

City of Rock Island
Annual Facility Inspection Report for NPDES Permit
for Storm Water Discharges from MS4
NPDES Permit No. ILR400432
Report Period: March 1st, 2019 – March 1st, 2020



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, 2019 To March, 2020

Permit No. ILR40 0432

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

Name: City of Rock Island Mailing Address 1: 1528 3rd Ave
Mailing Address 2: _____ County: _____
City: Rock Island State: IL Zip: 61201 Telephone: 309-732-2910
Contact Person: Andy Parer Email Address: parer.andrew@rigov.org
(Person responsible for Annual Report)

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

City of Rock Island

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 | <input type="checkbox"/> | 4. Construction Site Runoff Control | <input type="checkbox"/> |
| 2. Public Participation/Involvement | <input type="checkbox"/> | 5. Post-Construction Runoff Control | <input type="checkbox"/> |
| 3. Illicit Discharge Detection & Elimination | <input type="checkbox"/> | 6. Pollution Prevention/Good Housekeeping | <input type="checkbox"/> |

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:
Randall D. Tweet
Printed Name:

5/26/20
Date:
City Manager
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

IL 532 2585 WPC 691 Rev 6/10 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.

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
Municipal Annual Inspection Report
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

RE: NPDES Permit No. ILR400432 Annual Report for 2019-2020

To Whom It May Concern:

Please find the enclosed annual report for the City of Rock Island's NPDES Phase II permit compliance. We are constantly reviewing our stormwater program and looking for ways to improve its effectiveness. We hope that the provided report and additional documents will show our compliance and commitment and to the NPDES program.

Please let me if there are any questions or concerns at (309) 732-2275.

Sincerely,

Andy Parer
City of Rock Island
Stormwater Technician

Section 1: The 6 Minimum Control Measures

We currently possess and enforce and storm water management program that meets all of the requirements of our NPDES permit.

1. Public Outreach and Education

- The City of Rock Island has multiple handouts that are distributed to the public on a regular basis to educate about the impacts of storm water discharges and all related activities. This information includes proper hazardous waste disposal, maintaining private drainage channels, how to report illegal dumping, and a variety of other topics. All the information can be found at our website at <http://rigov.org/114/Stormwater-Management>
- The City of Rock Island uses social media to inform the public of everyday activities that can violate our stormwater ordinance, and the negative effects these activities have on the surrounding environment. We will continue to use this platform as an effective tool for communicating with our residents. Our Facebook page is located at <https://www.facebook.com/rockislandil/>
- Staff member regularly volunteer to speak at local events that pertain to environmental issues to promote our knowledge and the related programs that are offered through our Community and Economic Development Department. We offer two programs that can assist in the environmental goals of private residents and are very popular. These programs are:
 - The Rain Gardens for Rock Island Program
 - 8 private gardens were installed in this reporting period totaling over 6,140 sq ft.
 - The City of RI contributed \$16,546.25 to this program
 - Program information located at <http://rigov.org/documentcenter/view/1298>
 - The Rock Island Drainage Assistance Program
 - 8 private drainage problems which included addressing surface erosion and retaining stormwater.
 - The City of RI contributed \$22,387.48 to this program
 - Program information located at <http://rigov.org/DocumentCenter/View/997>

We will continue to educate the public at every opportunity we are given. We will continually promote the environmental programs we offer to increase the number of rain gardens and to reduce erosion and sediment loss every chance we get.

2. Public Involvement and Participation

- We comply will all State and local public notice requirements when implementing our public involvement/participation programs.

3. Illicit Discharge Detection and Elimination

- All outfalls and discharge points within the city limits of Rock Island are inspected annually during dry weather for illicit discharges. We use updated maps that have detailed attribute tables, along with our own water quality testing facilities. All discharges that are determined to contain any type of contaminate are investigated and resolved. Any outfall that is in disrepair is noted and our Utility Department is notified.
- Information is constantly being distributed in regards to the effects of illicit/illegal discharges via pamphlets, pages from the stormwater ordinance, social media, or site visits.
- The 2019 dry weather sampling event results are located on page 5

We will continue to update our GIS system to ensure we are working with the most accurate date possible. We will continue to monitor all discharge points within the City of Rock Island annually, and be vigilant for all other illicit discharge sources.

2019 Dry Weather Outfall Monitoring

Throughout the year of 2019 the City of Rock Island conducted its annual dry weather outfall monitoring event. All outfalls within city limits directly adjacent to the Rock River and Mississippi River were inspected for flow after 72 hours of a precipitation event. Any flow coming out of the pipe that could not be identified in the immediate vicinity (such as groundwater, springs, or any other allowable discharge) was collected and turned over to the Rock Island sewer treatment plant for further analysis.

In total, 7 sites were found to have dry weather discharge and the results are listed below. From the test results it was determined that the water coming from these sources posed no environmental threat or negative impact.

The results are were as follows:

2019 Dry Weather Results											
Site I.D.	Date	Bottle #	Time	Air Temp	Water Temp	Chlorine	Copper	Phenols	Detergents	pH	Photo
18	8/2/2019	1	9:50 AM	77	71.2	N/A	N/A	N/A	N/A	7.55	Yes
35	8/30/2019	4	8:40AM	66	63.6	N/A	N/A	N/A	N/A	7.71	Yes
36	8/30/2019	22	8:50 AM	66	63.4	N/A	N/A	N/A	N/A	7.81	Yes
32	8/30/2019	18	9:07 AM	66	64.2	N/A	N/A	N/A	N/A	7.5	Yes
34	8/30/2019	21	9:20 AM	67	65.3	N/A	N/A	N/A	N/A	7.65	Yes
24	8/30/2019	6	9:26 AM	67	65	N/A	N/A	N/A	N/A	7.66	Yes
21	8/30/2019	24	9:35 AM	68	66.4	N/A	N/A	N/A	N/A	7.71	Yes

4. Construction Site Storm Water Runoff Control

- A strict program is actively being enforced in Rock Island to reduce pollutants from active construction sites.
- Our current stormwater ordinance meets all NPDES requirements for erosion and sediment control, along all related BMPs. Our stormwater ordinance is found at <http://rigov.org/DocumentCenter/Home/View/1009> and all related items can be found in: **Article II. Construction Site Runoff Control**
- All active construction sites are inspected once every 7 days, and after a precipitation event totaling 0.5 inch or greater.
- Construction site inspections are documented in our permitting software and kept for our records.
- The City of Rock Island collaborates with other local agencies and businesses to host an annual erosion and sediment control workshop. This event is geared towards engineers, designers, developers, municipal worker, contractors, and anyone else who is in the business of stormwater. This event has increased its attendance every year and the City of Rock Island promotes it from within to include as many City staff members as possible. We reached over 150 attendees this year and had 6 employees from the City of Rock Island attend. These were representatives from both the Public Works and the Community and Economic Development Department. The event flyer is on page 8 of this report.

We will continue to be informed of the latest updates in the construction and sediment control industry, and educate everyone involved on how to keep a clean and compliant site. We will review our stormwater ordinance periodically to make sure it is an effective document that complies or exceeds all NPDES requirements.

7th ANNUAL



QUAD CITIES STORMWATER CONFERENCE



“Challenges, Collaboration & Resiliency”

February 11, 2020 AGENDA

SCHEDULE	5 PDU'S/CEU'S EARNED!
8:00 to 8:30 am	REGISTRATION
8:45 to 9 am	Welcome from Bettendorf City Administrator Decker Ploehn
9 to 9:45 am	Inspection Report Exercise – Small Group Discussions
9:45 to 11:30 am	BMP Exercise Led by Christopher B. Burke Engineering
11:30 – 12:30 pm	LUNCH
12:30 to 1 pm	Exhibitors in a Nutshell
1 to 2 pm	“Protection of Practices During Construction” from Dan Salsinger - Hanes Geo
2 to 2:15 pm	BREAK
2:15 to 3 pm	“How a Flood Saved the River” from Amy Foster, Stormwater Coordinator - City of Coralville
3 to 4 pm	I-74 Bridge Project Update from George Ryan, Project Manager – Wood Environmental & Infrastructure Solutions
4 to 5 pm	SOCIAL HOUR - Door Prizes, Beer Tasting, Networking, Evals

SPONSORED BY:



5. Post-Construction Storm Water Management in New Development and Redevelopment

- It is always encouraged to developers to preserve the natural features of a site and minimize the new impervious surfaces as much as possible. That is a common goal of all departments in Rock Island.
- All required detention and retention structures in the City are required to be visually inspected every year. The visual inspection is done by the owner to look for erosion, debris, trash or any other factors that could jeopardize the functionality of the stormwater structure. The City of Rock Island currently has 50 structures on this list that it requires these inspections.
- Every 5 years we require the owner to have their detention structure inspected by an engineer actively licensed in the state of Illinois. This has been a great opportunity to discuss the long-term maintenance plans of these structures with the developer and owner before they are installed. The forms that are required to be completed are on page 9 and 10 of this report.



City of Rock Island Public Works Department

Storm Water Detention/ Retention Structures ♦ Inspection Checklist

RETURN CHECKLIST WITHIN 30 DAYS OF DUE DATE

If you have any questions regarding this checklist, please call the City of Rock Island's Public Works Department at (309) 732-2200.

Basin/ Property Owner: _____

Basin/ Structure Maintainer (usually owner): _____

Basin/ Property Address: _____

Phone Number of Owner and Maintainer: _____

Basin/ Structure Type (circle choice or write in below):
Rain Garden/Bioretenion; Wet Detention; Dry Detention;
Other _____

Inspection Date: _____

The Basin/ Property Owner does not complete an annual inspection report when the 5th Year Inspection is due. Basin/ Property Owner must coordinate a 5th Year Inspection to be completed entirely by a professional engineer licensed in the State of Illinois.

Basin/ Property Owner must complete ONLY the "Annual Inspection Items" below and sign this on the back for all years between 5th Year Inspections.

ANNUAL INSPECTION ITEMS

CIRCLE "YES" OR "NO" FOR ALL ITEMS BELOW

- A. HAS DEBRIS OR TRASH ACCUMULATED IN BASIN OR STRUCTURE? YES NO
B. ARE NOXIOUS WEEDS PRESENT THAT PREVENT THE DESIRED VEGETATION FROM GROWING PROPERLY? YES NO
C. IS THERE EXPOSED SOIL NOT COVERED WITH VEGETATION, MULCH, OR OTHER NONERODABLE MATERIAL? YES NO
D. IS ALGAE OR STAGNANT MOISTURE PRESENT IN BASIN OR STRUCTURE? YES NO
E. ARE UNPLEASANT ODORS EMERGING FROM BASIN OR STRUCTURE? YES NO
F. HAS SEDIMENT ACCUMULATED IN BASIN OR STRUCTURE? YES NO
G. IS SOIL EROSION PRESENT ALONG STANDING OR MOVING SURFACE WATER? YES NO
H. IS SOIL EROSION PRESENT AT BASIN SIDES, INLET, OR OUTLET? YES NO
I. ARE HOLES PRESENT FROM ANIMALS OR UNDESIRABLE SOIL LOSS? YES NO
J. ARE WET OR SOGGY AREAS PRESENT THAT PREVENT DESIRED VEGETATION FROM GROWING? YES NO
K. IS RUNOFF ENTERING OR LEAVING THE BASIN OR STRUCTURE IN A MANNER THAT PREVENTS PROPER FUNCTION OF ITS INFLOW OR OUTFLOW SYSTEMS? YES NO
L. DOES FLOW OUT OF BASIN OR STRUCTURE OCCUR IN A MANNER THAT CREATES EROSION OR DAMAGE TO ADJACENT PROPERTY? YES NO
M. ARE THE BASIN OR STRUCTURE FUNCTIONS IMPAIRED? YES NO
N. OTHER ITEMS AND COMMENTS:
O. CORRECTIVE MEASURES FOR ALL YES ANSWERS ABOVE:

Basin/ Property Owner must sign at the bottom of next page for "Annual Inspection" Professional Engineer Inspection Also On Next Page (5-year interval)

5TH-YEAR INSPECTION ITEMS

**MUST BE COMPLETED BY A PROFESSIONAL ENGINEER
LICENSED IN THE STATE OF ILLINOIS**

Inspection by the Engineer shall include at a minimum:
Both the annual inspection items shown on the previous page and the additional items shown below.
(Basin/ Property Owner please note the requirements for a 5th Year Inspection located just prior to
"Annual Inspection Items" on the previous page.)

- A. ASSESSMENT OF ANY PUMP, PIPE, RIPRAP, AND STRUCTURES PRESENT:
(i.e. IS THERE A NEED FOR REPLACEMENT OR MAINTENANCE OF BASIN OR STRUCTURE COMPONENTS?)
.....
.....
- B. GENERAL ASSESSMENT OF THE BASIN OR STRUCTURE:
(i.e. DOES THE BASIN OR STRUCTURE APPEAR TO FUNCTION PROPERLY? MODIFICATIONS RECOMMENDED FOR IMPROVED FUNCTION)
.....
.....
- C. ASSESSMENT OF BASIN OR STRUCTURE ELEVATIONS:
(i.e. ARE CRITICAL INFLOW, OUTFLOW, OVERFLOW PATHS AND ELEVATIONS UNCHANGED FROM THE AS-BUILT PLANS?)
(NOTE: THE ELEVATION REASONABLENESS CHECK IS INTENDED TO BE A VISUAL CHECK FOR LARGE SETTLEMENT, CHANNEL EROSION,
OR BASIN MODIFICATIONS AND NOT A REQUIREMENT FOR A SURVEY.)
.....
.....
- D. ASSESSMENT OF BASIN OR STRUCTURE VOLUMES:
(i.e. IS THERE EVIDENCE OF BASIN CHANGES AFFECTING THE STORAGE VOLUME FROM THAT SHOWN ON THE AS-BUILT PLANS?)
(NOTE: THE VOLUME REASONABLENESS CHECK IS INTENDED TO BE A VISUAL CHECK FOR LARGE ACCUMULATIONS OF SEDIMENT
OR BASIN MODIFICATIONS AND NOT A REQUIREMENT FOR A SURVEY.)
.....
.....
- E. OTHER ITEMS AND COMMENTS:
.....
.....
- F. CORRECTIVE MEASURES NEEDED:
.....
.....

(ATTACH ADDITIONAL PAGES IF NEEDED TO PROPERLY DOCUMENT INSPECTION ABOVE)

THE INFORMATION PROVIDED IN THIS INSPECTION FORM IS AN ACCURATE AND CURRENT DESCRIPTION OF THE
BASIN OR STRUCTURE AT THIS ADDRESS:

SIGNATURE OF PERSON COMPLETING THIS FORM DATE ENGINEER MUST SEAL DOCUMENT HERE
FOR 5TH YEAR INSPECTION

THIS INSPECTION FORM MUST BE RETURNED TO THE FOLLOWING ADDRESS WITHIN 30 DAYS OF DUE DATE:

CITY OF ROCK ISLAND PUBLIC WORKS DEPARTMENT
ATTN: STORM WATER DETENTION/ RETENTION INSPECTION
1309 MILL STREET
ROCK ISLAND, IL 61201

6. Pollution Prevention/Good Housekeeping for Municipal Operations

- All of our procedures related to this section are constantly evaluated to reduce the discharge of pollutants to the maximum extent practicable.
- All equipment washing station are located indoors with the proper facilities.
- All building materials are protected and kept on site.
- Leaks and spills are addressed immediately and disposed of properly.
- Deicing materials are stored in permanent storage structures, and a minimal usage strategy is approached in all applications of such materials.

Section 2: The Monitoring, Recordkeeping and Reporting

1. Monitoring

- During this reporting period we have continued to implement an instream monitoring program that samples 5 sites from the highest hydrological unit code within our MS4. The goal of the program is to sample these sites quarterly and within a 24-hour period after a precipitation event equal or greater than one quarter inch. We test for total suspended solids, total nitrogen, total phosphorous, fecal coliform, chlorides, and oil and grease. During this reporting period we were only able to sample three times due to weather conditions. A map of these sites, along with these findings are located on page 13.

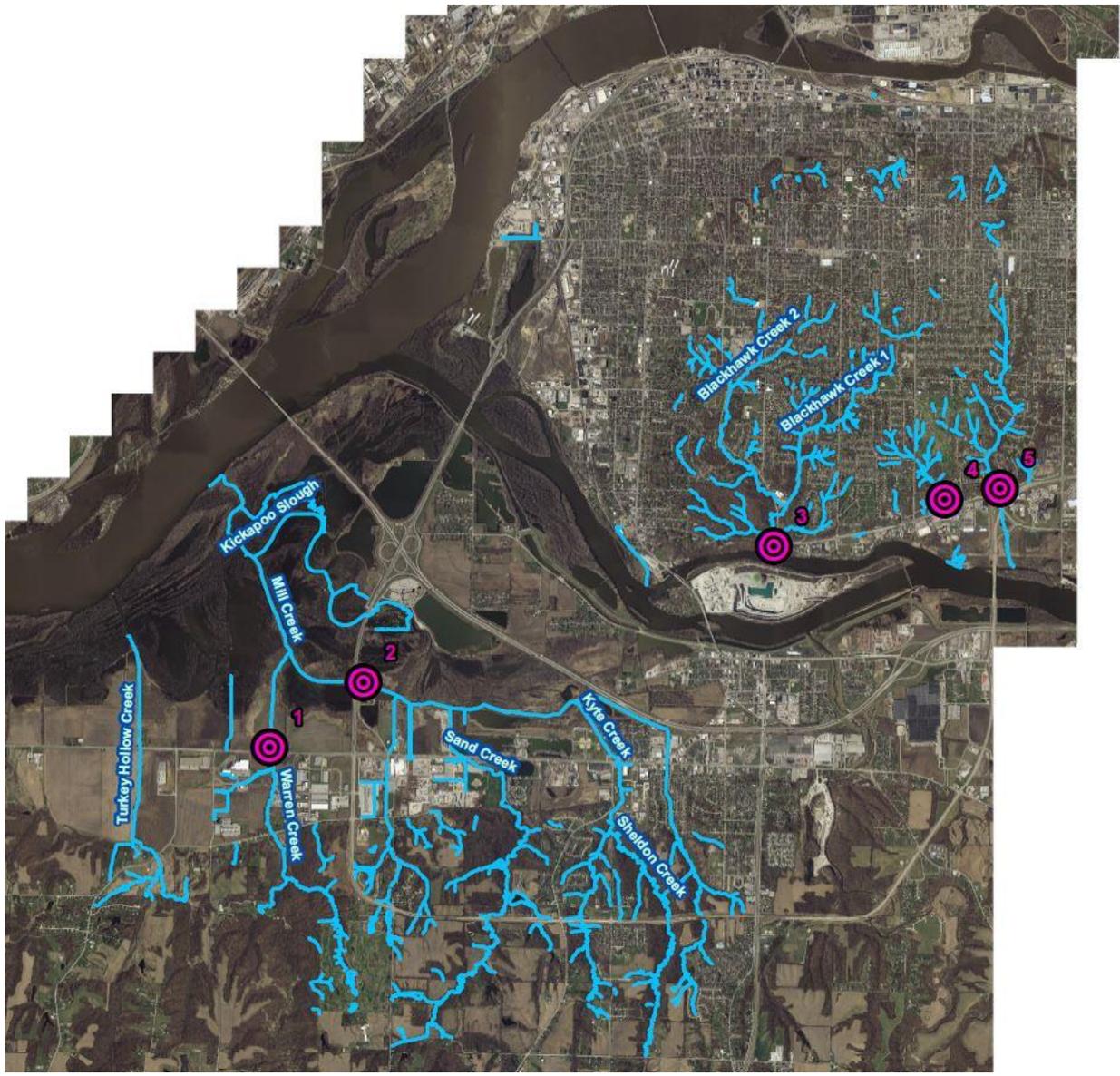
2. Recordkeeping

- All records under this permit will be kept for a minimum of 5 years after the expiration of this permit

3. Reporting

- We will comply with all annual reporting and include the necessary information

2019-2020 Results													
Sample Site	Bottle #	Site #	Date	Time	Fecal Coliform /100 ml	Nitrite mg/L	P mg/L	Suspended Solids mg/L	Fats, Oil & Grease mg/L	Chloride mg/L	Nitrate as N mg/L	Total Kjeldahl Nitrogen mg/L	Temp
1	6	1	4/10/2019	1:15pm	2170	0	0.2	359.5	1.5	19.9	0.7	<1.0	
2	4	2	4/10/2019	1:25pm	470	0.004	0.21	87	<1.0	82.5	1.2	<1.0	
3	3	3	4/10/2019	1:40pm	2980	0.004	0.23	197.5	<1.0	45.1	0.6	<1.0	
4	5	4	4/10/2019	1:50pm	475	0.002	0.23	165	<1.0	92	0.6	<1.0	
5	14	5	4/10/2019	2:00pm	1235	0	0.3	51	<1.0	60.7	0.9	<1.0	
Sample Site	Bottle #	Site #	Date	Time	Fecal Coliform /100 ml	Nitrite mg/L	P mg/L	Suspended Solids mg/L	Fats, Oil & Grease mg/L	Chloride mg/L	Nitrate as N mg/L	Total Kjeldahl Nitrogen mg/L	Temp
1	3	1	8/6/2019	8:50am	21200	0.029	0.48	144	6.4	124	0.9	<1.0	
2	5	2	8/6/2019	9:05am	38000	0.07	0.36	31.5	11.4	52.5	0.6	<1.0	
3	10	3	8/6/2019	9:20am	30000	0.064	0.52	39.5	3.3	68.7	0.6	<1.0	
4	12	4	8/6/2019	9:30am	405	0.066	1.15	86.5	6.5	163	10.8	8.2	
5	14	5	8/6/2019	9:40am	0	0	0.29	34.5	3.7	15	<1.0	<1.0	
Sample Site	Bottle #	Site #	Date	Time	Fecal Coliform /100 ml	Nitrite mg/L	P mg/L	Suspended Solids mg/L	Fats, Oil & Grease mg/L	Chloride mg/L	Nitrate as N mg/L	Total Kjeldahl Nitrogen mg/L	Temp
1	10	1	12/13/2019	9:05am	150	0	0.25	14	4.7		0.6	<1.0	35.9
2	9	2	12/13/2019	9:13am	1740	0.003	1.14	11	14.4		10.2	2.2	46.4
3	3	3	12/13/2019	9:27am	195	0	0.3	12	5.8		1.3	1.4	33.1
4	1	4	12/13/2019	9:45am	185	0.001	0.22	4					34.2
5	5	5	12/13/2019	9:58am	780	0.004	0.27	4	16.7		0.9	1.6	33.6



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