		X	Training focused on a review of the Best Management Practices, Good Housekeeping, and the Storm Water Management Plan. The City of Fairview Heights attended operations training. Green infrastructure ideas and practices were discussed at other Co-Permittee meetings and in monthly newsletters distributed to community representatives.			X	The Co-Permittee Group will continue holding an Operations Training class as part of education requirements.	On-going through 2019-2020 permit year.
BMP No. F.6- Other Municipal Operations Controls- Standard Operating Procedures								
Milestone for Reporting Year: Communities reviewed operating procedures and BMPs and modified if necessary.								
		X	Stormwater operation procedures for the street department were reviewed and modified in April 2018.			X	Operation procedures are reviewed annually. Co-Permittee meetings will include reference to review and update requirements.	On-going through 2019-2020 permit year.

COMMUNITY NAME: *City of Fairview Heights* **PERMIT #:** *ILR400190*

IEPA Annual Report for Stormwater Discharges from MS4 Communities- Period: March 2018 through February 2019

ADDITIONAL INFORMATION

BMP A.5	**Classroom Educational Materials**
	The County has taken steps to educate school children on the severity of stormwater pollution. The St. Clair County Health Department issues a newsletter each month and it is posted on the St. Clair County Health Department's website. The newsletter consists of articles for students with a wide range of pollution topics, including stormwater. The newsletter also lists upcoming recycling events and schools that have won past recycling contests.

BMP B.6	**Community Events - Recycling Programs**
	Throughout the year, St. Clair County sponsored community events that potentially could positively impact stormwater quality. These activities include telephone book recycling and an ongoing "Clean Sweep" program. Telephone book recycling was sponsored by Illinois American Water. The county website also has a brochure listing recycling sites for over 29 different materials. Fairview Heights provides Christmas tree recycling for its community members.

BMP B.7	**Other Public Involvement**
	St. Clair County held a public meeting to provide for public input regarding the adequacy of the MS4 program. The public is encouraged to assist in monitoring the community's storm water system by reporting illegal dumping and discharge or storm water issues either directly to the City or through the County. The St. Clair County storm water hotline number is posted on its website and is provided in educational brochures.

BMP C.5	**Illicit Source Removal Procedures**
	The St. Clair County Highway Department sponsors an Adopt-a-Highway Program throughout the County. By sponsoring this program, St. Clair County is eliminating a significant source of stormwater pollution by keeping trash out of streams and keeping road ditches clear of debris for storm events.

ADDITIONAL COMMUNITY ACTIVITIES

(Make additional copies of form, as necessary)

Community Name: City of Fairview Heights Permit #: ILR400190

List any additional community-sponsored activities performed between March 2018 and February 2019 not listed in *Notice of Intent (NOI)* submittal, but which addresses one of the six minimum control measures:

One 40-cubic yard dumpster was used by the City for trash retrieved from road ditches and waterways. The dumpster was emptied monthly.

Forty-eight (48) catch basins were cleaned since March 2018.

Street sweeping was performed for 1380 hours and collected approximately 140,000 pounds of debris.

A total of 5 miles were graded along Holy Cross Rd., Baldus, Cliff, Pleasant View, 2nd St., South, Autumn, MaryAnn, Roselawn, Leo, Annex, Lynwood, and Pleasant Ridge. The BMPs used included straw mats, riprap, silt fence, and hydroseeding. Five miles of ditches were cleaned removing two truckloads of trash and five truckloads of limbs.

The City of Fairview Heights Public Works sponsored three city-wide bulk trash pickups during the year, collecting thirty-one 40-cubic yard dumpsters of waste. The City also provides year-round recycling through Phoenix Recycling, including Christmas trees.

Fairview Heights cleaned one mile of Ogles Creek and Little Canteen Creek over five days gathering one truckload of trash, 100 pounds of tires, and three truckloads of limbs.

The City is developing a process to assess the water quality impacts of flood management projects affecting the municipality.

Circle which minimum control measure addressed:

1. Public Education and Outreach
2. Public Participation/Involvement
3. Illicit Discharge Detection & Elimination
4. Construction Site Runoff Control
5. Post-Construction Runoff Control
6. Pollution Prevention/Good Housekeeping

C. Information Collected and Analyzed during 2018-2019 Reporting Year

The NPDES permit effective March 1, 2016, requires MS4 permittees serving populations over 25,000 persons to conduct quarterly laboratory testing of storm water discharge. St. Clair County, the City of O'Fallon, O'Fallon Township, Fairview Heights, and Caseyville Township banded together to share sampling costs and data. The partnership began storm water sampling during the first quarter of 2017. The samples were taken to a local accredited laboratory and tested for Fecal Coliform, Oil & Grease, Total Nitrogen, Total Phosphorous, Total Suspended Solids, and Chloride. The laboratory returned a reporting package that contains laboratory results and chain of custody forms in addition to standard report contents.

The partnership identified two locations for sampling each quarter within 48 hours of a ¼ inch or greater rainfall event in a 24-hour period. If a sample cannot be taken during the quarter, an explanation will be provided. The storm water monitoring program will help evaluate the effectiveness of BMPs implemented to reduce pollutant loadings and water quality impacts. When trends in the data are identified, BMPs can be adjusted accordingly.

The laboratory reporting forms and information collected are attached. Sampling outfall locations for the upcoming reporting year will be:

- Ogles Creek at Old Collinsville Rd (northeast side of creek) – ID Upstream Approximate coordinates 89° 57' 58.19" W 38° 35' 49.50" N
- Ogles Creek at Scott Troy Rd (northeast side of creek) – ID Downstream Approximate coordinates 89° 52' 28.29" W 38° 38' 59.50" N

E. Reliance on Government Entities for Permit Obligations

Co-Permittee cooperation with the County

F. List of Construction Projects during 2018-2019 Reporting Year

The City had no public construction projects during the reporting year.

March 01, 2018

Jennifer Gerwitz
RJN Group
2000 South 8th St.
St. Louis, MO 63104
TEL: (314) 588-9764
FAX:

RE: NPDES/15-3069 SCC **WorkOrder:** 18021191

Dear Jennifer Gerwitz:

TEKLAB, INC received 2 samples on 2/20/2018 11:30:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Marvin L. Darling II

Marvin L. Darling
Project Manager
(618)344-1004 ex 41
mdarling@teklabinc.com

Report Contents

Client: RJN Group
Client Project: NPDES/15-3069 SCC

Work Order: 18021191
Report Date: 01-Mar-18

This reporting package includes the following:

Client: RJN Group **Work Order:** 18021191

Client Project: NPDES/15-3069 SCC **Report Date:** 01-Mar-18

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
DNI	Did not ignite
DUP	Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Qualifiers

# -	Unknown hydrocarbon	B -	Analyte detected in associated Method Blank
E -	Value above quantitation range	H -	Holding times exceeded
I -	Associated internal standard was outside method criteria	M -	Manual Integration used to determine area response
ND -	Not Detected at the Reporting Limit	R -	RPD outside accepted recovery limits
S -	Spike Recovery outside recovery limits	T -	TIC(Tentatively identified compound)
X -	Value exceeds Maximum Contaminant Level		

Case Narrative

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069 SCC

Work Order: 18021191
Report Date: 01-Mar-18

Cooler Receipt Temp: 15.82 °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: RJN Group **Work Order:** 18021191

Client Project: NPDES/15-3069 SCC **Report Date:** 01-Mar-18

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2019	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2018	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2018	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2018	Collinsville
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2018	Collinsville
Arkansas	ADEQ	88-0966		3/14/2018	Collinsville
Illinois	IDPH	17584		5/31/2019	Collinsville
Indiana	ISDH	C-IL-06		1/31/2019	Collinsville
Kentucky	KDEP	98006		12/31/2018	Collinsville
Kentucky	UST	0073		1/31/2019	Collinsville
Louisiana	LDPH	LA170027		12/31/2018	Collinsville
Missouri	MDNR	930		1/31/2019	Collinsville
Missouri	MDNR	00930		5/31/2019	Collinsville
Oklahoma	ODEQ	9978		8/31/2018	Collinsville
Tennessee	TDEC	04905		1/31/2019	Collinsville

Client: RJN Group
Work Order: 18021191
Client Project: NPDES/15-3069 SCC
Report Date: 01-Mar-18
Lab ID: 18021191-001
Client Sample ID: Upstream
Matrix: AQUEOUS
Collection Date: 02/20/2018 10:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 22ND ED. 9222 D MEMBRANE FILTER								
Fecal Coliform	*	100		**3100**	CFU/100ml	100	02/20/2018 13:16	R243764
EPA 1664A								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	02/21/2018 13:40	R243818
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total	*	0.05		**1.14**	mg/L	1	02/28/2018 0:00	R244064
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.050		**0.222**	mg/L	1	02/28/2018 10:21	139469
STANDARD METHODS 2540 D 1997								
Total Suspended Solids	NELAP	6		**123**	mg/L	1	02/22/2018 13:16	R243843
STANDARD METHODS 4500-CL E (TOTAL) 1997								
Chloride	NELAP	10		**86**	mg/L	2	02/26/2018 15:21	R244103

Client: RJN Group
Work Order: 18021191
Client Project: NPDES/15-3069 SCC
Report Date: 01-Mar-18
Lab ID: 18021191-002
Client Sample ID: Downstream
Matrix: AQUEOUS
Collection Date: 02/20/2018 10:58

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 22ND ED. 9222 D MEMBRANE FILTER								
Fecal Coliform	*	100		**1300**	CFU/100ml	100	02/20/2018 13:18	R243764
EPA 1664A								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	02/21/2018 13:40	R243818
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total	*	0.05		**2.18**	mg/L	1	02/28/2018 0:00	R244064
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.050		**0.286**	mg/L	1	02/28/2018 10:23	139469
STANDARD METHODS 2540 D 1997								
Total Suspended Solids	NELAP	6		**42**	mg/L	1	02/22/2018 13:16	R243843
STANDARD METHODS 4500-CL E (TOTAL) 1997								
Chloride	NELAP	25		**105**	mg/L	5	02/27/2018 13:11	R244077

Receiving Check List

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069 SCC

Work Order: 18021191
Report Date: 01-Mar-18

Carrier: Employee

Received By: KF

Completed by: Amber M. Dilallo
On: 20-Feb-18

Reviewed by: Elizabeth A. Hurley
On: 20-Feb-18

Pages to follow: Chain of custody 1 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	15.82
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑		
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐			

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

CHAIN OF CUSTODY

pg. ____ of ____ Work order # 18021191

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	RJN Group
Address:	2000 South 8th St.
City / State / Zip	St. Louis, MO 63104
Contact:	Jennifer Gerwitz
Phone:	(314) 588-9764
E-Mail:	jgerwitz@rjnmail.com
Fax:	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 15.82 °C

Preserved in: ☐ LAB ☑ FIELD

Lab Notes: emm 2/20/18

FOR LAB USE ONLY

Client Comments

rainfall 0.40 in

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Project Name/Number	Sample Collector's Name
NPDES/15-3069 SCC	

Results Requested

☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	H2SO4	MATRIX: Aqueous	Chloride	Fecal Coliform	Oil and Grease	Phosphorus	Total Nitrogen	TSS
18021191-001	Upstream	02/20/18 10:30	2	2	X	X	X	X	X	X	X
002	Downstream	02/20/18 10:58	2	2	X	X	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
Sanjiv Vijayan	02/20/18 / 11:30	K Keck	2/20/18 1130

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 41389

emm 2/20/18

May 15, 2018

Jennifer Gerwitz
RJN Group
2000 South 8th St.
St. Louis, MO 63104
TEL: (314) 588-9764
FAX:

RE: NPDES/15-3069 **WorkOrder:** 18050329

Dear Jennifer Gerwitz:

TEKLAB, INC received 2 samples on 5/4/2018 9:50:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Marvin L. Darling II

Marvin L. Darling
Project Manager
(618)344-1004 ex 41
mdarling@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069

Work Order: 18050329
Report Date: 15-May-18

This reporting package includes the following:

Client: RJN Group **Work Order:** 18050329

Client Project: NPDES/15-3069 **Report Date:** 15-May-18

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Qualifiers

# -	Unknown hydrocarbon	B -	Analyte detected in associated Method Blank
C -	RL shown is a Client Requested Quantitation Limit	E -	Value above quantitation range
H -	Holding times exceeded	I -	Associated internal standard was outside method criteria
M -	Manual Integration used to determine area response	ND -	Not Detected at the Reporting Limit
R -	RPD outside accepted recovery limits	S -	Spike Recovery outside recovery limits
T -	TIC(Tentatively identified compound)	X -	Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069

Work Order: 18050329
Report Date: 15-May-18

Cooler Receipt Temp: 10.22 °C

Per Jennifer Gerwitz, proceed with Fecal Coliform with the weekend surcharge (Friday receipt). EAH 5/4/18

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: RJN Group **Work Order:** 18050329

Client Project: NPDES/15-3069 **Report Date:** 15-May-18

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2019	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2019	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2018	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2018	Collinsville
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2018	Collinsville
Arkansas	ADEQ	88-0966		3/14/2019	Collinsville
Illinois	IDPH	17584		5/31/2019	Collinsville
Indiana	ISDH	C-IL-06		1/31/2019	Collinsville
Kentucky	KDEP	98006		12/31/2018	Collinsville
Kentucky	UST	0073		1/31/2019	Collinsville
Louisiana	LDPH	LA170027		12/31/2018	Collinsville
Missouri	MDNR	930		1/31/2019	Collinsville
Missouri	MDNR	00930		5/31/2019	Collinsville
Oklahoma	ODEQ	9978		8/31/2018	Collinsville
Tennessee	TDEC	04905		1/31/2019	Collinsville

Client: RJN Group
Work Order: 18050329
Client Project: NPDES/15-3069
Report Date: 15-May-18
Lab ID: 18050329-001
Client Sample ID: Upstream
Matrix: AQUEOUS
Collection Date: 05/04/2018 8:58

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 22ND ED. 9222 D MEMBRANE FILTER								
Fecal Coliform	*	10		**570**	CFU/100ml	10	05/04/2018 13:05	R246753
EPA 1664A								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	05/09/2018 11:33	R246916
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total	*	1.05		**< 1.05**	mg/L	1	05/10/2018 0:00	R246921
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.100		**< 0.100**	mg/L	1	05/09/2018 11:21	141666
STANDARD METHODS 2540 D 1997								
Total Suspended Solids	NELAP	6		**< 6**	mg/L	1	05/04/2018 14:37	R246759
STANDARD METHODS 4500-CL E (TOTAL) 1997								
Chloride	NELAP	25		**130**	mg/L	5	05/11/2018 12:45	R247091

Client: RJN Group
Work Order: 18050329
Client Project: NPDES/15-3069
Report Date: 15-May-18
Lab ID: 18050329-002
Client Sample ID: Downstream
Matrix: AQUEOUS
Collection Date: 05/04/2018 9:26

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 22ND ED. 9222 D MEMBRANE FILTER								
Fecal Coliform	*	100		**500**	CFU/100ml	100	05/04/2018 13:05	R246753
EPA 1664A								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	05/09/2018 11:33	R246916
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total	*	1.05		**2.59**	mg/L	1	05/10/2018 0:00	R246921
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.100		**0.189**	mg/L	1	05/09/2018 11:23	141666
STANDARD METHODS 2540 D 1997								
Total Suspended Solids	NELAP	6		**15**	mg/L	1	05/04/2018 14:37	R246759
STANDARD METHODS 4500-CL E (TOTAL) 1997								
Chloride	NELAP	5		**43**	mg/L	1	05/11/2018 12:47	R247091

Receiving Check List

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069

Work Order: 18050329
Report Date: 15-May-18

Carrier: Kevin Madden

Completed by: Elizabeth A. Hurley
On: 04-May-18

Received By: AMD

Reviewed by: Marvin L. Darling
On: 04-May-18

Pages to follow: Chain of custody 1 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	10.22
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑		
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐			

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

CHAIN OF CUSTODY

pg. ____ of ____ Work order # 1805032 9

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	RJN Group
Address:	2000 South 8th St.
City / State / Zip	St. Louis, MO 63104
Contact:	Jennifer Gerwitz **Phone:** (314) 588-9764
E-Mail:	jgerwitz@rjnmail.com **Fax:**

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 10.20 °C

Preserved in: ☐ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes: DM 5/4/18

Per Kevin Madden, Cancel Fecal analysis. DM 5/4/18

Client Comments

rainfall .83 in. on 5/3/18

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Project Name/Number	Sample Collector's Name
NPDES/15-3069	

Results Requested

☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	H2SO4	MATRIX: Aqueous	Chloride	Fecal Coliform	Oil and Grease	Phosphorus	Total Nitrogen	TSS
1805032 9-001	Upstream	8:30AM 5/4/18	2	2	X	X	X	X	X	X	X
002	Downstream	9:26AM 5/4/18	2	2	X	X	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
Kevin Madden	9:50AM 5/4/18		
Anthony Vitale	9:50AM 5/4/18	[illegible]	5/4/18 950

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 42821

DM 5/4/18

August 03, 2018

Jennifer Gerwitz
RJN Group
2000 South 8th St.
St. Louis, MO 63104
TEL: (314) 588-9764
FAX:

RE: NPDES/15-3069 **WorkOrder:** 18071801

Dear Jennifer Gerwitz:

TEKLAB, INC received 2 samples on 7/30/2018 2:28:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Marvin L. Darling II

Marvin L. Darling
Project Manager
(618)344-1004 ex 41
mdarling@teklabinc.com

Report Contents

Client: RJN Group
Client Project: NPDES/15-3069

Work Order: 18071801
Report Date: 03-Aug-18

This reporting package includes the following:

Client: RJN Group **Work Order:** 18071801

Client Project: NPDES/15-3069 **Report Date:** 03-Aug-18

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Qualifiers

# -	Unknown hydrocarbon	B -	Analyte detected in associated Method Blank
C -	RL shown is a Client Requested Quantitation Limit	E -	Value above quantitation range
H -	Holding times exceeded	I -	Associated internal standard was outside method criteria
M -	Manual Integration used to determine area response	ND -	Not Detected at the Reporting Limit
R -	RPD outside accepted recovery limits	S -	Spike Recovery outside recovery limits
T -	TIC(Tentatively identified compound)	X -	Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069

Work Order: 18071801
Report Date: 03-Aug-18

Cooler Receipt Temp: 14.82 °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: RJN Group **Work Order:** 18071801

Client Project: NPDES/15-3069 **Report Date:** 03-Aug-18

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2019	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2019	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2019	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2019	Collinsville
Arkansas	ADEQ	88-0966		3/14/2019	Collinsville
Illinois	IDPH	17584		5/31/2019	Collinsville
Indiana	ISDH	C-IL-06		1/31/2019	Collinsville
Kentucky	KDEP	98006		12/31/2018	Collinsville
Kentucky	UST	0073		1/31/2019	Collinsville
Louisiana	LDPH	LA170027		12/31/2018	Collinsville
Missouri	MDNR	930		1/31/2019	Collinsville
Missouri	MDNR	00930		5/31/2019	Collinsville
Oklahoma	ODEQ	9978		8/31/2018	Collinsville
Tennessee	TDEC	04905		1/31/2019	Collinsville

Client: RJN Group
Work Order: 18071801
Client Project: NPDES/15-3069
Report Date: 03-Aug-18
Lab ID: 18071801-001
Client Sample ID: Upstream
Matrix: AQUEOUS
Collection Date: 07/30/2018 13:38

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 22ND ED. 9222 D MEMBRANE FILTER								
Fecal Coliform	*	100		**CG**	CFU/100ml	100	07/30/2018 15:30	R250255
CG-continuous growth that covers the whole or part of the filtration area on membrane filter which makes colonies indistinguishable								
EPA 1664A								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	07/31/2018 14:15	R250304
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total	*	1.05		**< 1.05**	mg/L	1	08/02/2018 0:00	R250422
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.100		**0.133**	mg/L	1	08/02/2018 13:33	144418
STANDARD METHODS 2540 D 1997								
Total Suspended Solids	NELAP	6	R	**9**	mg/L	1	07/31/2018 14:20	R250261
Sample and Duplicate RPD meet the SOP QC criteria for low level results. Data is reportable.								
STANDARD METHODS 4500-CL E (TOTAL) 1997								
Chloride	NELAP	5		**40**	mg/L	1	08/01/2018 13:09	R250396

Client: RJN Group
Work Order: 18071801
Client Project: NPDES/15-3069
Report Date: 03-Aug-18
Lab ID: 18071801-002
Client Sample ID: Downstream
Matrix: AQUEOUS
Collection Date: 07/30/2018 14:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 22ND ED. 9222 D MEMBRANE FILTER								
Fecal Coliform	*	100		**CG**	CFU/100ml	100	07/30/2018 15:30	R250255
CG-continuous growth that covers the whole or part of the filtration area on membrane filter which makes colonies indistinguishable								
EPA 1664A								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	07/31/2018 14:15	R250304
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total	*	1.05		**1.86**	mg/L	1	08/02/2018 0:00	R250422
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.500		**0.570**	mg/L	1	08/02/2018 13:36	144418
STANDARD METHODS 2540 D 1997								
Total Suspended Solids	NELAP	15		**251**	mg/L	2.44	08/01/2018 10:48	R250327
STANDARD METHODS 4500-CL E (TOTAL) 1997								
Chloride	NELAP	5		**9**	mg/L	1	08/01/2018 13:17	R250396

Receiving Check List

Teklab, Inc. Environmental Laboratory

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069

Work Order: 18071801
Report Date: 03-Aug-18

Carrier: Employee

Completed by: Nathan Harer
On: 30-Jul-18

Received By: NH

Reviewed by: Elizabeth A. Hurley
On: 30-Jul-18

Pages to follow: Chain of custody 1 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 14.82
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

St. Clair County

CHAIN OF CUSTODY

pg. ____ of ____ Work order # 1807180 1

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	RJN Group		
Address:	2000 South 8th St.		
City / State / Zip	St. Louis, MO 63104		
Contact:	Jennifer Gerwitz	**Phone:**	(314) 588-9764
E-Mail:	jgerwitz@rjnmail.com	**Fax:**	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 14.8 °C

Preserved in: ☐ LAB ☒ FIELD BV 7/30/18 **FOR LAB USE ONLY**

Lab Notes:

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Client Comments

Rainfall 0.44 7/29/18

Project Name/Number	Sample Collector's Name
NPDES/15-3069	

Results Requested

☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	H2SO4	MATRIX: Aqueous	INDICATE ANALYSIS REQUESTED: Chloride	Fecal Coliform	Oil and Grease	Phosphorus	Total Nitrogen	TSS
1807180-001	Upstream	7/30/18 1:38pm	2	2	X	X	X	X	X	X	X
-002	Downstream	7/30/18 2:04pm	2	2	X	X	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
Anthony Wade	7/30/18 2:28 pm		
[signature]	7/30/18 2:28 pm	[signature]	7/30/18 1428

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 44524

BV 7/30/18

November 09, 2018

Jennifer Gerwitz
RJN Group
2000 South 8th St.
St. Louis, MO 63104
TEL: (314) 588-9764
FAX:

RE: NPDES/15-3069 **WorkOrder:** 18110024

Dear Jennifer Gerwitz:

TEKLAB, INC received 2 samples on 11/1/2018 11:15:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Marvin L. Darling II

Marvin L. Darling
Project Manager
(618)344-1004 ex 41
mdarling@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069

Work Order: 18110024
Report Date: 09-Nov-2018

This reporting package includes the following:

Client: RJN Group **Work Order:** 18110024

Client Project: NPDES/15-3069 **Report Date:** 09-Nov-2018

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Qualifiers

# -	Unknown hydrocarbon
B -	Analyte detected in associated Method Blank
C -	RL shown is a Client Requested Quantitation Limit
E -	Value above quantitation range
H -	Holding times exceeded
I -	Associated internal standard was outside method criteria
J -	Analyte detected below quantitation limits
M -	Manual Integration used to determine area response
ND -	Not Detected at the Reporting Limit
R -	RPD outside accepted recovery limits
S -	Spike Recovery outside recovery limits
T -	TIC(Tentatively identified compound)
X -	Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069

Work Order: 18110024
Report Date: 09-Nov-2018

Cooler Receipt Temp: 7.22 °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: RJN Group **Work Order:** 18110024

Client Project: NPDES/15-3069 **Report Date:** 09-Nov-2018

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2019	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2019	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2019	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2019	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2019	Collinsville
Arkansas	ADEQ	88-0966		3/14/2019	Collinsville
Illinois	IDPH	17584		5/31/2019	Collinsville
Indiana	ISDH	C-IL-06		1/31/2019	Collinsville
Kentucky	KDEP	98006		12/31/2018	Collinsville
Kentucky	UST	0073		1/31/2019	Collinsville
Louisiana	LDPH	LA170027		12/31/2018	Collinsville
Missouri	MDNR	930		1/31/2019	Collinsville
Missouri	MDNR	00930		5/31/2019	Collinsville
Tennessee	TDEC	04905		1/31/2019	Collinsville

Client: RJN Group
Work Order: 18110024
Client Project: NPDES/15-3069
Report Date: 09-Nov-2018
Lab ID: 18110024-001
Client Sample ID: Upstream
Matrix: AQUEOUS
Collection Date: 11/01/2018 9:51

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 22ND ED. 9222 D MEMBRANE FILTER								
Fecal Coliform	*	100		**3500**	CFU/100ml	100	11/01/2018 13:30	R254196
EPA 1664A								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	11/02/2018 10:35	R254176
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total	*	1.05		**< 1.05**	mg/L	1	11/08/2018 0:00	R254443
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.100		**< 0.100**	mg/L	1	11/06/2018 12:21	147451
STANDARD METHODS 2540 D 1997								
Total Suspended Solids	NELAP	6		**< 6**	mg/L	1	11/02/2018 13:30	R254217
STANDARD METHODS 4500-CL E (TOTAL) 1997								
Chloride	NELAP	5		**25**	mg/L	1	11/07/2018 17:18	R254454

Client: RJN Group
Work Order: 18110024
Client Project: NPDES/15-3069
Report Date: 09-Nov-2018
Lab ID: 18110024-002
Client Sample ID: Downstream
Matrix: AQUEOUS
Collection Date: 11/01/2018 10:47

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 22ND ED. 9222 D MEMBRANE FILTER								
Fecal Coliform	*	100		**4100**	CFU/100ml	100	11/01/2018 13:30	R254196
EPA 1664A								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	11/02/2018 10:35	R254176
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total	*	1.05		**4.00**	mg/L	1	11/08/2018 0:00	R254443
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.500		**1.07**	mg/L	1	11/07/2018 11:28	147485
STANDARD METHODS 2540 D 1997								
Total Suspended Solids	NELAP	6		**128**	mg/L	1	11/02/2018 13:30	R254217
STANDARD METHODS 4500-CL E (TOTAL) 1997								
Chloride	NELAP	5		**50**	mg/L	1	11/07/2018 17:26	R254454

Receiving Check List

Teklab, Inc. Environmental Laboratory

http://www.teklabinc.com/

Client: RJN Group
Client Project: NPDES/15-3069

Work Order: 18110024
Report Date: 09-Nov-2018

Carrier: Employee

Completed by: Marvin L. Darling II
On: 01-Nov-2018
Marvin L. Darling

Received By: BV

Reviewed by: Elizabeth A. Hurley
On: 01-Nov-2018
Elizabeth A. Hurley

Pages to follow: Chain of custody 1 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 7.22
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

CHAIN OF CUSTODY pg. ___ of ___ Work order # 18110024

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	RJN Group		
Address:	2000 South 8th St.		
City / State / Zip	St. Louis, MO 63104		
Contact:	Jennifer Gerwitz	**Phone:**	(314) 588-9764
E-Mail:	jgerwitz@rjnmail.com	**Fax:**	

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE 7.22 °C

Preserved in: ☒ LAB ☒ FIELD MEK 11/1/18

FOR LAB USE ONLY

Lab Notes:

Client Comments

rainfall 0.52 in. on 10/31 per CoCoRaHS

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number	Sample Collector's Name
NPDES/15-3069	

Results Requested

☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ___ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	H2SO4	MATRIX: Aqueous	Chloride	Fecal Coliform	Oil and Grease	Phosphorus	Total Nitrogen	TSS
18110024-001	Upstream	11/1/18 9:51 AM	2	2	X	X	X	X	X	X	X
002	Downstream	11/1/18 10:47 AM	2	2	X	X	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
	11/1/18 11:15 AM		11/1/18 11:15
	11/1/18 1:11:15 AM		

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 46245

MEK