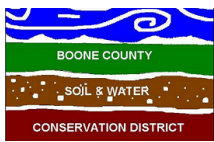


# Appendix A1: Social Indicator Survey

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**Dear agricultural producer/landowner,**

The Upper Sugar Creek Watershed Project, comprised of the Boone County, Clinton County, Montgomery County, and Tippecanoe County Soil and Water Conservation Districts is conducting this survey in coordination with local partners to understand soil and water quality issues in the Upper Sugar Creek Watershed. Your insights are particularly important in helping us understand and facilitate technical and financial assistance for local conservation efforts.

There are two ways in which you can complete our survey:

1. The most convenient way is for you to enter the following website address into your web browser and provide your responses securely online:

**[bit.ly/UpperSugarSurvey2023](https://bit.ly/UpperSugarSurvey2023)**

If you choose to complete the survey online you will need to enter the following code:



This will indicate that you completed the survey and we will stop sending reminders. The information you provide is confidential and will never be linked to your name, only to this code, which we use to know who has responded to the survey.

2. We have also included this paper version with a postage-paid return envelope if you prefer to respond by mail.

We ask that this survey be completed by the person in your home **who makes most of the agricultural management decisions** and is at least 18 years old.

Your voluntary participation in this survey will help us understand the needs and concerns of agricultural producers in your area. Your answers will be kept confidential and will be released only as summaries where answers cannot be linked to individual respondents.

Unless otherwise instructed, please check the selection that **best describes your situation or opinion** for the agricultural operation located **within the portion of the Upper Sugar Creek watershed indicated in the map on page 2, highlighted in yellow**. The survey should take approximately 20 minutes to complete.

For more information regarding the survey, please contact your local Soil & Water Conservation District, as listed below. Thank you in advance for your help!

**Sheryl Vaughn**  
District Administrator,  
Boone County  
765.482-6355 ext. 8676

**Stephen Miller**  
Resource Conservation  
Specialist, Clinton Co.  
765.659.1223 ext. 3

**Kristen Latzke**  
Conservation Director,  
Montgomery County  
765.362.0405 ext. 3

**Kris Gertz**  
District Administrator,  
Tippecanoe County  
7765.474.9992 ext. 4001

# UPPER SUGAR CREEK WATERSHED

Your views on local water resources.

Take this survey digitally at  
[bit.ly/UpperSugarSurvey2023](https://bit.ly/UpperSugarSurvey2023) (case sensitive)

ID No :

Date :

For Administrative Use Only:

## Special Note:

For questions concerning this survey, do not hesitate to contact Kristen Latzke, Conservation Director, at (765) 362-0405 Ext 1 or [KLatzke@MontgomeryCoSWCD.com](mailto:KLatzke@MontgomeryCoSWCD.com)

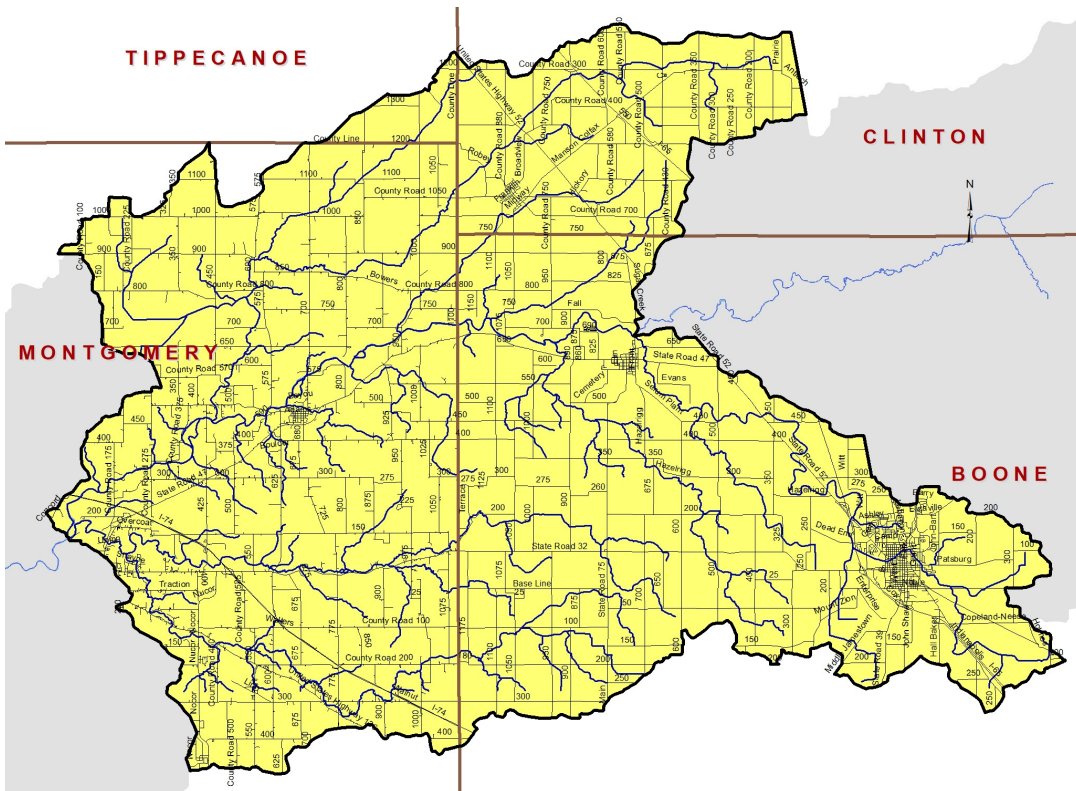
## Section I - Rating of Water Quality

### 1. Overall, how would you rate the quality of the water in your area?

	POOR	OKAY	GOOD	DON'T KNOW
For canoeing/kayaking/other boating	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
For swimming	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
For scenic beauty	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
For fish habitat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### 2. Of these activities, which is the most important to you?

- For picnicking and family activities
- For fish habitat
- For scenic beauty
- For canoeing / kayaking / other boating
- For eating locally caught fish
- For swimming



Map of the Upper Sugar Creek Watershed, with counties and roads labeled for ease of reference.

1. Do you have a septic system?

- No
- Don't Know
- Yes



**STOP: If you answered "No" to question one, skip to section III.**

2. If you answered "Yes" to the previous question, in what year was it installed?

Year: \_\_\_\_\_

3. In the future, would you like a reminder from your local health department regarding inspection/maintenance of your septic system?

- Yes
- No
- Don't know

4. Is your septic system designed to treat sewage or get rid of waste?

- Treat sewage
- Get rid of waste
- Both
- Neither
- Don't know

5. Do you think a local government agency should handle the inspection and maintenance of septic systems?

- No
- Don't Know
- Yes

6. Does your septic system have an absorption field (finger system)?

- Yes
- No
- Don't know

7. Within the last five years, have you had any of the following problems? (Check all that apply)

- Slow drains
- Sewage backup in house
- Bad smells near tank or drain field
- Sewage on the surface
- Sewage flowing to ditch
- Frozen septic
- Other
- None
- Don't know

8. How would you know if your septic system was NOT working properly? (Check all that apply)

- Slow drains
- Sewage backup in house
- Bad smells
- Toilet backs up
- Wet spots in lawn
- Pumping tank monthly or more
- Straight pipe to ditch
- Frozen septic
- Don't know
- Other

9. Do you have a garbage disposal?

- Yes, I use it daily
- Yes, I use it occasionally
- Yes, but I don't use it
- No

## Section III - Your Opinions

Please indicate your level of agreement or disagreement with the statements below.

Statement	Strongly Disagree	Disagree	Neither Agree Nor Disagree	Agree	Strongly Agree
The way that I care for my lawn and yard can influence water quality in local streams and lakes.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Using recommended management practices on farms improves water quality.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It is my personal responsibility to help protect water quality.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It is important to protect water quality even if it slows economic development.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My actions have an impact on water quality.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would be willing to pay more to improve water quality (for example: through local taxes or fees)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would be willing to change the way I care for my lawn and yard to improve water quality.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would be willing to change management practices to improve water quality.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The quality of life in my community depends on good water quality in local streams, rivers and lakes.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Water Impairments

Below is a list of water pollutants and conditions that are generally present in water bodies to some extent. The pollutants and conditions become a problem when present in excessive amounts. In your opinion, how much of a problem are the following water impairments in your area?

<i>Impairment</i>	Not a problem	Slight Problem	Moderate Problem	Severe Problem	Don't Know
Sedimentation (dirt & soil) in the water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Nitrogen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Phosphorus	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bacteria and viruses in the water (such as E.coli / coliform)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pesticides	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Trash or debris in the water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Algae in the water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Habitat alteration harming local fish	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Consequences of Poor Water Quality

Poor water quality can lead to a variety of consequences for communities. In your opinion, how much of a problem are the following issues in your area?

<i>Consequence</i>	Not a problem	Slight Problem	Moderate Problem	Severe Problem	Don't Know
Loss of desirable fish species	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Reduced beauty of lakes or streams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Contaminated drinking water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Reduced opportunities for water recreation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Reduced quality of water recreation activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Excessive aquatic plants or algae	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fish kills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Polluted swimming areas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Sources of Water Pollution

The items listed below are sources of water quality pollution across the country. In your opinion, how much of a problem are the following sources in your area?

<i>Pollution Source</i>	Not a problem	Slight Problem	Moderate Problem	Severe Problem	Don't Know
Discharges from industry into streams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Soil erosion from construction sites	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Soil erosion from farm fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Soil erosion or vegetation removal along streambanks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Excessive use of lawn fertilizers and/or pesticides	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Trash or debris in the water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improperly maintained septic systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manure from farm animals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Land development or redevelopment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Discharges from sewage treatment plants	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Stormwater runoff from rooftops and/or parking lots	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Littering/illegal dumping of trash	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Excessive use of fertilizers for crop production	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inappropriate waste disposal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dredging of streams or ditches	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Practices to Improve Water Quality

Please indicate which statement most accurately describes your level of experience with each practice listed below.

<i>Practice</i>	Not relevant for my property	Never heard of it	Somewhat familiar	Know how to use it; not using it	Currently use it
Following the manufacturer's instructions when fertilizing or using pesticides for lawn, garden, or turf	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use manure in accordance with its nutrient content	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Avoid fall application of manure or nitrogen fertilizer to reduce environmental losses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use field records of crops, pests and pesticide use to help develop pest control strategies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use heavy use area protection for waste management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use no-till to reduce erosion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use reduced-tillage to reduce erosion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use cover crops for erosion protection and soil improvement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use a grassed waterway to reduce erosion and soil loss	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rotate crops to control soil erosion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Follow an approved grazing management plan	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use fencing to exclude animals from critical areas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Plant trees/shrubs/prairie installations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Follow an approved forest management plan	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Create or Restore/enhance wetland	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Maintain/ Plant vegetated, forested or herbaceous riparian buffer and/or stabilize streambanks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Decommission well	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Section IV - Constraints for Specific Practices

### Cover Crops

*(Planting cover crops for erosion protection and soil improvement.)*

**How familiar are you with this practice?**

- Not relevant for my property
- Never heard of it
- Somewhat familiar
- Know how to use it; Not using it
- Currently use it

**If the practice is not relevant, please explain:**

---



---

**Are you willing to try this practice?**

- Yes/Already do
- Maybe
- No

How much do the following factors limit your ability to implement this practice?

	Not at all	A little	Some	A lot	Don't know
Don't know how to do it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Time required	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cost	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The features of my property make it difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Insufficient proof of water quality benefit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Desire to keep things the way they are	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hard to use with my farming system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of equipment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### Variable Rate Application

*(Use variable rate application technology for fertilizer to reduce environmental losses)*

**How familiar are you with this practice?**

- Not relevant for my property
- Never heard of it
- Somewhat familiar
- Know how to use it; Not using it
- Currently use it

**If the practice is not relevant, please explain:**

---



---

**Are you willing to try this practice?**

- Yes/Already do
- Maybe
- No

How much do the following factors limit your ability to implement this practice?

	Not at all	A little	Some	A lot	Don't know
Don't know how to do it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Time required	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cost	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The features of my property make it difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Insufficient proof of water quality benefit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Desire to keep things the way they are	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hard to use with my farming system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of equipment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



## Drainage Water Management

(Manage the water level in tile lines/drainage water management utilizing blind inlets, boxes, inline structures)

### How familiar are you with this practice?

- Not relevant for my property
- Never heard of it
- Somewhat familiar
- Know how to use it; Not using it
- Currently use it

### If the practice is not relevant, please explain:

---



---

### Are you willing to try this practice?

- Yes/Already do
- Maybe
- No

How much do the following factors limit your ability to implement this practice?

	Not at all	A little	Some	A lot	Don't know
Don't know how to do it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Time required	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cost	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The features of my property make it difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Insufficient proof of water quality benefit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Desire to keep things the way they are	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hard to use with my farming system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of equipment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Soil Testing: Frequency, Sampling procedure

(Conduct regular soil tests for pH, phosphorus, nitrogen and potassium)

### How familiar are you with this practice?

- Not relevant for my property
- Never heard of it
- Somewhat familiar
- Know how to use it; Not using it
- Currently use it

### If the practice is not relevant, please explain:

---



---

### Are you willing to try this practice?

- Yes/Already do
- Maybe
- No

How much do the following factors limit your ability to implement this practice?

	Not at all	A little	Some	A lot	Don't know
Don't know how to do it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Time required	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cost	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The features of my property make it difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Insufficient proof of water quality benefit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Desire to keep things the way they are	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hard to use with my farming system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of equipment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

1. Please select the option that best describes who generally makes management decisions for your operation.

- Me alone or with my spouse
- Me with my family partners (siblings, parents, children)
- Me with the landowner
- Me with my tenant
- Me and my business partners
- Someone else makes the decisions for the operation
- Other

2. Please estimate the total tillable acreage (owned and/or rented) of your farming operation this year.

\_\_\_\_\_ Acres

3. How many years have you been farming?

\_\_\_\_\_ Years

4. Do you currently use a crop advisor or agronomist?

- No, I have never used a crop advisor or agronomist.
- No, I do not currently use a crop advisor or agronomist, but have used one in the past.
- Yes, I currently use a crop advisor.  
*If yes, please specify:*

---



---

5. Did any family member own and operate this farm before you did?

- Yes
- No

6. If you answered 'yes' to the previous question, how many years has the farm been in the family?

\_\_\_\_\_ Years

7. How likely is it that any family member will continue farm operations when you retire or quit farming?

- Definitely will not happen
- Probably will not happen
- Probably will happen
- Definitely will happen

8. How regularly do you conduct soil testing?

---



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9. Are your application recommendations based on current soil testing?

- No
- Don't Know
- Yes

10. Do you have a nutrient management plan for your farm operation?

- Yes
- No

**11. Five years from now, which statement best describes your farm operation?**

- It will be about the same as it is today
- It will be larger
- It will be smaller
- I don't know

**12. What is included in your nutrient management plan?**

- Commercial Nutrients
- Livestock Manure
- Septic Waste
- Municipal or industrial sludge
- Other

13. In 2022, how many acres of each of the following did you manage in the portion of the Upper Sugar Creek Watershed indicated on the map? (If none, enter 0.)

<i>Crop Type</i>	<i>Acres</i>
<b>Corn Acres</b>	_____ Acres
How many corn acres were no-till, strip-till, or ridge-till?	_____ Acres
How many corn acres were in cover crops?	_____ Acres
<b>Soybean Acres</b>	_____ Acres
How many soybean acres were no-till, strip-till, or ridge-till?	_____ Acres
How many soybean acres were in cover crops?	_____ Acres
<b>Other (Specify)</b>	_____ Acres
Total Conservation Acreage set aside (e.g. Conservation Reserve Program, Wetland Reserve Program)	_____ Acres

**14. Does the property you manage touch a stream, river, lake, or wetland?**

- Yes
- No

**15. Who developed your current nutrient management plan?**

- My local Conservation District, University Extension, or NRCS office
- A private-sector agronomist or crop consultant
- I created my own plan
- I don't know
- Other

16. How many of the following animals are a part of your farming operation in the portion of the Upper Sugar Creek Watershed indicated on the map? (If none, enter 0.)

<i>Species</i>	<i>Head</i>
Dairy Cattle (including heifers and young stock)	_____
Beef Cattle (including young stock)	_____
Hogs (including contract hog barns)	_____
Poultry	_____
Horses	_____
Other Livestock (Specify)	_____

**1. Do you make the home and lawn care decisions in your household?**

- Yes
- No

**2. What is your gender?**

- Male
- Female

**3. What is your age?**

\_\_\_\_\_ Years

**4. What is the highest grade in school you have completed?**

- Some formal schooling
- High School/GED
- Some college
- 2-year college degree
- 4-year college degree
- Post-graduate degree

**5. What is the approximate size of your residential lot?**

- 1/4 acre or less
- More than 1/4 acre but less than 1 acre
- 1 acre to less than 5 acres

**6. Do you own or rent your home?**

- Own
- Rent

**7. How long have you lived at your current residence?**

\_\_\_\_\_ Years

**8. Which of the following best describes where you live?**

- In a town, village, or city
- In an isolated, rural, non-farm residence
- Rural subdivision or development
- On a farm

**9. In addition to your residence, which of the following do you own or manage? (Check all that apply)**

- An agricultural operation
- Forested Land
- Rural recreational property
- None of these

**10. What is your ethnicity?**

- African American
- American Indian
- Asian/Asian American/Pacific Islander
- Hispanic/Latino
- White/Caucasian
- Multi-racial
- Other

**11. Do you use a professional lawn care service?**

- Yes, just for mowing
- Yes, for mowing and fertilizing
- Yes, just for fertilizing and pest control
- Yes, for mowing, fertilizing, and pest control
- No

**12. Do you regularly read a local newspaper?**

- Yes
- No

**1. Where are you likely to seek information about soil and water conservation issues?  
(Check all that apply)**

- Newsletters/brochure/factsheet
- Internet
- Radio
- Workshops/demonstrations/meetings
- Conversations with others
- Trade publications/magazines
- None of the above

**Information Sources**

People get information about water quality from a number of different sources. To what extent do you trust those listed below as a source of information about soil and water?

	Not at all	Slightly	Moderately	Very Much	Am not familiar
Soil and Water Conservation District	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Natural Resources Conservation Service	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Purdue University Extension	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Nonprofit Environmental groups	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Neighbors / friends	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Farm Service Agency	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Farm Bureau	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Local watershed project	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fertilizer representatives	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Crop consultants	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Land trust	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Local government	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
U.S. Environmental Protection Agency	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Indiana State Department of Agriculture	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Indiana Department of Environmental Management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Local community leader	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Department of Natural Resources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
County Health department	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Thank you for your time and assistance!**

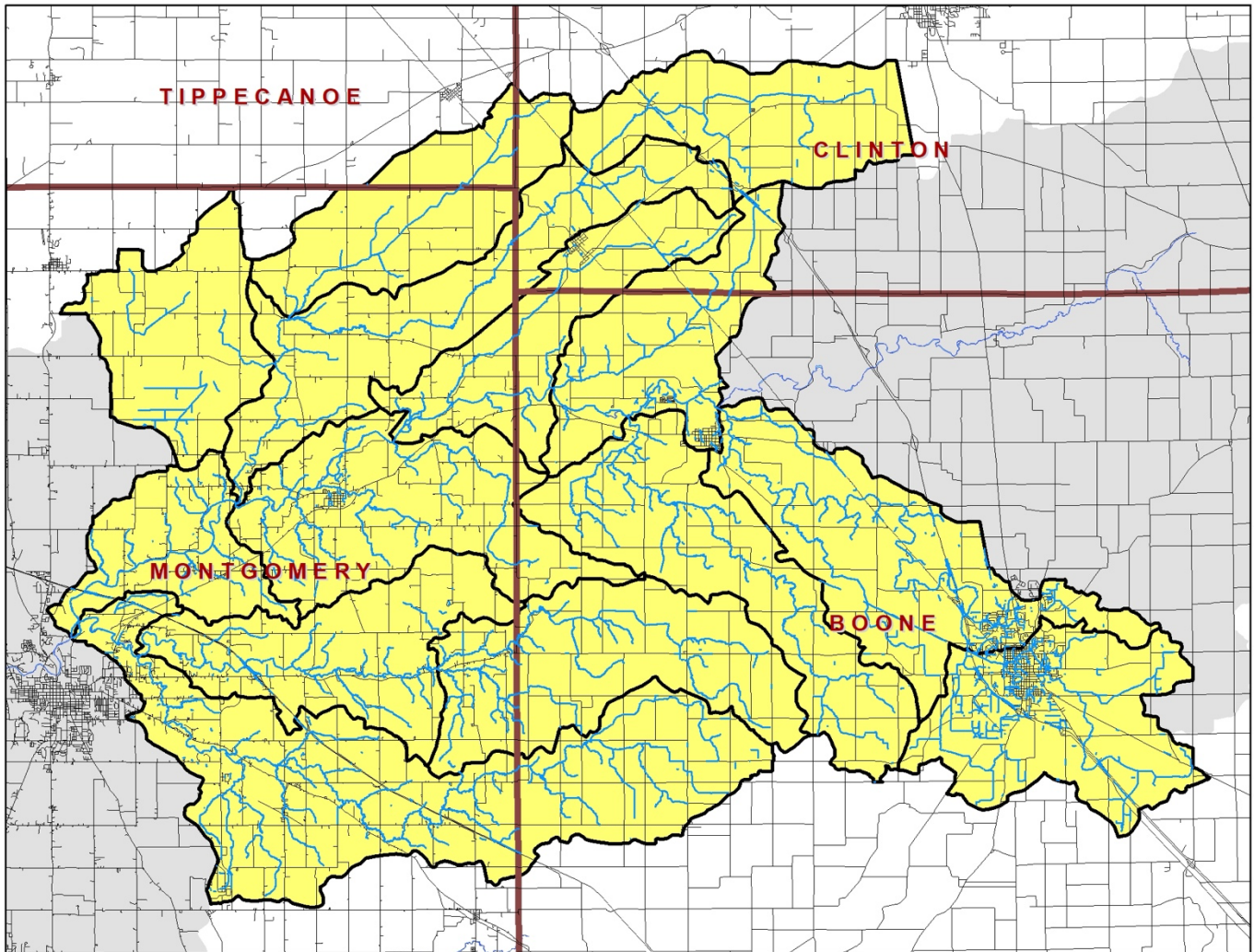
Please return your completed survey in the postage-paid envelope provided. Please use the space on the back of this survey for any additional comments about this document or water resource issues in your community.

# Appendix A2: Social Indicator Survey Results

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# Human Dimensions of Water Quality in the Upper Sugar Creek Watershed



## I. Methods

### Mail Survey

- 472 Surveys distributed
  - Of which, 239 also sent by email
- 40 Bad addresses, or deceased individuals
- 189 Completed (43.75% response rate after accounting for bad addresses)

Date Mailed	Item Delivered
1/3/2023	Advanced Letter
1/10/2023	Questionnaire #1 + Introduction Letter
1/24/2023	Reminder Postcard
2/7/2023	Questionnaire #2 + Reminder Letter
2/21/2023	Final Notice Letter



Results

Upper Sugar Creek Survey

April 7th 2023, 8:52 pm EDT

**Section 1 – Rating of Water Quality**

**Q1 - Overall, how would you rate the quality of the water in your area?**

Question	Poor	Okay	Good	Total
For scenic beauty	4 (3%)	33 (24.8%)	96 (72.2%)	133
For canoeing/kayaking/other boating	15 (12.6%)	24 (20.2%)	80 (67.2%)	119
For swimming	23 (20.5%)	49 (43.8%)	40 (35.7%)	112
For fish habitat	9 (8.2%)	48 (43.6%)	53 (48.2%)	110

**Q2 - Of these activities, which is the most important to you?**

Answer	Count (%)
For swimming	2 (1.6%)
For eating locally caught fish	10 (7.8%)
For picnicking and family activities	16 (12.5%)
For canoeing / kayaking / other boating	19 (14.8%)
For fish habitat	25 (19.5%)
For scenic beauty	56 (43.8%)
Total	128 (100%)

**Section 2 – Septic Systems**

**Q3 - Do you have a septic system?**

Answer	Count (%)
No	28 (15.7%)
Yes	150 (84.3%)
Total	178 (100%)

**Q4 - If you answered "Yes" to the previous question, in what year was it installed?**

Average year in which septic was installed: 1993

Respondents who were unsure or did not know: 22

1970's	2013	1995	?	2001
2000	No idea	2018	1977	2014
2020	?	2005	1960 i think	2010
1994	1989	1998	??	1993
1993	2007	2010	?	1960
2013	2005	1994	2004	1967
2009	1978	1979	1994	2022
2005	?	Don't know	unknown	1974
2000	2000	2005	1986	1975
1992	? Don't know	2002	2021	1990
1995	1985?	1950?	1960	1994
2000	1976	2010	1995	1996
Don't know	1975	1993	2000	Unknown
?	2018	1999	1980	2001
1994	1977	2002	2004	2012
2020	Early 70s	1998	1980	2013
2000	1998	1996	not sure	1972
2005	1976 + 2010	1955	1979	2007
?	1955	1996	1976	2006
1950's?	1970	2002	?	2021
1978	1986	1977	1973	1975
2022	1988	Don't know	2005	1969
1988	2021	2000	2008	1977
1977	2009	2018	2008	2020
1918	2005	?	1999	
2004	1991	2006	2004	
1950?	?	2021	1979	
1988	1995	2005	1980	

illegible	Don't know	No idea	?	
1991	2013	2004	1994?	

**Q5 - In the future, would you like a reminder from your local health department regarding inspection/maintenance of your septic system?**

Answer	Count (%)
Yes	8 (5.8%)
No	131 (94.2%)
Total	139 (100%)

**Q6 - Is your septic system designed to treat sewage or get rid of waste?**

Answer	Count (%)
Neither	4 (2.6%)
Treat sewage	16 (10.5%)
Don't know	26 (17.1%)
Get rid of waste	44 (29%)
Both	62 (40.8%)
Total	152 (100%)

**Q7 - Do you think a local government agency should handle the inspection and maintenance of septic systems?**

Answer	Count (%)
Yes	18 (13.4%)
No	116 (86.6%)
Total	134 (100%)

**Q8 - Does your septic system have an absorption field (finger system)?**

Answer	Count (%)
No	19 (13.6%)
Yes	121 (86.4%)
Total	140 (100%)

**Q9 - Within the last five years, have you had any of the following problems? (Check all that apply)**

Answer	Count (%)
Frozen septic	0 (0.00%)
Sewage flowing to ditch	1 (0.6%)
Sewage on the surface	2 (1.3%)
Other	2 (1.3%)
Sewage backup in house	3 (1.9%)
Bad smells near tank or drain field	4 (2.5%)
Don't know	4 (2.5%)
Slow drains	6 (3.8%)
None	137 (86.2%)
Total	159 (100%)

Of these responses, all problems came from 12 respondents.

**Q10 - How would you know if your septic system was NOT working properly? (Check all that apply)**

<b>Answer</b>	<b>Count (%)</b>
Frozen septic	2 (0.3%)
Sewage flowing to ditch	7 (1.2%)
Sewage on the surface	19 (3.2%)
Other	22 (3.8%)
Sewage backup in house	59 (10.1%)
Bad smells near tank or drain field	77 (13.1%)
Don't know	81 (13.8%)
Slow drains	95 (16.2%)
None	110 (18.7%)
Total	115 (19.6%)

**Q11 - Do you have a garbage disposal?**

<b>Answer</b>	<b>Count (%)</b>
Yes, but I don't use it	8 (5.3%)
Yes, I use it daily	27 (18%)
Yes, I use it occasionally	53 (35.3%)
No	62 (41.3%)
Total	150 (100%)

**Q12 - Please indicate your level of agreement or disagreement with the statements below.**

<b>Question</b>	<b>Strongly Disagree</b>	<b>Disagree</b>	<b>Neither agree nor disagree</b>	<b>Agree</b>	<b>Strongly Agree</b>	<b>Total</b>
The way that I care for my lawn and yard can influence water quality in local streams and lakes.	10 (5.4%)	15 (8.1%)	37 (20%)	93 (50.3%)	30 (16.2%)	185
Using recommended management practices on farms improves water quality.	4 (2.6%)	4 (2.6%)	10 (5.4%)	135 (72.6%)	33 (17.7%)	186
It is my personal responsibility to help protect water quality.	4 (2.1%)	2 (1.1%)	14 (7.5%)	119 (63.3%)	49 (26.1%)	188
It is important to protect water quality even if it slows economic development.	4 (2.1%)	6 (3.2%)	31 (16.6%)	111 (59.4%)	35 (18.7%)	187
My actions have an impact on water quality.	3 (1.6%)	8 (4.0%)	26 (14%)	112 (60.2%)	37 (19.9%)	186
I would be willing to pay more to improve water quality (for example: through local taxes or fees)	36 (19.5%)	39 (21.1%)	69 (37.3%)	33 (17.8%)	8 (4.3%)	185
I would be willing to change the way I care for my lawn and yard to improve water quality.	8 (4.4%)	25 (13.8%)	64 (35.4%)	73 (40.3%)	11 (6.1%)	181
I would be willing to change management practices to improve water quality.	3 (1.6%)	15 (8.1%)	71 (38.4%)	86 (46.5%)	10 (5.4%)	185
The quality of life in my community depends on good water quality in local streams, rivers and lakes.	7 (3.7%)	7 (3.7%)	26 (13.9%)	117 (62.6%)	30 (16%)	187

**Q14 - Water Impairments**

Below is a list of water pollutants and conditions that are generally present in water bodies to some extent. The pollutants and conditions become a problem when present in excessive amounts. In your opinion, how much of a problem are the following water impairments in your area?

Question	Not a Problem	Slight Problem	Moderate Problem	Severe Problem	Don't Know	Total
Phosphorus	41 (22.3%)	42 (22.8%)	33 (18.5%)	7 (3.8%)	60 (32.6%)	184
Sedimentation (dirt & soil) in the water	33 (17.8%)	52 (28.1%)	67 (36.2%)	11 (6%)	22 (11.8%)	185
Pesticides	44 (23.8%)	48 (26%)	28 (15.1%)	14 (7.6%)	51 (27.6%)	185
Nitrogen	43 (23.1%)	44 (23.7%)	35 (18.8%)	6 (3.2%)	58 (31.2%)	186
Bacteria and viruses in the water (such as E.coli / coliform)	48 (25.8%)	35 (18.8%)	32 (17.2%)	10 (5.4%)	61 (32.8%)	186
Habitat alteration harming local fish	59 (31.7%)	31 (16.7%)	32 (17.2%)	8 (4.3%)	56 (30.1%)	186
Trash or debris in the water	37 (19.8%)	50 (26.7%)	55 (29.4%)	24 (12.8%)	21 (11.2%)	187
Algae in the water	56 (30%)	49 (26.2%)	38 (20.3%)	6 (3.2%)	38 (20.3%)	187

**Q15 - Consequences of Poor Water Quality**

Poor water quality can lead to a variety of consequences for communities. In your opinion, how much of a problem are the following issues in your area?

Question	Not a Problem	Slight Problem	Moderate Problem	Severe Problem	Don't Know	Total
Contaminated drinking water	64 (35.2%)	33 (18.1%)	23 (12.6%)	17 (9.3%)	45 (24.7%)	182
Reduced beauty of lakes or streams	48 (26.2%)	61 (33.3%)	36 (19.7%)	11 (6%)	27 (14.8%)	183
Loss of desirable fish species	53 (28.8%)	34 (18.5%)	32 (17.4%)	10 (5.4%)	55 (29.9%)	184
Reduced opportunities for water recreation	71 (38.6%)	34 (18.5%)	33 (17.9%)	6 (3.3%)	40 (21.74%)	184
Reduced quality of water recreation activities	68 (34%)	36 (19.6%)	32 (17.4%)	5 (2.7%)	43 (23.4%)	184
Excessive aquatic plants or algae	54 (29.4%)	44 (23.9%)	29 (15.8%)	11 (6%)	46 (25%)	184
Fish kills	69 (37.5%)	32 (17.4%)	21 (11.4%)	12 (6.5%)	50 (27.2%)	184
Polluted swimming areas	57 (31%)	39 (21.2%)	21 (11.4%)	16 (8.7%)	51 (27.7%)	184

### Q16 - Sources of Water Pollution

The items listed below are sources of water quality pollution across the country. In your opinion, how much of a problem are the following sources in your area?

Question	Not a Problem	Slight Problem	Moderate Problem	Severe Problem	Don't Know	Total
Soil erosion from farm fields	29 (16.1%)	72 (40%)	52 (28.9%)	11 (6.1%)	16 (8.9%)	180
Soil erosion from construction sites	42 (23.2%)	53 (29.3%)	44 (24.3%)	7 (3.9%)	35 (19.3%)	181
Discharges from industry into streams	44 (24.2%)	35 (19.2%)	36 (19.8%)	18 (9.9%)	49 (26.9%)	182
Improperly maintained septic systems	45 (24.6%)	47 (25.7%)	28 (15.3%)	9 (4.9%)	54 (29.5%)	183
Manure from farm animals	75 (41%)	47 (25.7%)	21 (11.5%)	6 (3.3%)	34 (18.6%)	183
Inappropriate waste disposal	38 (20.8%)	51 (27.9%)	34 (18.6%)	14 (7.7%)	46 (25.1%)	183
Dredging of streams or ditches	83 (45.4%)	41 (22.4%)	11 (6%)	5 (2.7%)	43 (23.5%)	183
Stormwater runoff from rooftops and/or parking lots	47 (25.5%)	48 (26.1%)	35 (19%)	13 (7.1%)	41 (22.3%)	184
Soil erosion or vegetation removal along streambanks	42 (22.7%)	62 (33.5%)	39 (21.1%)	14 (7.6%)	28 (15.1%)	185
Excessive use of lawn fertilizers and/or pesticides	41 (22.2%)	36 (19.5%)	42 (22.7%)	22 (11.9%)	44 (23.8%)	185
Trash or debris in the water	26 (14.1%)	60 (32.4%)	56 (30.3%)	17 (9.2%)	26 (14.1%)	185
Land development or redevelopment	35 (18.9%)	36 (19.5%)	50 (27%)	35 (18.9%)	29 (15.7%)	185
Discharges from sewage treatment plants	52 (28.1%)	33 (17.8%)	28 (15.1%)	10 (5.4%)	62 (33.5%)	185
Littering/illegal dumping of trash	22 (11.9%)	59 (31.9%)	52 (28.1%)	27 (14.6%)	25 (13.5%)	185
Excessive use of fertilizers for crop production	59 (31.9%)	60 (32.4%)	18 (9.7%)	9 (4.9%)	39 (21.1%)	185

**Q17 - Practices to Improve Water Quality**

Please indicate which statement most accurately describes your level of experience with each practice listed below.

Question	Not relevant for my property	Never Heard of it	Somewhat familiar	Know how to use it; not using it	Currently use it	Total
Rotate crops to control soil erosion	20 (11.1%)	1 (0.6%)	8 (4.4%)	5 (2.8%)	147 (81.2%)	181
Plant trees/shrubs/prairie installations	70 (38.7%)	2 (1.1%)	24 (13.3%)	30 (16.6%)	55 (30.4%)	181
Decommission well	113 (62.4%)	18 (9.9%)	14 (7.7%)	16 (8.8%)	20 (11.1%)	181
Use heavy use area protection for waste management	96 (52.8%)	28 (15.4%)	22 (12.1%)	13 (7.1%)	23 (12.6%)	182
Create or Restore/enhance wetland	107 (58.8%)	4 (2.2%)	22 (12.1%)	28 (15.4%)	21 (11.5%)	182
Maintain/ Plant vegetated, forested or herbaceous riparian buffer and/or stabilize streambanks	65 (35.7%)	5 (2.8%)	22 (12.1%)	20 (11%)	70 (38.5%)	182
Use manure in accordance with its nutrient content	81 (44.3%)	3 (1.6%)	17 (9.3%)	30 (16.4%)	52 (28.4%)	183
Use field records of crops, pests and pesticide use to help develop pest control strategies	31 (16.9%)	6 (3.3%)	25 (13.7%)	16 (8.7%)	105 (57.4%)	183
Use no-till to reduce erosion	25 (13.7%)	1 (0.6%)	13 (7.1%)	27 (14.8%)	117 (63.9%)	183
Use a grassed waterway to reduce erosion and soil loss	21 (11.5%)	2 (1.1%)	11 (6%)	18 (9.8%)	131 (71.6%)	183
Follow an approved grazing management plan	113 (61.8%)	2 (1.1%)	12 (6.6%)	25 (13.7%)	31 (16.9%)	183
Follow an approved forest management plan	104 (56.8%)	8 (4.4%)	17 (9.3%)	34 (18.6%)	20 (10.9%)	183
Avoid fall application of manure or nitrogen fertilizer to reduce environmental losses	55 (29.9%)	2 (1.1%)	26 (14.1%)	42 (22.8%)	59 (32.1%)	184
Use cover crops for erosion protection	29 (15.8%)	1 (0.5%)	19 (10.3%)	77 (41.9%)	58 (31.5%)	184



and soil improvement						
Use reduced-tillage to reduce erosion	31 (16.8%)	2 (1.1%)	13 (7%)	20 (10.8%)	119 (64.3%)	185
Use fencing to exclude animals from critical areas	119 (64.3%)	2 (1.1%)	10 (5.4%)	18 (9.7%)	36 (19.5%)	185
Following the manufacturer's instructions when fertilizing or using pesticides for lawn, garden, or turf	48 (25.8%)	4 (2.2%)	17 (9.1%)	28 (15.1%)	89 (47.9%)	186

**Q18 - Cover Crops**

**How familiar are you with this practice? (Cover Crops: Planting cover crops for erosion protection and soil improvement.)**

Answer	Count (%)
Never heard of it	2 (1.1%)
Not relevant for my property	18 (10.1%)
Somewhat familiar	28 (15.7%)
Currently use it	51 (28.7%)
Know how to use it; Not using it	79 (44.4%)
Total	178 (100%)

**Are you willing to try this practice?**

Answer	Count (%)
Yes/Already do	45 (35.2%)
Maybe	56 (43.8%)
No	27 (21.1%)
Total	128 (100%)

**How much do the following factors limit your ability to implement this practice?**

Question	Not at all	A little	Some	A lot	Don't know	Total
Don't know how to do it	89 (57.1%)	14 (9%)	27 (17.3%)	12 (7.7%)	14 (9%)	156
The features of my property make it difficult	93 (59.6%)	12 (7.7%)	24 (15.4%)	7 (4.5%)	20 (12.8%)	156
Lack of equipment	60 (38.2%)	20 (12.7%)	31 (19.8%)	34 (21.7%)	12 (7.6%)	157
Hard to use with my farming system	54 (34%)	24 (15.1%)	33 (20.8%)	27 (17%)	21 (13.2%)	159
Cost	34 (21.3%)	22 (13.8%)	41 (25.6%)	47 (29.4%)	16 (10%)	160
Insufficient proof of water quality benefit	83 (51.9%)	15 (9.4%)	20 (12.5%)	7 (4.4%)	35 (21.9%)	160
Time required	45 (28%)	18 (11.2%)	50 (31.1%)	32 (19.9%)	16 (9.9%)	161
Desire to keep things the way they are	79 (49.1%)	18 (11.2%)	20 (12.4%)	26 (16.2%)	18 (11.2%)	161

**If the practice is not relevant, please explain:**

My tenant farms are good stewards regular test and follow good conservation practices
We no longer own property in Montgomery county
Don't actively farm; tillable acres rented out.
Takes moisture away from crop in dry year
we don't plant crops on our property (3 acres)
I don't farm
Permanent pasture and hay
Up to tenant farming property
Rent the farmland
This is a church property and parsonage area
I currently lease this farm so this survey should probably be completed by him
I am retiring - age 80
Retired from farming
Not needed for erosion control. Never gets big enough to improve soil. Lessons yields
Hay fields on our property
My land is rented out to farm
The acres we use are in grasses and alfalfa
Don't want to use it
Don't farm
All wooded property
Don't have time
I have no row crops except in my garden
Most of our fields are flat and not next to creeks/ditches, do use c.c. some, but not every where
Do not farm
Pasture only + hay field
My field has been planted in CRP (pollinator habitat)
This bottom ground is leased out and farmed, although things may change with a new tenant this year.
Hay field and pastures

### Q19 - Variable Rate

How familiar are you with this practice? (Variable Rate Application: Use variable rate application technology for fertilizer to reduce environmental losses)

Answer	Count (%)
Currently use it	115 (66.9%)
Know how to use it; Not using it	13 (7.6%)
Not relevant for my property	14 (8.1%)
Somewhat familiar	21 (12.2%)
Never heard of it	9 (5.2%)
Total	172 (100%)

Are you willing to try this practice?

Answer	Count (%)
No	13 (12.5%)
Maybe	18 (17.3%)
Yes/Already do	73 (70.2%)
Total	104 (100%)

How much do the following factors limit your ability to implement this practice?

Question	Not at all	A little	Some	A lot	Don't know	Total
Don't know how to do it	96 (67.1%)	5 (3.5%)	16 (11.2%)	7 (7.7%)	15 (10.5%)	143
Time required	86 (59.7%)	13 (9%)	20 (13.9%)	10 (6.9%)	15 (10.4%)	144
Cost	72 (49.3%)	20 (13.7%)	22 (15.1%)	17 (11.6%)	15 (10.3%)	146
The features of my property make it difficult	110 (75.9%)	7 (4.8%)	7 (4.8%)	6 (3.5%)	16 (11%)	145
Insufficient proof of water quality benefit	90 (62.5%)	13 (9%)	13 (9%)	7 (4.9%)	21 (14.6%)	144
Desire to keep things the way they are	94 (64.8%)	11 (7.6%)	17 (11.7%)	13 (9%)	10 (6.9%)	145
Hard to use with my farming system	92 (63.5%)	15 (10.3%)	9 (6.2%)	11 (7.6%)	18 (12.4%)	145
Lack of equipment	81 (56.3%)	12 (8.3%)	14 (9.7%)	23 (16%)	14 (9.7%)	144

**If the practice is not relevant, please explain:**

Don't actively farm; tillable acres rented out.
I don't farm
Up to tenant farming property
Rent the land. Ditch is covered in hay/grass
I'm not a farmer. I only plant 1 acre of deer food crop and use no fertilizer. The rest of my property is native grasses.
I currently lease this farm so this survey should probably be completed by him
Retiring
My land is rented out to farm
We have hay
I rent my farm ground
All wooded property
Don't have eg (??)
Rent land
No crops except in my garden
Do not farm
Don't use fertilizer
Above
Not using any chemical fertilizer

## Q20 - Drainage Water Management

How familiar are you with this practice?

(Drainage Water Management: Manage the water level in tile lines/drainage water management utilizing blind inlets, boxes, inline structures)

Answer	Count (%)
Not relevant for my property	18 (10.3%)
Never heard of it	24 (13.7%)
Know how to use it; Not using it	30 (17.1%)
Currently use it	42 (24%)
Somewhat familiar	61 (34.9%)
Total	175 (100%)

Are you willing to try this practice?

Answer	Count (%)
No	22 (19.5%)
Yes/Already do	34 (30.1%)
Maybe	57 (50.4%)
Total	113 (100%)

How much do the following factors limit your ability to implement this practice?

Question	Not at all	A little	Some	A lot	Don't know	Total
Don't know how to do it	57 (36.5%)	23 (14.7%)	34 (21.8%)	14 (9%)	28 (18%)	156
Time required	37 (24.2%)	32 (20.9%)	34 (22.2%)	19 (12.4%)	31 (20.3%)	153
Cost	23 (14.8%)	22 (14.2%)	27 (17.4%)	49 (31.6%)	34 (21.9%)	155
The features of my property make it difficult	56 (36.4%)	22 (14.3%)	22 (14.3%)	19 (12.3%)	35 (22.7%)	154
Insufficient proof of water quality benefit	63 (41.2%)	20 (13.1%)	22 (14.4%)	13 (8.5%)	35 (22.9%)	153
Desire to keep things the way they are	73 (47.7%)	15 (9.8%)	31 (20.3%)	11 (7.2%)	23 (16%)	153
Hard to use with my farming system	62 (40.5%)	23 (15%)	25 (16.3%)	9 (5.9%)	34 (22.2%)	153
Lack of equipment	30 (19.9%)	21 (13.9%)	32 (21.2%)	36 (23.8%)	32 (21.2%)	151

**If the practice is not relevant, please explain:**

I am retired
Work with tenant when needed
Retiring
Retired
Regen farmer 100% cover crops - use this a modifier to tile nutrient loss.
My land is rented out to farm
Don't farm
Tried one, It was a joke. Didn't work and just got in the way!
Same as previous
Not farming land
Too much fall in our tile lines, if you plug the outlet it will blow out somewhere else.
Not row crops on our property

**Q21 - Soil Testing**

**How familiar are you with this practice? (Soil Testing: Frequency, Sampling procedure: Conduct regular soil tests for pH, phosphorus, nitrogen, and potassium)**

Answer	Count (%)
Never heard of it	2 (1.2%)
Know how to use it; Not using it	6 (3.5%)
Not relevant for my property	7 (4%)
Somewhat familiar	8 (4.6%)
Currently use it	151 (86.8%)
Total	174 (100%)

**Are you willing to try this practice?**

Answer	Count (%)
No	2 (2%)
Maybe	6 (5.9%)
Yes/Already do	93 (92.1%)
Total	101 (100%)

**How much do the following factors limit your ability to implement this practice?**

Question	Not at all	A little	Some	A lot	Don't know	Total
Don't know how to do it	118 (82.5%)	7 (4.9%)	6 (4.2%)	6 (4.2%)	6 (4.2%)	143
Time required	104 (73.2%)	15 (10.6%)	11 (7.8%)	4 (2.8%)	8 (5.6%)	142
Cost	86 (61%)	19 (13.5%)	20 (14.2%)	10 (7.1%)	6 (4.3%)	141
The features of my property make it difficult	120 (84.5%)	7 (4.9%)	6 (4.2%)	2 (1.4%)	7 (4.9%)	142
Insufficient proof of water quality benefit	103 (72.5%)	10 (7%)	11 (7.8%)	4 (2.8%)	14 (9.9%)	142
Desire to keep things the way they are	106 (74.7%)	11 (7.8%)	10 (7.0%)	8 (5.6%)	7 (4.9%)	142
Hard to use with my farming system	116 (81.1%)	8 (5.6%)	8 (5.6%)	2 (1.4%)	9 (6.3%)	143
Lack of equipment	101 (70.6%)	14 (9.8%)	12 (8.4%)	8 (5.6%)	8 (5.6%)	143



**If the practice is not relevant, please explain:**

Someone else farms it
Ditch is not farmed. Farm land is already soil tested
I currently lease this farm so this survey should probably be completed by him
Retiring
Every 4 years grid test
My land is rented out to farm
All wooded property
No crops
Renters do it
Same as previous
Do not farm

**Q22 - Please select the option that best describes who generally makes management decisions for your operation.**

Answer	Count (%)
Other	2 (1.1%)
Me with the landowner	5 (2.8%)
Me and my business partners	5 (2.8%)
Someone else makes the decisions for the operation	11 (6.2%)
Me with my tenant	20 (11.3%)
Me with my family partners (siblings, parents, children)	57 (32.2%)
Me alone or with my spouse	77 (43.5%)
Total	157 (100%)

**Q23 - Please estimate the total tillable acreage (owned and/or rented) of your farming operation this year.**

Average tillable acreage: 1,215.2 acres

Total tillable acreage: 206,590.75 acres

545	3	3.6	1250	114	0	6300
112	165	72	33	15	1900	2500
95	800	3500	12	720	32	2000
NA	600	800	4000	458	2000	4200
10000	360	46	3200	2000	1600	7
319	6000	110	198	3000	19	80
800	225	550	1800	100	2000	410
3000	11000	11	1,530	700	4,000	1200
4200	160	1200	600	150	960	354
200	850	3000	160	3500	1300	7500
38	1500	30	2100	143	244	644
900	676	370	2300	1900	150	220
5500	3300	500	4200	2200	2700	200
200	3400	57	2500	20	8.65	1720
155	1200	2700	1500	420	6700	61
327	430	1000	2500	26	850	0
345	1500	19	25	4000	220	800
240	23	490	2000	80	275	
600	140	2200	320	1080	8	
110	170	190	990	1560	1500	
1276	21	500	280	900	300	
11,000+	NA	500	500	135	18	
480	120	660	85	100	1700	
168	500	475	1200	1450	197	
2.5	1500	700	2500	68	1800	
2000	293	94	460	358	147	

**Q24 - How many years have you been farming?**

Average length of time: 38.5 years

0	28	41	50	60
0	28	42	50	60
0	28	42	50	61
1	29	42	50	62
3	29	42	50	65
5	30	42	50	65
7	30	43	50	75
9	30	44	50	?
9	30	44	50	25 - pasture only
10	30	44	50	40+
10	30	44	50	40+
10	30	44	50	40+
11	30	45	51	50, now retired
11	30	45	52	50+
11	30	45	52	50+
12	30	45	52	50+
12	32	45	52	50+
13	32	45	52	55 years, retired
13	32	45	52	60+
15	34	45	53	I don't
16	35	45	53	landowner only
16	35	45	54	lease
17	35	45	54	life time
18	37	46	55	NA
20	37	47	55	no longer
20	37	47	55	Renting
20	39	48	55	We are a church
23	40	48	57	
23	40	48	59	
23	40	48	60	
23	40	49	60	
24	40	49	60	
25	40	50	60	
25	40	50	60	
25	40	50	60	

**Q25 - Do you currently use a crop advisor or agronomist?**

Answer	Count (%)
No, I do not currently use a crop advisor or agronomist, but I have used one in the past.	33 (19.3%)
No, I have never used a crop advisor or agronomist.	51 (29.8%)
Yes, I currently use a crop advisor. If yes, please specify:	87 (50.9%)
Total	171 (100%)

**Q4 Yes, I currently use a crop advisor. If yes, please specify:**

Agronomist	09897 Bob Royer crop
Ceres	Abby Horlacher
Ceres	Co-Alliance - Reagan
Co-Alliance	Advanced Argillitics
Co-Alliance	Co-Alliance - Reagan
Co-Alliance	Local co-op
Co-op	I use an independent agronomist to make fert, chem recommendation
Dr Paul Hodgen	Fertilizer company/agronomist
I use an agronomist when I want a second opinion	Coop Co-Alliance
I was a CCA before I started farming full time	Nickel Plate Consulting - Abby Horlacher
Independent advisor	tenant does it
John McGullicutty	Independent Agronomist
Lamb Farms	Ceres Solutions - Wingate
Levi Collis - Farmers edge	Soil microbiologist and an independent crop scout
Local Co-op	Advanced Agrillitics
Mark Kepple	Co-Alliance
Nutrien	Nicholson Consulting for fertility, Bayer agronomist in season
Nutrien	Seed and fertilizer agronomists
Per the soil test results	Co-Alliance
Reynolds Agronomy	Co-Alliance
Reynolds/Co-Alliance	Helps me nutrient management plan
Seed Fertility New Trends	Co-Alliance
Soil analyst	Co-Alliance
Soil testing	Co-Alliance agronomist
Tenant may, but don't know	Helena

**Q26 - Did any family member own and operate this farm before you did?**

Answer	Count (%)
Yes	118 (66.3%)
No	60 (33.7%)
Total	178 (100%)

**Q27 - How many years has the farm been in your family?**

Average years farms have been in respondents' families: 81 years

Total years of ownership in watershed: 10,660 years

3	56	72	100	171	60+
9	56	74	100	192	80+
12	60	74	100	196	80+
14	60	75	100	200	80+ years
15	60	76	100	+/- 100 years	85?
20	60	77	100	~70	90+
23	62	80	100	100 + years	A long time
25	65	80	105	100 years plus	don't know
30	65	80	107	100+	NA
30	65	80	110	100+	Over 100 yr
30	66	80	110	100+	Over 100 yrs
30	66	82	115	100+	Since 1945
30	66	85	124	100+	
32	67	85	125	100+	
35	67	87	125	100+	
47	68	90	130	100+years	
50	68	90	132	150 years	
50	70	90	132	20 years	
50	70	90	140	200 years	
50	70	91	150	32 yrs	
50	70	99	150	50+	
50	70	100	157	60 years	
53	72	100	163	60; 20 years	
55	72	100	170	60+	

**Q28 - How likely is it that any family member will continue farm operations when you retire or quit farming?**

Answer	Count (%)
Definitely will not happen	19 (11%)
Definitely will happen	19 (11%)
Probably will not happen	41 (23.7%)
Probably will happen	94 (54.3%)
Total	173 (100%)

**Q29 - How regularly do you conduct soil testing?**

Answer	Count (%)
Annually	40 (24.0%)
2 year	38 (22.8%)
3 year	18 (10.8%)
4 year	33 (19.8%)
5 year	3 (1.8%)
½ every other year	2 (1.2%)
3-5 years	5 (3%)
Not regular	12 (7.2%)
Never	5 (3%)
Not sure	7 (4.2%)
Unique answers (below)	4 (2.4%)
Total	167 (100%)

Unique responses:

- Every 8 years
- 2-3 times a year
- Every year on 25% of acres, every 5th yr 100%
- 3-4 times a year

**Q30 - Are your application recommendations based on current soil testing?**

Answer	Count (%)
No	11 (6.9%)
Yes	149 (93.1%)
Total	160 (100%)

**Q31 - Do you have a nutrient management plan for your farm operation?**

Answer	Count (%)
Yes	122 (73.1%)
No	45 (26.9%)
Total	167 (100%)

**Q32 - Five years from now, which statement best describes your farm operation?**

Answer	Count (%)
It will be smaller	2 (1.6%)
It will be larger	30 (23.8%)
It will be about the same as it is today	94 (74.6%)
Total	126 (100%)

**Q33 - What is included in your nutrient management plan?**

Answer	Count (%)
Commercial nutrients	131 (80.9%)
Livestock manure	19 (11.7%)
Septic waste	1 (0.6%)

Municipal or industrial sludge	1 (0.6%)
Other	10 (6.2%)
Total	162 (100%)

Q34 - In 2022, how many acres of each of the following did you manage in the portion of the Upper Sugar Creek Watershed indicated on the map? If none, please enter 0.

Corn acres	Corn w/ conserv. till	Corn w/ cover crop	Soybean acres	Corn w/ conserv. till	Soybean w/ cover crop	Other (Specify)	Total conservation acreage
51			494				10+/-
24	24	0	24	24	24	hay 18, pasture 40	0
95	95						
0	0	0	0	0	0	0	0
372	372	20	441	20			
300	0	0	300	0	0		4
40			160				
				38			
450	450		450	450			12
2750			2750				
100	40		75				
			155	155			
127			100				10
161	161		184	184			
120							5
127			90				
99	99	20					2
620	620		656	656			
			800	800	400		
175			235	235			7.9
845	845		845	845			
300			200				
735	382		311	311		212	3
3.6	3.6						9
1750	1000	160	1750	800			25
400			400				3
46							
193			204				



Corn acres	Corn w/ conserv. till	Corn w/ cover crop	Soybean acres	Corn w/ conserv. till	Soybean w/ cover crop	Other (Specify)	Total conservation acreage
250							
						30 pasture/hay	
600	600		600	600			10
1500	1500		1500	1500			
1400		100	1100			30, hay	
30							
52	all	325	all				8
55	55		33	33			
0			0				20
							13
400	400		400	400	32		
300	300	120	300	300	100		1
260			100				
300	300		300	300			
	117			108			1
5800	4800	2000		5200	2000		75
60			60	60			
400	400	30	400	400	30		
							wheat
1500	100	50	1500	200	50		
1700			1700	500		1200 acres cows	
123			285	285	285		
194			192	192			
600	600		750	750			
45	45		95	95			
			26				
			20	20			
40	40	40	60	60	0		0
250			250	150			

Corn acres	Corn w/ conserv. till	Corn w/ cover crop	Soybean acres	Corn w/ conserv. till	Soybean w/ cover crop	Other (Specify)	Total conservation acreage
							22
132	132		160.67	160.67			
			61				
57							
1350	1350		1350	1350			
500	250	100	500	500	100	10	10
			19				
250	250		240	240			1
1100	1100	900	1100	1100	800		10
110			100	100			
			120	120	120		
240	240		520	420			
264	200		64	64			
185	185		185	185			
44	44		50	50			
47		81	35				
15	15						
400	400	0	320	320	0		0
258			200	200			
1000	1000	20	1000	1000	20		
120				120			
						Hay - 100	
365			230			30	50
150	150	150					
3000	1800	1200	1200	1200	600		70
63	63	63					
249	0	0	0	0	0		0
716	0	132	442	442	442		0
150	150	0	270	270	0		0

Corn acres	Corn w/ conserv. till	Corn w/ cover crop	Soybean acres	Corn w/ conserv. till	Soybean w/ cover crop	Other (Specify)	Total conservation acreage
0	0	0	0	0	0	hay	0
			80	80			
350			300				
618	618		603	603			
400			400				
72			63				
100	100	100	0	0			
			160				
			68	0	0		6
143			130	130			
							8
575	575		550	550			2
			33	33			
						12- wildflowers	
2000	1000		2000	1500			20
1500	900		1500	1200	1000		20
99				99			
450	600			600			
730			800				
300			300				
80			80				
1010				1090			
						800 - trees	
400			200				
						20 - pasture	
950	950	56	950	950			
			32	32			
850	400	450	950	500	450		10
650			650				

Corn acres	Corn w/ conserv. till	Corn w/ cover crop	Soybean acres	Corn w/ conserv. till	Soybean w/ cover crop	Other (Specify)	Total conservation acreage
						18	
1000	200	200	1000	1000	50	-	20
2000	2000		2000	2000		50	50
140			240				
150	0	0	0	0	0		0
187	187		58				
150	150						
250			250	150			
1000	0	0	1000	0	0		
425			422				
60	60	60					
130	130	0	130	130	6		4.5
						hay - 8	
600	500	0	600	500	0	0	
120	120	120	120	120	120	60	10
800	60		600	200			
50	none	none	60		40	Wheat, 60 acres	none
700	0	0	1100	1100	0		0
85	85	0	0	0	0		
400	0	0	400	0	0	0	0
1000	0	0	1500	500	0		50
830	0	0	800	0	0		0
1250	1250	0	1250	1250	0	0	30
0	0	0	0	0	0	0	25
1000	0	0	1000	800	0		
							none
600	600	0	390	390	0		5
120	0	0	160	160	0	0	0
40	40	0	0	0	0		10

Corn acres	Corn w/ conserv. till	Corn w/ cover crop	Soybean acres	Corn w/ conserv. till	Soybean w/ cover crop	Other (Specify)	Total conservation acreage
0	0	0	85	0	0		0
750	80		450	450			2.8
1500	1500	500	1000	1000	600		45
0	0	0	0	0	0		
3200	3200	300	3100	3100	1200		A lot
1200	1200	0	1200	1200	0	Pasture, hayfields	0
1000	1000	0	1000	1000	0		
2000	0	0	2000	2000	0		
0							
0	0	0	75	0	0	5 Hay	0
100	100	0	125	125	0		0
400	0	0	400	400	0		
354	0	0	0	0	0		0
300	300	0	200	200	0		18
0			0				
		20	110	110			25
100	100	Don't know	100	100	Don't know		5.5

**Q35 - Does the property you manage touch a stream, river, lake or wetland?**

Answer	Count (%)
Yes	112 (65.9%)
No	58 (34.1%)
Total	170 (100%)

**Q36 - Who developed your current nutrient management plan?**

Answer	Count (%)
My local conservation district, university extension or NRCS office	9 (6.4%)
Other	12 (8.5%)
I created my own plan	35 (24.8%)
A private-sector agronomist or crop consultant	85 (60.3%)
Total	141 (100%)

Q37 - How many of the following animals are a part of your farming operation in the portion of the Upper Sugar Creek Watershed indicated on the map. If none, please enter 0.

Dairy cattle (including heifers and young stock)	Beef cattle (including young stock)	Hogs (including contract hog barns)	Poultry	Horses	Other Livestock (specify)
0	50	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
	50			5	
	25				
	50			14	
	175				
	290				
	2			4	
	30				
	30				
	40		12	40	
0	0	0	0	0	0
	15		26		
	50				
	45				
	150			2	
	20				
	40				
	30 cows, 45 feeders				
0	0	0	0	0	
	35				
	5			4	
	250				
	30		9		
0	0	0	0	0	0
	20-25				
	68				

Dairy cattle (including heifers and young stock)	Beef cattle (including young stock)	Hogs (including contract hog barns)	Poultry	Horses	Other Livestock (specify)
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	2	0	0	1	
0	0	0	0	0	0
	25				
	20			2	
	6 - Summer only				
		1100			
			20		
0	0	0	0	0	0
					bees - 12 hives
0	0	0	0	0	
200					
			6		
				4	
	9				
				4	
none	none	none	none	none	
0	0	0	0	0	0
0	12	0	0	0	60 goats
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	13	3	0
0	0	0	0	0	
0	30	0	0	10	15 sheep
0	95	50			

Dairy cattle (including heifers and young stock)	Beef cattle (including young stock)	Hogs (including contract hog barns)	Poultry	Horses	Other Livestock (specify)
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	30	0	0	0	0
0	0	0	10	0	0
	120				
0	8	5	0	0	4 goats
0	200	0	0	0	
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	6	
0	0	0	0	0	0
0	0	0	0	0	0
0	25	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	0
0	0	0	0	0	0
0	50	0	0	0	0

**Q38 - Do you make the home and lawn care decisions in your household?**

Answer	Count (%)
Yes	161 (93.6%)
No	11 (6.4%)
Total	172 (100%)

**Q39 - What is your gender?**

Answer	Count (%)
Male	154 (90.6%)
Female	16 (9.4%)
Total	170 (100%)



**Q40 - What is your age in years?**

Average age of respondent: 64.5 years

30+	54	62	67	71	82
65-70	54	62	67	72	82
26	54	63	67	72	82
28	55	63	67	72	83
30	55	64	67	72	85
32	55	64	67	72	85
32	56	64	67	73	85
33	56	64	68	73	86
35	57	64	68	73	87
37	57	64	68	73	87
40	57	64	68	73	88
41	58	64	68	74	88
41	59	65	68	74	88
42	59	65	68	74	88
42	59	65	68	74	90
43	59	65	69	74	90
43	59	65	69	75	
43	60	65	69	75	
45	60	65	69	76	
46	60	65	69	76	
49	60	65	70	76	
50	60	66	70	77	
51	60	66	70	77	
51	60	66	70	78	
52	61	66	70	79	
52	62	66	70	80	
52	62	66	70	80	
53	62	66	70	80	
53	62	67	70	81	
53	62	67	70	81	

**Q41 - What is the highest grade in school you have completed?**

Answer	Count (%)
Some formal schooling	1 (0.6%)
Post-graduate degree	13 (7.6%)
2-year college degree	14 (8.2%)
Some college	35 (20.5%)
High School/GED	47 (27.5%)
4-year college degree	61 (35.7%)
Total	171 (100%)

**Q42 - What is the approximate size of your residential lot?**

Answer	Count (%)
5+ acres	8 (4.8%)
1/4 acre or less	9 (5.4%)
More than 1/4 acre but less than 1 acre	16 (9.6%)
1 acre to less than 5 acres	133 (80.1%)
Total	166 (100%)

**Q43 - Do you own or rent your home?**

Answer	Count (%)
Own	170 (99.4%)
Rent	1 (0.6%)
Total	171 (100%)

**Q44 - How long have you lived at your current residence?**

Average duration of time living in home: 28 years

20+	35	28 years	20 years	10	50
32+	35	28 yrs	21	10	50
50+	36	28	22	10	50
don't live here	36	29	22	10	50 years
no residence	37	29	22 years	11	50
1	37	29	23 years	11 years	52
1	37 years	30	23	12	52
1 year	38	30	23	12	53
2	38	30	23	13	55 years
2	40	30	24	13	58
2	40	30	24	13	60
2	40	30	24	13 years	60
2	40 years	30	25	14	68
3	42	31	25	14 years	73
3	44	31	25	14	73
4	44	32	25	15	76
4	45	32	25	15	78
4	45	32 years	25	15	86
5	45	32	25 years	15 years	1994
6	46	32	26	16	10
7	46	32	26	16	50
7 years	47	32 yrs	26	16 years	35
7	48	33	26	17	28
8	48	33	26 years	18	20
8	48 years	33	27	18	
8	48	33	27	19	
9	48	33	28	19	
9	49	34	28	20	

10 years	50	34	28	20	
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**Q45 - Which of the following best describes where you live?**

Answer	Count (%)
Rural subdivision or development	10 (5.8%)
In an isolated, rural, non-farm residence	12 (7%)
In a town, village or city	15 (8.7%)
On a farm	135 (78.5%)
Total	172 (100%)

**Q46 - In addition to your residence, which of the following do you own or manage. Please check all that apply.**

Answer	Count (%)
Rural recreational property	14 (7.2%)
Other	14 (7.2%)
Forested land	36 (18.6%)
An agricultural operation	130 (67%)
Total	194 (100%)

**Q47 - What is your ethnicity?**

Answer	Count %
African American	0.00%
American Indian	0.00%
Asian/Asian American/Pacific Islander	0.00%
Hispanic/Latino	0.00%
Multi-racial	1 (0.6%)
Other	2 (1.2%)
White/Caucasian	161 (98.2%)
Total	164 (100%)

**Q48 - Do you use a professional lawn care service?**

Answer	Count (%)
Yes, just for mowing	1 (0.6%)
Yes for mowing and fertilizing	1 (0.6%)
Yes for mowing, fertilizer and pest control	4 (2.3%)
Yes, just for fertilizing and pest control	28 (16.3%)
No	138 (80.2%)
Total	172 (100%)

**Q49 - Do you regularly read a local newspaper?**

Answer	Count (%)
Yes	79 (45.7%)
No	94 (54.3%)
Total	173 (100%)

**Q50 - Where are you likely to seek information about soil and water conservation issues? Please check all that apply.**

Answer	Count (%)
Radio	16 (4.4%)
Workshops/demonstrations/meetings	48 (13.2%)
Trade publications/magazines	56 (15.4%)
Internet	62 (17%)
Conversation with others	90 (24.7%)
Newsletters/brochure/fact sheet	92 (25.3%)
Total	364 (100%)

**Q51 - People get information about water quality from a number of different sources. To what extent do you trust those listed below as a sources of information about soil and water?**

Question	Not at all	Slightly	Moderately	Very Much	Am not familiar	Total
Local government	66 (39.3%)	42 (25%)	42 (25%)	7 (4.2%)	11 (6.6%)	168
Nonprofit environmental group	64 (37.4%)	38 (22.2%)	47 (27.5%)	8 (4.7%)	14 (8.2%)	171
Fertilizer representatives	27 (15.8%)	45 (26.3%)	65 (38%)	27 (15.8%)	7 (4.1%)	171
Soil and Water Conservation District	6 (3.5%)	10 (5.8%)	48 (27.9%)	101 (58.7%)	7 (4.1%)	172
Natural Resources Conservation Service	9 (5.2%)	13 (7.6%)	49 (28.5%)	91 (52.9%)	10 (5.8%)	172
Farm Services Agency	7 (4.1%)	14 (8.1%)	71 (41.3%)	76 (44.2%)	4 (2.3%)	172
Farm Bureau	24 (14%)	29 (16.9%)	68 (39.5%)	40 (23.3%)	11 (6.4%)	172
Local watershed project	18 (10.5%)	27 (15.7%)	69 (40.1%)	45 (26.2%)	13 (7.6%)	172
Crop consultants	17 (9.9%)	30 (17.4%)	59 (34.3%)	56 (32.6%)	10 (5.8%)	172
Land trust	57 (33.1%)	30 (17.4%)	38 (22.1%)	9 (5.2%)	38 (22.1%)	172
U.S. Environmental Protection Agency	65 (37.8%)	42 (24.4%)	47 (27.3%)	11 (6.4%)	7 (4.1%)	172
Indiana State Department of Agriculture	15 (8.7%)	43 (25%)	76 (44.2%)	32 (18.6%)	6 (3.5%)	172
Local community leader	49 (28.5%)	47 (27.3%)	54 (31.4%)	11 (6.4%)	11 (6.4%)	172
Purdue University Extension	5 (2.9%)	20 (11.6%)	56 (32.4%)	89 (51.5%)	3 (1.7%)	173
Neighbors/friends	12 (6.9%)	42 (24.3%)	90 (52%)	28 (16.2%)	1 (0.6%)	173
Indiana Department of Environmental Management	35 (20.2%)	49 (28.3%)	60 (34.7%)	21 (12.1%)	8 (4.6%)	173
Department of Natural Resources	22 (12.7%)	34 (19.7%)	68 (39.3%)	46 (26.6%)	3 (1.7%)	173
County Health Department	40 (23.1%)	34 (19.7%)	71 (41%)	22 (12.7%)	6 (3.5%)	173

# Appendix B: Endangered, Threatened, and Rare Species Data

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February 11, 2022

## INDIANA HERITAGE DATA WITHIN: Upper Sugar Creek Watershed Management Plan, Boone, Clinton, Montgomery, and Tippecanoe Counties

Sci. Name	Com. Name	State	Fed.	Date	Site	Comments
<b>Bird</b>						
<i>Bartramia longicauda</i>	Upland Sandpiper	SE		1963	SOUTHEAST OF THORNTOWN	
<i>Chordeiles minor</i>	Common Nighthawk	SSC		2010	LEBANON	
<i>Cistothorus palustris</i>	marsh wren	SE		1997	NORTH OF LEBANON	
<i>Cistothorus platensis</i>	sedge wren	SE		2003	PRIVATE PASTURE NEAR PRAIRIE CREEK	
<i>Cistothorus platensis</i>	sedge wren	SE		1998		
<i>Cistothorus platensis</i>	sedge wren	SE		1994		
<i>Cistothorus platensis</i>	sedge wren	SE		2003		
<i>Cistothorus platensis</i>	sedge wren	SE		2009	LEBANON BUSINESS PARK	
<i>Cistothorus platensis</i>	sedge wren	SE		2020	TERRACE ROAD AND LITTLE SUGAR CREEK	
<i>Haliaeetus leucocephalus</i>	bald eagle			2020	DARLINGTON	NEST SITE
<i>Haliaeetus leucocephalus</i>	bald eagle			2020	BOWERS	NEST SITE
<i>Haliaeetus leucocephalus</i>	bald eagle			2020	SMARTSBURG	NEST SITE
<i>Ixobrychus exilis</i>	Least Bittern	SE		2011	LEBANON BUSINESS PARK	
<i>Lanius ludovicianus</i>	Loggerhead Shrike	SE		1951		
<i>Nycticorax nycticorax</i>	Black-crowned Night-heron	SE		1934	LEBANON	
<i>Nycticorax nycticorax</i>	Black-crowned Night-heron	SE		1965		
<i>Rallus limicola</i>	Virginia Rail	SE		1993	NORTH OF LEBANON	
<i>Rallus limicola</i>	Virginia Rail	SE		2005	Lebanon	

Fed: E = Federal endangered; T = Federal threatened; C = Federal candidate species

State: SE = State endangered; ST= State threatened; SR = State rare; SSC = State species of special concern; SG = State significant; WL = watch list; no rank - not ranked but tracked to monitor status

Sci. Name	Com. Name	State	Fed.	Date	Site	Comments
<i>Setophaga cerulea</i>	Cerulean Warbler	SE		1997		
<i>Sturnella neglecta</i>	Western Meadowlark	SSC		2014		
<b>High Quality Natural Community</b>						
<i>Forest - flatwoods central till plain</i>	Central Till Plain Flatwoods	SG		1984	COUNTY LINE WOODS	
<i>Forest - flatwoods central till plain</i>	Central Till Plain Flatwoods	SG		1984	CASTER'S WOODS	
<i>Forest - flatwoods central till plain</i>	Central Till Plain Flatwoods	SG		2013	CALVERT - PORTER NATURE PRESERVE	
<i>Forest - flatwoods central till plain</i>	Central Till Plain Flatwoods	SG		2010	ABNER LONGLEY FLATWOODS	
<i>Forest - floodplain wet-mesic</i>	Wet-mesic Floodplain Forest	SG		2010	WOLF CREEK WOODS	
<i>Prairie - mesic</i>	Mesic Prairie	SG		1980		
<i>Wetland - seep circumneutral</i>	Circumneutral Seep	SG		1980		
<b>Insect Odonata</b>						
<i>Enallagma divagans</i>	turquoise bluet	SR		2004	SUGAR CREEK	
<b>Mammal</b>						
<i>Myotis sodalis</i>	Indiana Bat	SE	E	1991	1991 BRACK SURVEY SITE V	BAT SUMMER CAPTURE
<i>Myotis sodalis</i>	Indiana Bat	SE	E	1991	1991 BRACK SURVEY SITE A	BAT SUMMER CAPTURE
<i>Myotis sodalis</i>	Indiana Bat	SE	E	2010	LITTLE POTATO CREEK	BAT SUMMER CAPTURE
<i>Myotis sodalis</i>	Indiana Bat	SE	E	2010	WITHE CREEK	BAT SUMMER CAPTURE
<i>Myotis sodalis</i>	Indiana Bat	SE	E	2010	LITTLE POTATO CREEK	BAT SUMMER CAPTURE
<i>Myotis sodalis</i>	Indiana Bat	SE	E	2010	LYE CREEK	BAT SUMMER CAPTURE
<i>Taxidea taxus</i>	American Badger	SSC		1994	COUNTY ROAD 100S	
<i>Taxidea taxus</i>	American Badger	SSC		2002		

### Mollusk

Fed: E = Federal endangered; T = Federal threatened; C = Federal candidate species

State: SE = State endangered; ST= State threatened; SR = State rare; SSC = State species of special concern; SG = State significant; WL = watch list; no rank - not ranked but tracked to monitor status



Sci. Name	Com. Name	State	Fed.	Date	Site	Comments
<i>Alasmidonta viridis</i>	slippershell mussel	SSC		2018	LITTLE SUGAR CREEK	FRESH DEAD (FISHER, 2018).
<i>Lampsilis fasciola</i>	wavyrayed lampmussel	SSC		2014	SUGAR CREEK	2014: LIVE (FISHER AND DAVIS)
<i>Lampsilis fasciola</i>	wavyrayed lampmussel	SSC		2017	SUGAR CREEK	LIVE (FISHER, 2017)(FISHER AND BALES, 2007).
<i>Ptychobranchus fasciolaris</i>	Kidneyshell	SSC		2012	SUGAR CREEK	SUBFOSSIL (FISHER AND DAVIS, 2012). FRESH DEAD. (LEWIS, 1991).
<i>Ptychobranchus fasciolaris</i>	Kidneyshell	SSC		2017	SUGAR CREEK	SUBFOSSIL (FISHER, 2017).
<i>Toxolasma lividus</i>	Purple Lilliput	SSC		2007	SUGAR CREEK	WEATHERED DEAD. (FISHER AND BALES, 2007).
<i>Toxolasma lividus</i>	Purple Lilliput	SSC		2007	LITTLE POTATO CREEK	2007: WEATHERED DEAD. (FISHER AND BALES, 2009).
<i>Toxolasma lividus</i>	Purple Lilliput	SSC		2009	WALNUT FORK	2009: WEATHERED DEAD. (FISHER, 2012).
<i>Toxolasma lividus</i>	Purple Lilliput	SSC		2017	SUGAR CREEK	SUBFOSSIL (FISHER, 2017).
<i>Toxolasma lividus</i>	Purple Lilliput	SSC		2018	LITTLE SUGAR CREEK	WEATHERED DEAD (FISHER, 2018).
<i>Villosa iris</i>	Rainbow	SSC		2018	LITTLE SUGAR CREEK	WEATHERED DEAD (FISHER, 2018).

### Reptile

<i>Clonophis kirtlandii</i>	Kirtland's snake	SE		1892		
<i>Terrapene carolina carolina</i>	woodland box turtle	SSC		2013	CALVERT AND PORTER ADDITION NATURE PRESERVE	

### Vascular Plant

<i>Chelone obliqua</i> var. <i>speciosa</i>	rose turtlehead	WL		1929		
<i>Cypripedium parviflorum</i> var.	small yellow lady's-slipper	ST		1932		

Fed: E = Federal endangered; T = Federal threatened; C = Federal candidate species

State: SE = State endangered; ST= State threatened; SR = State rare; SSC = State species of special concern; SG = State significant; WL = watch list; no rank - not ranked but tracked to monitor status

Sci. Name	Com. Name	State	Fed.	Date	Site	Comments
<i>makasin</i>						
<i>Juglans cinerea</i>	butternut	ST		1972	CASTER WOODS	
<i>Poa paludigena</i>	bog bluegrass	ST		1988		

Fed: E = Federal endangered; T = Federal threatened; C = Federal candidate species

State: SE = State endangered; ST= State threatened; SR = State rare; SSC = State species of special concern; SG = State significant; WL = watch list; no rank - not ranked but tracked to monitor status

# Appendix C1: Water Chemistry Data



Date	SITE	Time	Temp (C)	DO	pH	TURB	Conductivity	Phos.	Nitrate	TSS	E.coli (MPN)
1/26/22	1	1:53	4.8	10.7	8.3	8.4	1151	0.077	3.96	12	1413.6
2/23/22	1	2:39	3.8	10.2	7.99	20.75	671	0.418	2.29	14	448.4
3/23/22	1	13:29	11.8	10.6	7.41	72	321	1.32	4.06	68	1011.2
4/27/22	1	13:28	13.9	10.5	8.14	2.76	551	0.194	4.83	3	71.4
5/24/22	1	13:12	20.4	9.1	8.34	2.41	631	0.191	4.24	3	101
6/27/22	1	13:00	23.8	6.2	8.2	2.13	693	0.222	4.87	2	280.9
7/25/22	1	12:30	24.4	5	7.88	5.17	484	1.46	2.39	3	2419.6
8/22/22	1	13:55	25	8.3	8.14	2.54	1064	4.29	9.51	3	48
9/28/22	1	12:32	16.8	7.5	8.29	1.83	1402	0.618	10.1	4	78.5
10/24/22	1	13:32	19.4	10.9	8.36	2.15	1568	0.199	5.2	4	93.3
11/16/22	1	12:56	8.6	10.3	8.16	0	1386	0.011	9.4	3	2419.6
12/21/22	1	12:46	7.1	10.2	8.17	7.3	1278	0.06	6.15	5	866.4
1/26/22	2	1:19	3	10.8	8.58	2.11	704	0.081	1.98	4	2
2/23/22	2	2:11	3.1	10.2	8.21	38.7	428	0.909	3.32	44	156.5
3/23/22	2	13:02	10.2	8.2	7.63	156	234	2.08	4.07	164	2419.6
4/27/22	2	13:00	12.3	7.4	8.24	3.69	393	0.085	3.72	6	79.4
5/24/22	2	12:48	19.1	7.9	8.19	2.51	411	0.196	2.89	9	34.5
6/27/22	2	12:37	22.5	6.3	8.2	4.46	415	0.892	1.81	3	178.2
7/25/22	2	11:50	24.5	11.4	8.02	5.8	404	0.426	0.617	4	517.2
8/22/22	2	13:36	23.5	7.5	8.2	3.88	548	0.284	0.222	4	172.5
9/28/22	2	11:41	13.2	10.6	8.26	1.7	560	0.01	0.425	5	218.7
10/24/22	2	13:01	16.4	7.2	8.02	2.75	638	0.045	0.211	6	75.4
11/16/22	2	12:27	4.5	11.3	8.32	0.66	690	0.012	0.4	3	48.3
12/21/22	2	11:51	1.5	11.7	8.44	0.27	513	0.034	0.406	1	47.1
1/26/22	3	1:12	5.5	11.8	8.45	2.59	918	0.037	5.14	6	24.4
2/23/22	3	2:05	2.5	11.2	8.28	28.09	583	0.504	2.95	37	304.6
3/23/22	3	12:55	11.2	9.6	7.66	122	304	1.7	3.66	161	2419.6
4/27/22	3	12:53	13.2	10.7	8.35	2.32	369	0.29	3.99	2	290.6
5/24/22	3	12:42	19.3	9	8.23	0.23	545	0.031	2.84	5	100.5
6/27/22	3	12:31	23.4	6.3	8.26	1.68	568	0.622	1.9	1	277.8
7/25/22	3	11:40	24.5	5.1	8.11	19	233	0.813	1.28	17	2419.6
8/22/22	3	13:30	22.7	8.5	8.39	0.91	1072	1.22	3.71	3	235.9

Date	SITE	Time	Temp(C)	DO	pH	TURB	Conductivity	Phos.	Nitrate	TSS	E.coli (MPN)
9/28/22	3	11:36	12.9	7	8.34	0	819	0.287	1.87	2	248.9
10/24/22	3	12:55	17.4	10	8.15	1.03	1133	0.131	2.03	2	32.7
11/16/22	3	12:24	5	10.2	8.45	0.29	1267	0.002	4.5	2	70.7
12/21/22	3	11:46	2.1	11	8.42	1.16	997	0.007	2.55	6	67.7
1/26/22	4	12:34	3.1	11.9	8.51	1.54	711	0.168	3.36	9	14.3
2/23/22	4	1:51	2	11	8.2	23.99	488	0.581	3.33	21	98.5
3/23/22	4	11:54	10.8	11.1	7.61	144	220	1.99	5.51	127	870.4
4/27/22	4	12:20	12.2	9.4	8.15	1.59	360	0.305	3.71	4	206.4
5/24/22	4	11:44	17.1	8.2	8.08	1.2	418	0.225	3.32	3	196.8
6/27/22	4	11:48	20.8	6.4	8.09	3.15	415	0.25	2.47	4	579.4
7/25/22	4	11:15	22.8	5.1	7.9	3.62	414	0.207	0.978	3	547.5
8/22/22	4	11:45	21.6	5.3	7.88	3.42	550	0.25	0.752	3	816.4
9/28/22	4	11:23	12.7	10.6	8.14	2.09	546	0.313	0.189	4	26.9
10/24/22	4	12:05	16.6	5.9	7.83	1.47	648	0.044	0.567	2	52.1
11/16/22	4	11:44	4.7	11.1	8.01	0	666	0.039	0.863	3	28.2
12/21/22	4	11:33	2.7	10.2	8.22	0	638	0.02	0.915	4	27.5
1/26/22	5	9:32	3.5	11.9	8.61	2.45	772	0.076	3.71	5	11
2/23/22	5	10:14	1.2	7.2	8.06	55	507	0.85	4.64	58	365.4
3/23/22	5	9:45	10.6	9.2	7.76	181	272	2.19	3.12	250	2419.6
4/27/22	5	9:54	11	9	8.19	2.87	370	0.308	3.67	4	93.4
5/24/22	5	10:01	18.6	7.6	8.17	2.15	436	0.258	2.74	5	30.1
6/27/22	5	9:49	23	6.1	8.22	2.31	419	0.281	1.82	6	251
7/25/22	5	8:45	23.6	6.3	8.21	5.41	406	0.203	0.801	7	135.4
8/22/22	5	9:52	21.8	5.7	8.28	5.31	628	0.024	0.314	3	78.4
9/28/22	5	9:40	12.5	9.1	8.38	1.72	700	0.098	1.07	3	43.2
10/24/22	5	10:04	15.2	6.7	8.09	0.31	796	0.011	0.752	2	24.1
11/16/22	5	9:50	3.7	11.4	8.32	0	790	0.033	0.224	3	58.4
12/21/22	5	9:44	0.7	9.1	8.45	0	734	0.043	2.24	3	23.3
1/26/22	6	frozen									
2/23/22	6	11:42	3	8.8	7.88	43.82	427	0.934	4.3	52	218.7
3/23/22	6	12:05	10.3	9	7.69	177	248	2.38	5.12	192	2419.6
4/27/22	6	12:03	12.7	10.3	8.19	2.71	412	0.247	3.67	2	77.1

Date	SITE	Time	Temp(C)	DO	pH	TURB	Conductivity	Phos.	Nitrate	TSS	E.coli (MPN)
5/24/22	6	11:29	17.7	7.8	8.1	1.73	424	0.122	2.88	6	52.9
6/27/22	6	11:37	21.3	6.3	8.17	3.22	448	0.132	1.84	5	344.8
7/25/22	6	11:00	23.6	4.3	8.06	11.78	494	0.623	1.14	11	1986.3
8/22/22	6	13:00	22.2	7.2	8.15	4.92	720	0.027	1.14	5	478.6
9/28/22	6	11:13	13.2	8.4	8.19	1.2	786	1.16	2.01	4	238.2
10/24/22	6	11:55	16.1	6.4	7.95	9.25	837	0.126	1.7	19	56.8
11/16/22	6	11:30	4.2	11.9	8.11	0.26	897	0.019	1.69	3	54.8
12/21/22	6	11:21	2.1	11.2	8.3	0.42	770	0.028	1.44	4	34.1
1/26/22	7	11:57	2.3	11.6	8.17	3.68	707	0.047	4.64	1	29.3
2/23/22	7	1:34	2.8	8.4	7.99	25.6	450	0.517	5.57	30	198.6
3/23/22	7	11:38	10.7	7	7.45	97	234	1.64	4.83	117	456.9
4/27/22	7	11:51	12	11.1	8.14	2.28	375	0.165	6.63	1	118.7
5/24/22	7	11:16	16.8	8.7	8.03	0.47	437	0.223	4.23	7	360.9
6/27/22	7	11:29	21.2	6.1	7.93	0.69	432	0.45	1.9	2	304.4
7/25/22	7	10:45	23.3	6.4	7.94	2.43	433	0.32	1.14	2	179.3
8/22/22	7	13:15	21.8	5.5	8	1.86	562	2.15	0.845	2	648.8
9/28/22	7	11:04	12.7	7.3	8.09	2.04	1619	5	0.942	3	146.7
10/24/22	7	11:45	15.8	6.4	7.72	2.72	672	0.115	0.296	3	133.3
11/16/22	7	11:24	5.2	11	8.03	0.22	680	0.017	0.611	3	2419.6
12/21/22	7	11:13	2.4	5.9	8.1	17.36	741	0.178	0.719	67	920.8
1/26/22	8	10:45	3.1	11.1	8.12	2.62	730	0.206	4.53	2	25.8
2/23/22	8	11:20	2.4	8.4	7.84	21.28	498	0.699	5.81	23	162.4
3/23/22	8	10:50	10	6.2	7.35	77	260	1.6	6.4	73	686.7
4/27/22	8	11:16	11.1	11.7	7.89	2.41	418	0.215	9.38	2	228.2
5/24/22	8	10:55	16.1	8	7.95	1.45	416	0.274	5.87	3	275.5
6/27/22	8	10:58	22	6.3	7.96	1.29	444	0.133	1.06	1	167.4
7/25/22	8	10:03	23.4	5.5	7.88	4.12	469	1.33	0.425	5	201.4
8/22/22	8	10:55	22.1	10.6	8.11	14.54	522	1.25	0.378	109	2419.6
9/28/22	8	10:25	11.8	10.1	7.88	6.72	659	0.005	0.152	8	248.1
10/24/22	8	11:25	14.8	7	7.86	8.53	695	0.012	0.205	14	325.5
11/16/22	8	10:46	4.8	10.9	7.84	2.16	727	0.003	0.261	5	23.6
12/21/22	8	10:37	3.7	10.1	8.11	4.44	627	0.014	0.491	6	12.2

Date	SITE	Time	Temp(C)	DO	pH	TURB	Conductivity	Phos.	Nitrate	TSS	E.coli(MPN)
1/26/22	9	10:20	4.7	10.6	8.48	1.31	695	0.121	10.1	2	104.3
2/23/22	9	10:53	0.5	7	7.89	44.46	463	0.875	7.45	39	378.4
3/23/22	9	10:28	9.3	11.8	7.22	50	287	0.599	9.62	37	1119.7
4/27/22	9	10:54	10.2	10.7	7.93	2.1	376	0.199	8.23	3	66.3
5/24/22	9	10:33	15.5	11.5	8.07	2.63	436	0.337	7.73	3	48.1
6/27/22	9	10:22	19.5	5.7	7.92	1.18	438	0.086	3.59	5	222.4
7/25/22	9	9:30	23	4.2	7.85	5.41	448	1.79	0.528	5	248.1
8/22/22	9	10:23	19.1	7.3	7.94	4.65	536	0.129	0.204	1	48
9/28/22	9	10:02	11.5	8.5	7.89	0.77	569	0.027	0.158	6	21.1
10/24/22	9	10:34	15.5	5.8	7.75	22.23	583	0.129	0.235	8	10.2
11/16/22	9	10:21	4.7	9.5	7.99	20.75	588	0.11	0.321	6	62.1
12/21/22	9	10:16	8.2	11.6	7.26	3.67	732	0.015	0.364	3	20.3
1/26/22	10	9:49	1.8	11.5	8.18	0.4	802	0.169	4.31	2	143.9
2/23/22	10	10:36	2.4	11.3	8.02	21.75	608	0.355	5.07	22	37.3
3/23/22	10	10:06	9.1	11.1	7.27	41.08	290	0.685	5.37	43	172.3
4/27/22	10	10:41	10.2	11.8	8.01	0.33	417	0.248	5.34	2	7.3
5/24/22	10	10:17	14.7	9.7	8.09	0.07	451	0.146	7.3	4	48.7
6/27/22	10	10:06	19.3	7.2	7.8	2.55	444	0.057	3.05	10	145.5
7/25/22	10	9:10	22.6	6.4	7.86	5.3	434	2.26	0.56	6	2419.6
8/22/22	10	dry									
9/28/22	10	dry									
10/24/22	10	dry									
11/16/22	10	dry									
12/21/22	10	frozen									
1/26/22	11	9:08	4.2	9.1	8.37	4.73	687	0.134	3.99	2	23.7
2/23/22	11	9:32	-0.1	10.4	7.78	44.23	525	1.21	5.49	42	107.6
3/23/22	11	9:25	9.7	11.5	7.57	84	262	1.44	5.29	83	172
4/27/22	11	9:28	9	10.1	8.09	8.56	415	0.067	7.02	8	365.4
5/24/22	11	9:31	15.2	9.1	8.23	0.33	420	0.19	4.77	6	76.3
6/27/22	11	9:30	19.7	6.5	8.24	0.32	418	0.121	1.82	2	167
7/25/22	11	8:25	23.2	5.4	8.21	2.45	424	0.822	0.652	4	290.9
8/22/22	11	9:40	21.1	5.2	8.28	0.79	506	0.064	0.273	3	128.1



Date	SITE	Time	Temp(C)	DO	pH	TURB	Conductivity	Phos.	Nitrate	TSS	E.coli(MPN)
9/28/22	11	9:23	12.6	6	8.37	0.66	570	0.16	0.157	2	186
10/24/22	11	9:37	14	6.8	8.05	0.02	638	0.17	0.279	2	93.3
11/16/22	11	9:35	2.9	10.9	8.36	14.7	690	0.05	0.235	5	48.3
12/21/22	11	9:26	0.8	8.4	8.42	0.13	740	0.018	0.798	2	14.5
1/26/22	12	8:49	-2.7	11.2	8.81	3.02	270	0.071	0.879	5	10.1
2/23/22	12	9:20	2.6	11.1	8.39	60	383	1.01	3.98	80	1
3/23/22	12	9:10	11.1	9	7.85	197	297	2.39	3.05	179	2419.6
4/27/22	12	9:13	10	9.5	8.15	4.39	378	0.141	3.49	4	80.5
5/24/22	12	9:09	15.7	7.3	8.27	2.1	426	0.069	2.71	2	275.5
6/27/22	12	9:20	20.4	6	8.27	3.51	472	0.109	1.87	2	56.6
7/25/22	12	8:09	23.3	5.2	8.13	8.79	416	0.323	0.878	9	387.3
8/22/22	12	9:23	21.5	6.2	8.21	5.2	611	0.17	0.327	4	162.4
9/28/22	12	9:12	12.4	5	8.39	1.96	665	0.108	0.581	2	35.5
10/24/22	12	9:21	14.1	6.9	8.21	0.14	752	0.044	0.473	3	46.4
11/16/22	12	9:22	4	11.9	8.38	0.18	747	0.039	0.232	6	70.7
12/21/22	12	9:15	1.2	8	8.55	0	729	0.056	1.14	2	186
1/26/22	13	8:30	-1.1	11.7	8.79	2.16	235	0.069	4.42	4	2
2/23/22	13	8:36	2.3	11.3	8.28	66	407	1.12	4.68	75	259.5
3/23/22	13	8:36	10.2	8.6	7.83	152	309	1.93	3.47	248	2419.6
4/27/22	13	8:54	9.5	11.2	8.18	6.19	421	0.066	4.45	9	258.9
5/24/22	13	8:51	15.9	7.6	8.15	2.29	416	0.244	3.08	3	38.9
6/27/22	13	8:58	21.5	4.6	8.25	1.15	552	0.291	1.97	3	960.6
7/25/22	13	7:48	23.3	4.4	8.14	6.7	431	0.051	1.07	2	238.2
8/22/22	13	8:56	21.6	7.6	8.13	4.19	587	0.249	0.551	4	77.1
9/28/22	13	8:47	12.6	6.4	8.28	3.57	649	0.161	0.527	3	44.1
10/24/22	13	9:02	13.8	7.2	8.18	1.43	684	0.018	0.391	2	27.2
11/16/22	13	8:59	4.1	10.4	8.27	0	765	0.045	0.377	5	28.2
12/21/22	13	8:53	1.4	11	8.49	0.03	713	0.053	1.15	2	11
1/26/22	14	8:14	5.3	10.3	8.32	2.01	807	0.012	4.58	2	19.3
2/23/22	14	8:15	2.4	8.4	8.24	37.82	552	0.612	3.95	45	224.7
3/23/22	14	8:13	11	9.4	8.95	206	257	2.1	3.17	208	2419.6
4/27/22	14	8:18	10.8	11	8.24	0.4	454	0.124	2.42	8	83



# Appendix C2: Fish Species

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Table 1. Fish species counts at stream sample sites in the Upper Sugar Creek (USC) watershed in July and August 2022. Fish Index of Biotic Integrity (IBI) scores are provided for each site. Fishes were released after identification. Fish were collected using an ETS ABP-3 backpack electrofisher. All samples were from sites in Montgomery, Boone, and Clinton Counties, Indiana.

Species		Study Site															
Common Name	Scientific Name	USC1	USC2	USC3	USC4	USC5	USC6	USC7	USC8	USC9	USC10	USC11	USC12	USC13	USC14	USC15	USC16
Central Stoneroller	<i>Campostoma anomalum</i>	39		177	165	21		139	99	4		280	82		64	91	30
Spotfin Shiner	<i>Cyprinella spiloptera</i>	3	19		6	18	20	5		1		11	44	32	6	6	
Bigeye Chub	<i>Hybopsis amblops</i>		7	4	13	3						26	53	1	4	1	
Striped Shiner	<i>Luxilus chrysocephalus</i>		4		10	13		16	2			25	14	6	35	32	1
Redfin Shiner	<i>Lythrurus umbratilis</i>		1		4			4	2	8							1
Hornyhead Chub	<i>Nocomis biguttatus</i>												3		9		
River Chub	<i>Nocomis micropogon</i>												3				
Silverjaw Minnow	<i>Notropis bucatius</i>			37	15	22	15		14	1		5	15				10
Silver Shiner	<i>Notropis photogenis</i>		1	1		4		1				44	19		7	4	
Rosyface Shiner	<i>Notropis rubellus</i>		3	9	3	10	1					3	5		1		
Sand Shiner	<i>Notropis stramineus</i>		18	109	60	13	40	16		16		21	43	1		7	5
Suckermouth Minnow	<i>Phenacobius mirabilis</i>													6			
Bluntnose Minnow	<i>Pimephales notatus</i>		4		19	3		30	76	44		33	11		4	4	26
Blacknose Dace	<i>Rhinichthys atratulus</i>							6									19
Creek Chub	<i>Semotilus atromaculatus</i>	5	1	1	60	1		79	69	14					2	4	58
River Carpsucker	<i>Carpionodes carpio</i>												1				
White Sucker	<i>Catostomus commersonii</i>	2	5		16		1	41	5				3		1	1	20
Western Creek Chubsucker	<i>Erimyzon oblongus</i>									6							
Northern Hog Sucker	<i>Hypentelium nigricans</i>		11	67	26	9		1				9	17	2	4	13	
Golden Redhorse	<i>Moxostoma erythrurum</i>		8		2	1	1	20					3		7	3	
Shorthead Redhorse	<i>Moxostoma macrolepidotum</i>		8										1			5	
Yellow Bullhead	<i>Ameiurus natalis</i>	7		2	1	2	1	1				7			1		
Stonecat	<i>Noturus flavus</i>			3		17							6				
Tadpole Madtom	<i>Noturus gyrinus</i>									10	1						
Blackstripe Topminnow	<i>Fundulus notatus</i>		1		1			2	2	29	1					1	
Grass Pickerel	<i>Esox americanus</i>	1	2							20	24	1	2	3			
Mottled Sculpin	<i>Cottus bairdii</i>								12			15			20	9	2
Greenside Darter	<i>Etheostoma blennioides</i>	21	2	16	10	6			6	1		70	8	14	6	5	
Rainbow Darter	<i>Etheostoma caeruleum</i>	37	1	13	10	13		10				40	3		18	19	
Fantail Darter	<i>Etheostoma flabellare</i>		1	3	10	1						2			8		
Johnny Darter	<i>Etheostoma nigrum</i>	4	9		13	1		13	17	2			4		11	9	75
Orangethroat Darter	<i>Etheostoma spectabile</i>			1	10			2	39	15		11	7		42	5	11
Rock Bass	<i>Ambloplites rupestris</i>	3	13	8	8	18	3		18			3		18	9	18	
Green Sunfish	<i>Lepomis cyanellus</i>	36	4	8	1	2	1					1		3	4		2
Bluegill	<i>Lepomis macrochirus</i>	20	13		2	3							9		1		
Longear Sunfish	<i>Lepomis megalotis</i>	1	38	10	11	23	65	28	63	23			47	44	5	13	
Smallmouth Bass	<i>Micropterus dolomieu</i>		4	15	1	11	5	1				13	19	3	3	1	
Spotted Bass	<i>Micropterus punctulatus</i>						1										
Largemouth Bass	<i>Micropterus salmoides</i>	1	5		1										1		
Fish IBI Score		46	54	50	48	54	42	44	44	44	32	46	52	40	54	50	42



# Appendix C3: Macroinvertebrates List

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## Appendix C4: QHEI Data

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Stream & Location: Upper Sugar Creek Site 1

RM: Date: 07/15/22

River Code: STORET #: Scorers Full Name & Affiliation: Reuben R. Goforth, PhD, Consultant Lat/ Long.: 18 Office verified location

1) SUBSTRATE Check ONLY Two substrate TYPE BOXES, estimate % or note every type present. Check ONE (Or 2 & average) ORIGIN QUALITY. Includes categories like BLDR/SLABS, BOULDER, COBBLE, GRAVEL, SAND, BEDROCK, POOL RIFFLE, OTHER TYPES, LIMESTONE, TILLS, WETLANDS, SANDSTONE, RIP/RAP, LACUSTURINE, SHALE, COAL FINES, HEAVY, MODERATE, NORMAL, FREE, EXTENSIVE, NONE.

2) INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts. Includes categories like UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, ROOTMATS, POOLS > 70cm, ROOTWADS, BOULDERS, OXBOWS, BACKWATERS, AQUATIC MACROPHYTES, LOGS OR WOODY DEBRIS.

3) CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average). Includes categories like SINUOSITY, DEVELOPMENT, CHANNELIZATION, STABILITY. Includes handwritten notes: 'Curly leaf, Floating leaf, Burdock, EWM? Algae'.

4) BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average). Includes categories like EROSION, RIPARIAN WIDTH, FLOOD PLAIN QUALITY, CONSERVATION TILLAGE, URBAN OR INDUSTRIAL, MINING / CONSTRUCTION.

5) POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH CHANNEL WIDTH CURRENT VELOCITY Recreation Potential Primary Contact Secondary Contact. Includes categories like POOL WIDTH > RIFFLE WIDTH, TORRENTIAL, SLOW, VERY FAST, INTERSTITIAL, FAST, INTERMITTENT, MODERATE, EDDIES.

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: RIFFLE DEPTH RUN DEPTH RIFFLE / RUN SUBSTRATE RIFFLE / RUN EMBEDDEDNESS. Includes categories like BEST AREAS > 10cm, MAXIMUM > 50cm, STABLE, MOD. STABLE, UNSTABLE, NONE, LOW, MODERATE, EXTENSIVE.

6) GRADIENT (n/m) DRAINAGE AREA (mi^2) %POOL: %GLIDE: %RUN: %RIFFLE: Gradient Maximum 10. Includes handwritten notes: 'Consider I-65 corridor to be urban/industrial'.



Stream & Location: Upper Sugar Creek Site 2

RM: \_\_\_\_\_ Date: 07/15/22

River Code: \_\_\_\_\_ STORET #: \_\_\_\_\_ Scorers Full Name & Affiliation: Reuben R. Goforth, PhD, Consultant  
Office verified location  Lat./ Long.: 18 (NAD 83 - decimal)

**1] SUBSTRATE** Check ONLY Two substrate TYPE BOXES; estimate % or note every type present

<b>BEST TYPES</b>	<b>POOL RIFFLE</b>	<b>OTHER TYPES</b>	<b>POOL RIFFLE</b>	<b>ORIGIN</b>	<b>QUALITY</b>
<input type="checkbox"/> BLDR / SLABS [10]	<input checked="" type="checkbox"/>	<input type="checkbox"/> HARDPAN [4]	<input checked="" type="checkbox"/>	<input type="checkbox"/> LIMESTONE [1]	<input type="checkbox"/> HEAVY [-2]
<input type="checkbox"/> BOULDER [9]	<input checked="" type="checkbox"/>	<input type="checkbox"/> DETRITUS [3]	<input checked="" type="checkbox"/>	<input type="checkbox"/> TILLS [1]	<input type="checkbox"/> MODERATE [-1]
<input checked="" type="checkbox"/> COBBLE [8]	<input checked="" type="checkbox"/>	<input type="checkbox"/> MUCK [2]	<input checked="" type="checkbox"/>	<input type="checkbox"/> WETLANDS [0]	<input type="checkbox"/> NORMAL [0]
<input checked="" type="checkbox"/> GRAVEL [7]	<input checked="" type="checkbox"/>	<input type="checkbox"/> SILT [2]	<input checked="" type="checkbox"/>	<input type="checkbox"/> HARDPAN [0]	<input type="checkbox"/> FREE [1]
<input checked="" type="checkbox"/> SAND [6]	<input checked="" type="checkbox"/>	<input type="checkbox"/> ARTIFICIAL [0]	<input checked="" type="checkbox"/>	<input type="checkbox"/> SANDSTONE [0]	<input type="checkbox"/> EXTENSIVE [-2]
<input type="checkbox"/> BEDROCK [5]	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/> RIP/RAP [0]	<input type="checkbox"/> MODERATE [-1]

Check ONE (Or 2 & average)

NUMBER OF BEST TYPES:  4 or more [2] sludge from point-sources)  3 or less [0]

Comments \_\_\_\_\_

Substrate 12 Maximum 20

**2] INSTREAM COVER** Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

<input checked="" type="checkbox"/> UNDERCUT BANKS [1]	<input checked="" type="checkbox"/> POOLS > 70cm [2]	<input checked="" type="checkbox"/> OXBOWS, BACKWATERS [1]	<b>AMOUNT</b>
<input checked="" type="checkbox"/> OVERHANGING VEGETATION [1]	<input checked="" type="checkbox"/> ROOTWADS [1]	<input checked="" type="checkbox"/> AQUATIC MACROPHYTES [1]	Check ONE (Or 2 & average)
<input checked="" type="checkbox"/> SHALLOWS (IN SLOW WATER) [1]	<input checked="" type="checkbox"/> BOULDERS [1]	<input checked="" type="checkbox"/> LOGS OR WOODY DEBRIS [1]	<input type="checkbox"/> EXTENSIVE >75% [11]
<input checked="" type="checkbox"/> ROOTMATS [1]			<input checked="" type="checkbox"/> MODERATE 25-75% [7]
			<input checked="" type="checkbox"/> SPARSE 5-25% [3]
			<input type="checkbox"/> NEARLY ABSENT <5% [1]

Comments \_\_\_\_\_

Cover 11 Maximum 20

**3] CHANNEL MORPHOLOGY** Check ONE in each category (Or 2 & average)

<b>SINUOSITY</b>	<b>DEVELOPMENT</b>	<b>CHANNELIZATION</b>	<b>STABILITY</b>
<input type="checkbox"/> HIGH [4]	<input type="checkbox"/> EXCELLENT [7]	<input checked="" type="checkbox"/> NONE [6]	<input type="checkbox"/> HIGH [3]
<input checked="" type="checkbox"/> MODERATE [3]	<input type="checkbox"/> GOOD [5]	<input type="checkbox"/> RECOVERED [4]	<input type="checkbox"/> MODERATE [2]
<input type="checkbox"/> LOW [2]	<input type="checkbox"/> FAIR [3]	<input type="checkbox"/> RECOVERING [3]	<input type="checkbox"/> LOW [1]
<input type="checkbox"/> NONE [1]	<input type="checkbox"/> POOR [1]	<input type="checkbox"/> RECENT OR NO RECOVERY [1]	

Comments 3 1 6 2

Channel 12 Maximum 20

**4] BANK EROSION AND RIPARIAN ZONE** Check ONE in each category for EACH BANK (Or 2 per bank & average)

<b>EROSION</b>	<b>RIPARIAN WIDTH</b>	<b>FLOOD PLAIN QUALITY</b>
<input type="checkbox"/> NONE / LITTLE [3]	<input type="checkbox"/> WIDE > 50m [4]	<input type="checkbox"/> FOREST, SWAMP [3]
<input checked="" type="checkbox"/> MODERATE [2]	<input type="checkbox"/> MODERATE 10-50m [3]	<input type="checkbox"/> SHRUB OR OLD FIELD [2]
<input type="checkbox"/> HEAVY / SEVERE [1]	<input type="checkbox"/> NARROW 5-10m [2]	<input type="checkbox"/> RESIDENTIAL, PARK, NEW FIELD [1]
	<input type="checkbox"/> VERY NARROW < 5m [1]	<input type="checkbox"/> FENCED PASTURE [1]
	<input type="checkbox"/> NONE [0]	<input type="checkbox"/> OPEN PASTURE, ROWCROP [0]

Comments 2 4

Riparian 6 Maximum 10

**5] POOL / GLIDE AND RIFFLE / RUN QUALITY**

<b>MAXIMUM DEPTH</b>	<b>CHANNEL WIDTH</b>	<b>CURRENT VELOCITY</b>	<b>Recreation Potential</b>
Check ONE (ONLY)	Check ONE (Or 2 & average)	Check ALL that apply	<b>Primary Contact</b>
<input type="checkbox"/> > 1m [6]	<input type="checkbox"/> POOL WIDTH > RIFFLE WIDTH [2]	<input type="checkbox"/> TORRENTIAL [-1]	<b>Secondary Contact</b>
<input checked="" type="checkbox"/> 0.7-1m [4]	<input type="checkbox"/> POOL WIDTH = RIFFLE WIDTH [1]	<input type="checkbox"/> SLOW [1]	(circle one and comment on back)
<input type="checkbox"/> 0.4-0.7m [2]	<input type="checkbox"/> POOL WIDTH < RIFFLE WIDTH [0]	<input type="checkbox"/> VERY FAST [1]	
<input type="checkbox"/> 0.2-0.4m [1]		<input type="checkbox"/> FAST [1]	
<input type="checkbox"/> < 0.2m [0]		<input checked="" type="checkbox"/> MODERATE [1]	

Comments \_\_\_\_\_

Pool / Current 7 Maximum 12

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average)

<b>RIFFLE DEPTH</b>	<b>RUN DEPTH</b>	<b>RIFFLE / RUN SUBSTRATE</b>	<b>RIFFLE / RUN EMBEDDEDNESS</b>
<input checked="" type="checkbox"/> BEST AREAS > 10cm [2]	<input type="checkbox"/> MAXIMUM > 50cm [2]	<input type="checkbox"/> STABLE (e.g., Cobble, Boulder) [2]	<input type="checkbox"/> NONE [2]
<input type="checkbox"/> BEST AREAS 5-10cm [1]	<input type="checkbox"/> MAXIMUM < 50cm [1]	<input type="checkbox"/> MOD. STABLE (e.g., Large Gravel) [1]	<input type="checkbox"/> LOW [1]
<input type="checkbox"/> BEST AREAS < 5cm [metric=0]		<input type="checkbox"/> UNSTABLE (e.g., Fine Gravel, Sand) [0]	<input type="checkbox"/> MODERATE [0]
			<input checked="" type="checkbox"/> EXTENSIVE [-1]

Comments \_\_\_\_\_

Riffle / Run 3 Maximum 8

**6] GRADIENT** (ft/mi)  VERY LOW - LOW [2-4] % POOL:    % GLIDE:   

**DRAINAGE AREA** (mi<sup>2</sup>)  MODERATE [6-10] % RUN:    % RIFFLE:   

HIGH - VERY HIGH [10-6] Gradient 4 Maximum 10



Stream & Location: Upper Sugar Creek Site 3

RM: Date: 07/15/22

River Code: STORET #: Scorers Full Name & Affiliation: Reuben R. Goforth, PhD, Consultant Lat./ Long.: 18 Office verified location

1) SUBSTRATE Check ONLY Two substrate TYPE BOXES, estimate % or note every type present. BEST TYPES: BDR/SLABS [10], BOULDER [9], COBBLE [8], GRAVEL [7], SAND [6], BEDROCK [5]. OTHER TYPES: HARDPAN [4], DETRITUS [3], MUCK [2], SILT [2], ARTIFICIAL [0]. ORIGIN: LIMESTONE [1], TILLS [1], WETLANDS [0], HARDPAN [0], SANDSTONE [0], RIP/RAP [0], LACUSTURINE [0], SHALE [-1], COAL FINES [-2]. QUALITY: HEAVY [-2], MODERATE [-1], NORMAL [0], FREE [1], EXTENSIVE [-2], MODERATE [-1], NORMAL [0], NONE [1].

2) INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts. UNDERCUT BANKS [1], OVERHANGING VEGETATION [1], SHALLOWS (IN SLOW WATER) [1], ROOTMATS [1]. POOLS > 70cm [2], ROOTWADS [1], BOULDERS [1]. OXBOWS, BACKWATERS [1], AQUATIC MACROPHYTES [1], LOGS OR WOODY DEBRIS [1]. AMOUNT: EXTENSIVE >75% [11], MODERATE 25-75% [7], SPARSE 5-25% [3], NEARLY ABSENT <5% [1].

3) CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average). SINUOSITY: HIGH [4], MODERATE [3], LOW [2], NONE [1]. DEVELOPMENT: EXCELLENT [7], GOOD [5], FAIR [3], POOR [1]. CHANNELIZATION: NONE [6], RECOVERED [4], RECOVERING [3], RECENT OR NO RECOVERY [1]. STABILITY: HIGH [3], MODERATE [2], LOW [1].

4) BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average). EROSION: NONE/LITTLE [3], MODERATE [2], HEAVY/SEVERE [1]. RIPARIAN WIDTH: WIDE > 50m [4], MODERATE 10-50m [3], NARROW 5-10m [2], VERY NARROW < 5m [1], NONE [0]. FLOOD PLAIN QUALITY: FOREST, SWAMP [3], SHRUB OR OLD FIELD [2], RESIDENTIAL, PARK, NEW FIELD [1], FENCED PASTURE [1], OPEN PASTURE, ROWCROP [0]. CONSERVATION TILLAGE [1], URBAN OR INDUSTRIAL [0], MINING / CONSTRUCTION [0].

5) POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH: >1m [5], 0.7-1m [4], 0.4-0.7m [2], 0.2-0.4m [1], < 0.2m [0]. CHANNEL WIDTH: POOL WIDTH > RIFFLE WIDTH [2], POOL WIDTH = RIFFLE WIDTH [1], POOL WIDTH < RIFFLE WIDTH [0]. CURRENT VELOCITY: TORRENTIAL [-1], VERY FAST [1], FAST [1], MODERATE [1], SLOW [1], INTERSTITIAL [-1], INTERMITTENT [-2], EDDIES [1].

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: RIFFLE DEPTH: BEST AREAS > 10cm [2], BEST AREAS 5-10cm [1], BEST AREAS < 5cm [metric=0]. RUN DEPTH: MAXIMUM > 50cm [2], MAXIMUM < 50cm [1]. RIFFLE / RUN SUBSTRATE: STABLE (e.g., Cobble, Boulder) [2], MOD. STABLE (e.g., Large Gravel) [1], UNSTABLE (e.g., Fine Gravel, Sand) [0]. RIFFLE / RUN EMBEDDEDNESS: NONE [2], LOW [1], MODERATE [0], EXTENSIVE [-1].

6) GRADIENT (ft/mi) VERY LOW - LOW [2-4], MODERATE [6-10], HIGH - VERY HIGH [10-6]. DRAINAGE AREA (mi^2). %POOL, %GLIDE, %RUN, %RIFFLE. Gradient Maximum 10.



Stream & Location: Upper Sugar Creek Site 4

RM: Date: 07/15/22

Scorer's Full Name & Affiliation: Reuben R. Goforth, PhD, Consultant

River Code: STORET #: Lat/Long: 18 Office verified location

1) SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present

Substrate assessment grid with categories: BEST TYPES, OTHER TYPES, ORIGIN, and QUALITY. Includes checkboxes for various substrate types and a final score of 12.

2) INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

Instream cover assessment grid with categories: UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, POOLS, ROOTWADS, BOULDERS, OXBOWS, BACKWATERS, AQUATIC MACROPHYTES, LOGS OR WOODY DEBRIS. Includes checkboxes and a final score of 8.

3) CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)

Channel morphology assessment grid with categories: SINUOSITY, DEVELOPMENT, CHANNELIZATION, STABILITY. Includes checkboxes and a final score of 11.

4) BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)

Bank erosion and riparian zone assessment grid with categories: EROSION, RIPARIAN WIDTH, FLOOD PLAIN QUALITY. Includes checkboxes and a final score of 6.

5) POOL / GLIDE AND RIFFLE / RUN QUALITY

Pool / glide and riffle / run quality assessment grid with categories: MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY, Recreation Potential. Includes checkboxes and a final score of 7.

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average).

Riffle / run embeddedness assessment grid with categories: RIFFLE DEPTH, RUN DEPTH, RIFFLE / RUN SUBSTRATE, RIFFLE / RUN EMBEDDEDNESS. Includes checkboxes and a final score of 1.

6) GRADIENT (m/m) and DRAINAGE AREA (mi^2) assessment grid with categories: GRADIENT, DRAINAGE AREA, % POOL, % GLIDE, % RUN, % RIFFLE. Includes checkboxes and a final score of 4.





# Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

**QHEI Score:** 0

**Stream & Location:** Upper Sugar Creek Site 5 **RM:** \_\_\_\_\_ **Date:** 07/15/22

**River Code:** \_\_\_\_\_ **SCORET #:** \_\_\_\_\_ **Lat./ Long.:** \_\_\_\_\_ / 18 \_\_\_\_\_ **Scorer's Full Name & Affiliation:** Reuben R. Goforth, PhD, Consultant Office verified location

**1] SUBSTRATE** Check ONLY Two substrate TYPE BOXES; estimate % or note every type present. Check ONE (Or 2 & average) **QUALITY**

<b>BEST TYPES</b>	<b>POOL RIFFLE</b>	<b>OTHER TYPES</b>	<b>POOL RIFFLE</b>	<b>ORIGIN</b>	<b>QUALITY</b>
<input type="checkbox"/> BLDR /SLABS [10]	<input checked="" type="checkbox"/>	<input type="checkbox"/> HARDPAN [4]	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> LIMESTONE [1]	<input type="checkbox"/> HEAVY [-2]
<input type="checkbox"/> BOULDER [9]	<input checked="" type="checkbox"/>	<input type="checkbox"/> DETRITUS [3]	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> TILLS [1]	<input type="checkbox"/> MODERATE [-1]
<input checked="" type="checkbox"/> COBBLE [8]	<input checked="" type="checkbox"/>	<input type="checkbox"/> MUCK [2]	<input type="checkbox"/>	<input type="checkbox"/> WETLANDS [0]	<input type="checkbox"/> NORMAL [0]
<input checked="" type="checkbox"/> GRAVEL [7]	<input checked="" type="checkbox"/>	<input type="checkbox"/> SILT [2]	<input type="checkbox"/>	<input type="checkbox"/> HARDPAN [0]	<input checked="" type="checkbox"/> FREE [1]
<input type="checkbox"/> SAND [6]	<input checked="" type="checkbox"/>	<input type="checkbox"/> ARTIFICIAL [0]	<input type="checkbox"/>	<input type="checkbox"/> SANDSTONE [0]	<input type="checkbox"/> EXTENSIVE [-2]
<input type="checkbox"/> BEDROCK [5]	<input checked="" type="checkbox"/>			<input type="checkbox"/> RIP/RAP [0]	<input type="checkbox"/> MODERATE [-1]
<b>NUMBER OF BEST TYPES:</b> <input checked="" type="checkbox"/> 4 or more [2] <input type="checkbox"/> 3 or less [0]				<input type="checkbox"/> LACUSTURINE [0]	<input type="checkbox"/> NORMAL [0]
<b>Comments</b> (15) (2) (1)				<input type="checkbox"/> SHALE [-1]	<input checked="" type="checkbox"/> NONE [1]
				<input type="checkbox"/> COAL FINES [-2]	<b>Substrate</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 10px;">20</span>

(Score natural substrates; ignore sludge from point-sources)

**2] INSTREAM COVER** Indicate presence 0 to 3; 0-Absent; 1-Very small amounts or more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

<input checked="" type="checkbox"/> UNDERCUT BANKS [1]	<input checked="" type="checkbox"/> POOLS > 70cm [2]	<input checked="" type="checkbox"/> OXBOWS, BACKWATERS [1]	<b>AMOUNT</b>
<input checked="" type="checkbox"/> OVERHANGING VEGETATION [1]	<input checked="" type="checkbox"/> ROOTWADS [1]	<input checked="" type="checkbox"/> AQUATIC MACROPHYTES [1]	Check ONE (Or 2 & average)
<input checked="" type="checkbox"/> SHALLOWS (IN SLOW WATER) [1]	<input checked="" type="checkbox"/> BOULDERS [1]	<input checked="" type="checkbox"/> LOGS OR WOODY DEBRIS [1]	<input type="checkbox"/> EXTENSIVE >75% [11]
<input checked="" type="checkbox"/> ROOTMATS [1]			<input checked="" type="checkbox"/> MODERATE 25-75% [7]
<b>Comments</b>			<input type="checkbox"/> SPARSE 5-<25% [3]
			<input type="checkbox"/> NEARLY ABSENT <5% [1]
			<b>Cover</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 10px;">15</span>

**3] CHANNEL MORPHOLOGY** Check ONE in each category (Or 2 & average)

<b>SINUOSITY</b>	<b>DEVELOPMENT</b>	<b>CHANNELIZATION</b>	<b>STABILITY</b>	<b>Channel</b>
<input type="checkbox"/> HIGH [4]	<input checked="" type="checkbox"/> EXCELLENT [7]	<input checked="" type="checkbox"/> NONE [6]	<input checked="" type="checkbox"/> HIGH [3]	<span style="border: 1px solid black; border-radius: 50%; padding: 2px 10px;">18</span>
<input checked="" type="checkbox"/> MODERATE [3]	<input type="checkbox"/> GOOD [5]	<input type="checkbox"/> RECOVERED [4]	<input type="checkbox"/> MODERATE [2]	
<input type="checkbox"/> LOW [2]	<input type="checkbox"/> FAIR [3]	<input type="checkbox"/> RECOVERING [3]	<input type="checkbox"/> LOW [1]	
<input type="checkbox"/> NONE [1]	<input type="checkbox"/> POOR [1]	<input type="checkbox"/> RECENT OR NO RECOVERY [1]		

**Comments**

**4] BANK EROSION AND RIPARIAN ZONE** Check ONE in each category for EACH BANK (Or 2 per bank & average)

<b>EROSION</b>	<b>RIPARIAN WIDTH</b>	<b>FLOOD PLAIN QUALITY</b>	<b>CONSERVATION TILLAGE</b>
<input checked="" type="checkbox"/> NONE / LITTLE [3]	<input checked="" type="checkbox"/> WIDE > 50m [4]	<input type="checkbox"/> FOREST, SWAMP [3]	<input type="checkbox"/> URBAN OR INDUSTRIAL [0]
<input type="checkbox"/> MODERATE [2]	<input checked="" type="checkbox"/> MODERATE 10-50m [3]	<input type="checkbox"/> SHRUB OR OLD FIELD [2]	<input type="checkbox"/> MINING / CONSTRUCTION [0]
<input type="checkbox"/> HEAVY / SEVERE [1]	<input checked="" type="checkbox"/> NARROW 5-10m [2]	<input type="checkbox"/> RESIDENTIAL, PARK, NEW FIELD [1]	
	<input type="checkbox"/> VERY NARROW < 5m [1]	<input type="checkbox"/> FENCED PASTURE [1]	
	<input type="checkbox"/> NONE [0]	<input checked="" type="checkbox"/> OPEN PASTURE, ROWCROP [0]	

**Comments** 3 (2.5) (0)

Indicate predominant land use(s) past 100m riparian.

**Riparian** 3.5

**5] POOL / GLIDE AND RIFFLE / RUN QUALITY**

<b>MAXIMUM DEPTH</b>	<b>CHANNEL WIDTH</b>	<b>CURRENT VELOCITY</b>	<b>Recreation Potential</b>
Check ONE (ONLY)	Check ONE (Or 2 & average)	Check ALL that apply	<b>Primary Contact</b>
<input checked="" type="checkbox"/> > 1m [6]	<input type="checkbox"/> POOL WIDTH > RIFFLE WIDTH [2]	<input type="checkbox"/> TORRENTIAL [-1]	<b>Secondary Contact</b>
<input type="checkbox"/> 0.7-1m [4]	<input checked="" type="checkbox"/> POOL WIDTH = RIFFLE WIDTH [1]	<input checked="" type="checkbox"/> SLOW [1]	<small>(circle one and comment on back)</small>
<input type="checkbox"/> 0.4-0.7m [2]	<input type="checkbox"/> POOL WIDTH < RIFFLE WIDTH [0]	<input type="checkbox"/> INTERSTITIAL [-1]	
<input type="checkbox"/> 0.2-0.4m [1]		<input type="checkbox"/> INTERMITTENT [-2]	
<input type="checkbox"/> < 0.2m [0]		<input checked="" type="checkbox"/> FAST [1]	
<b>Comments</b>		<input checked="" type="checkbox"/> MODERATE [1]	<b>Pool / Current</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 10px;">11</span>
		<input type="checkbox"/> EDDIES [1]	

Indicate for reach - pools and riffles.

**Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species:** Check ONE (Or 2 & average).  NO RIFFLE [metric=0]

<b>RIFFLE DEPTH</b>	<b>RUN DEPTH</b>	<b>RIFFLE / RUN SUBSTRATE</b>	<b>RIFFLE / RUN EMBEDDEDNESS</b>
<input checked="" type="checkbox"/> BEST AREAS > 10cm [2]	<input type="checkbox"/> MAXIMUM > 50cm [2]	<input checked="" type="checkbox"/> STABLE (e.g., Cobble, Boulder) [2]	<input checked="" type="checkbox"/> NONE [2]
<input type="checkbox"/> BEST AREAS 5-10cm [1]	<input checked="" type="checkbox"/> MAXIMUM < 50cm [1]	<input type="checkbox"/> MOD. STABLE (e.g., Large Gravel) [1]	<input type="checkbox"/> LOW [1]
<input type="checkbox"/> BEST AREAS < 5cm [metric=0]		<input type="checkbox"/> UNSTABLE (e.g., Fine Gravel, Sand) [0]	<input type="checkbox"/> MODERATE [0]
<b>Comments</b>			<b>Riffle / Run</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 10px;">7</span>
			<small>Maximum 8</small>

**6] GRADIENT ( ft/mi) DRAINAGE AREA ( mi<sup>2</sup>)**

<input type="checkbox"/> VERY LOW - LOW [2-4]	<b>%POOL:</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 10px;">0</span>	<b>%GLIDE:</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 10px;">0</span>	<b>Gradient</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 10px;">4</span>
<input type="checkbox"/> MODERATE [6-10]	<b>%RUN:</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 10px;">0</span>	<b>%RIFFLE:</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px 10px;">0</span>	<small>Maximum 10</small>
<input type="checkbox"/> HIGH - VERY HIGH [10-6]			



53.75

Stream & Location: Upper Sugar Creek Site 6

RM: Date: 07/15/22

River Code: STORET #: Scorers Full Name & Affiliation: Reuben R. Goforth, PhD, Consultant

1) SUBSTRATE Check ONLY Two substrate TYPE BOXES, estimate % or note every type present

Substrate assessment grid with categories: BEST TYPES, OTHER TYPES, POOL RIFFLE, ORIGIN, QUALITY, SILT, UNBEDDEDNESS. Includes handwritten '13' and '11'.

2) INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality; 3-Highest quality in moderate or greater amounts

Instream cover assessment grid with categories: UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, ROOTMATS, POOLS, ROOTWADS, BOULDERS, OXBOWS, AQUATIC MACROPHYTES, LOGS OR WOODY DEBRIS. Includes handwritten '7' and '3'.

3) CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)

Channel morphology assessment grid with categories: SINUOSITY, DEVELOPMENT, CHANNELIZATION, STABILITY. Includes handwritten '11'.

4) BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)

Bank erosion and riparian zone assessment grid with categories: EROSION, RIPARIAN WIDTH, FLOOD PLAIN QUALITY, CONSERVATION TILLAGE, URBAN OR INDUSTRIAL, MINING / CONSTRUCTION. Includes handwritten '2', '4', '15', '35', '2', '1.75'.

5) POOL / GLIDE AND RIFFLE / RUN QUALITY

Pool/glide and riffle/run quality assessment grid with categories: MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY, Recreation Potential. Includes handwritten '1', '2', '9'.

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average)

Riffle/run quality assessment grid with categories: RIFFLE DEPTH, RUN DEPTH, RIFFLE / RUN SUBSTRATE, RIFFLE / RUN EMBEDDEDNESS. Includes handwritten '2' and '1'.

6) GRADIENT (ft/mi) DRAINAGE AREA (mi²) %POOL: %GLIDE: %RUN: %RIFFLE: Includes handwritten '4'.



**Stream & Location:** Upper Sugar Creek Site 7

**RM:** \_\_\_\_\_ **Date:** 07/15/22

**Scorer's Full Name & Affiliation:** Reuben R. Goforth, PhD, Consultant

**River Code:** \_\_\_\_\_ **STORET #:** \_\_\_\_\_ **Lat/Long:** \_\_\_\_\_ **18** Office verified location

**1) SUBSTRATE** Check ONLY Two substrate TYPE BOXES; estimate % or note every type present

<b>BEST TYPES</b>	<b>POOL RIFFLE</b>	<b>OTHER TYPES</b>	<b>POOL RIFFLE</b>	<b>ORIGIN</b>	<b>QUALITY</b>
<input type="checkbox"/> BLDR / SLABS [10]	<input checked="" type="checkbox"/>	<input type="checkbox"/> HARDPAN [4]	<input checked="" type="checkbox"/>	<input type="checkbox"/> LIMESTONE [1]	<input type="checkbox"/> HEAVY [-2]
<input type="checkbox"/> BOULDER [9]	<input checked="" type="checkbox"/>	<input type="checkbox"/> DETRITUS [3]	<input checked="" type="checkbox"/>	<input type="checkbox"/> TILLS [1]	<input type="checkbox"/> MODERATE [-1]
<input type="checkbox"/> COBBLE [8]	<input checked="" type="checkbox"/>	<input type="checkbox"/> MUCK [2]	<input checked="" type="checkbox"/>	<input type="checkbox"/> WETLANDS [0]	<input type="checkbox"/> NORMAL [0]
<input type="checkbox"/> GRAVEL [7]	<input checked="" type="checkbox"/>	<input type="checkbox"/> SILT [2]	<input checked="" type="checkbox"/>	<input type="checkbox"/> HARDPAN [0]	<input type="checkbox"/> FREE [1]
<input checked="" type="checkbox"/> SAND [6]	<input checked="" type="checkbox"/>	<input type="checkbox"/> ARTIFICIAL [0]	<input checked="" type="checkbox"/>	<input type="checkbox"/> SANDSTONE [0]	<input type="checkbox"/> EXTENSIVE [-2]
<input type="checkbox"/> BEDROCK [5]	<input checked="" type="checkbox"/>	(Score natural substrates; ignore sludge from point-sources)		<input type="checkbox"/> RIP/RAP [0]	<input type="checkbox"/> MODERATE [-1]

**NUMBER OF BEST TYPES:**  4 or more [2]  3 or less [0]

**Comments**

Substrate

14

Maximum 20

**2) INSTREAM COVER** Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

1 UNDERCUT BANKS [1]	2 POOLS > 70cm [2]	0 OXBOWS, BACKWATERS [1]	<b>AMOUNT</b>
1 OVERHANGING VEGETATION [1]	1 ROOTWADS [1]	1 AQUATIC MACROPHYTES [1]	Check ONE (Or 2 & average)
2 SHALLOWS (IN SLOW WATER) [1]	0 BOULDERS [1]	1 LOGS OR WOODY DEBRIS [1]	<input type="checkbox"/> EXTENSIVE >75% [11]
3 ROOTMATS [1]			<input type="checkbox"/> MODERATE 25-75% [7]
			<input type="checkbox"/> SPARSE 5-<25% [3]
			<input type="checkbox"/> NEARLY ABSENT <5% [1]

**Comments**

Cover

16

Maximum 20

**3) CHANNEL MORPHOLOGY** Check ONE in each category (Or 2 & average)

<b>SINUOSITY</b>	<b>DEVELOPMENT</b>	<b>CHANNELIZATION</b>	<b>STABILITY</b>
<input type="checkbox"/> HIGH [4]	<input type="checkbox"/> EXCELLENT [7]	<input checked="" type="checkbox"/> NONE [6]	<input type="checkbox"/> HIGH [3]
<input type="checkbox"/> MODERATE [3]	<input type="checkbox"/> GOOD [5]	<input type="checkbox"/> RECOVERED [4]	<input checked="" type="checkbox"/> MODERATE [2]
<input type="checkbox"/> LOW [2]	<input type="checkbox"/> FAIR [3]	<input type="checkbox"/> RECOVERING [3]	<input type="checkbox"/> LOW [1]
<input type="checkbox"/> NONE [1]	<input type="checkbox"/> POOR [1]	<input type="checkbox"/> RECENT OR NO RECOVERY [1]	

**Comments**

Channel

14

Maximum 20

**4) BANK EROSION AND RIPARIAN ZONE** Check ONE in each category for EACH BANK (Or 2 per bank & average)

<b>EROSION</b>	<b>RIPARIAN WIDTH</b>	<b>FLOOD PLAIN QUALITY</b>	
<input checked="" type="checkbox"/> NONE / LITTLE [3]	<input type="checkbox"/> WIDE > 50m [4]	<input type="checkbox"/> FOREST, SWAMP [3]	<input type="checkbox"/> CONSERVATION TILLAGE [1]
<input type="checkbox"/> MODERATE [2]	<input type="checkbox"/> MODERATE 10-50m [3]	<input type="checkbox"/> SHRUB OR OLD FIELD [2]	<input type="checkbox"/> URBAN OR INDUSTRIAL [0]
<input type="checkbox"/> HEAVY / SEVERE [1]	<input type="checkbox"/> NARROW 5-10m [2]	<input type="checkbox"/> RESIDENTIAL, PARK, NEW FIELD [1]	<input type="checkbox"/> MINING / CONSTRUCTION [0]
	<input type="checkbox"/> VERY NARROW < 5m [1]	<input type="checkbox"/> FENCED PASTURE [1]	
	<input type="checkbox"/> NONE [0]	<input type="checkbox"/> OPEN PASTURE, ROWCROP [0]	

**Comments**

Riparian

10

Maximum 10

**5) POOL / GLIDE AND RIFFLE / RUN QUALITY**

<b>MAXIMUM DEPTH</b>	<b>CHANNEL WIDTH</b>	<b>CURRENT VELOCITY</b>	<b>Recreation Potential</b>
Check ONE (ONLY)	Check ONE (Or 2 & average)	Check ALL that apply	<b>Primary Contact</b>
<input checked="" type="checkbox"/> > 1m [6]	<input type="checkbox"/> POOL WIDTH > RIFFLE WIDTH [2]	<input type="checkbox"/> TORRENTIAL [-1]	<b>Secondary Contact</b>
<input type="checkbox"/> 0.7-<1m [4]	<input type="checkbox"/> POOL WIDTH = RIFFLE WIDTH [1]	<input type="checkbox"/> SLOW [1]	(circle one and comment on back)
<input type="checkbox"/> 0.4-<0.7m [2]	<input type="checkbox"/> POOL WIDTH < RIFFLE WIDTH [0]	<input type="checkbox"/> VERY FAST [1]	
<input type="checkbox"/> 0.2-<0.4m [1]		<input type="checkbox"/> FAST [1]	
<input type="checkbox"/> < 0.2m [0]		<input type="checkbox"/> MODERATE [1]	
		<input type="checkbox"/> INTERSTITIAL [-1]	
		<input type="checkbox"/> INTERMITTENT [-2]	
		<input type="checkbox"/> EDDIES [1]	

**Comments**

Pool / Current

11

Maximum 12

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average)  NO RIFFLE [metric=0]

<b>RIFFLE DEPTH</b>	<b>RUN DEPTH</b>	<b>RIFFLE / RUN SUBSTRATE</b>	<b>RIFFLE / RUN EMBEDDEDNESS</b>
<input type="checkbox"/> BEST AREAS > 10cm [2]	<input type="checkbox"/> MAXIMUM > 50cm [2]	<input type="checkbox"/> STABLE (e.g., Cobble, Boulder) [2]	<input type="checkbox"/> NONE [2]
<input type="checkbox"/> BEST AREAS 5-10cm [1]	<input type="checkbox"/> MAXIMUM < 50cm [1]	<input type="checkbox"/> MOD. STABLE (e.g., Large Gravel) [1]	<input type="checkbox"/> LOW [1]
<input type="checkbox"/> BEST AREAS < 5cm [metric=0]		<input type="checkbox"/> UNSTABLE (e.g., Fine Gravel, Sand) [0]	<input type="checkbox"/> MODERATE [0]
			<input type="checkbox"/> EXTENSIVE [-1]

**Comments**

Riffle / Run

4, 5

Maximum 8

**6) GRADIENT ( DRAINAGE AREA** (mi<sup>2</sup>)

<input type="checkbox"/> VERY LOW - LOW [2-4]	%POOL: <input type="text"/>	%GLIDE: <input type="text"/>	<b>Gradient</b>
<input type="checkbox"/> MODERATE [6-10]	%RUN: <input type="text"/>	%RIFFLE: <input type="text"/>	Maximum 10
<input type="checkbox"/> HIGH - VERY HIGH [10-6]			



Stream & Location: Upper Sugar Creek Site 8

RM: Date: 07/15/22

Scorers Full Name & Affiliation: Reuben R. Goforth, PhD, Consultant

River Code: STORET #: Lat./ Long.: 18

1) SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present

Substrate assessment grid with categories: BEST TYPES (BLDR/SLABS, BOULDER, COBBLE, GRAVEL, SAND, BEDROCK), POOL RIFFLE, OTHER TYPES (HARDPAN, DETRITUS, MUCK, SILT, ARTIFICIAL), ORIGIN (LIMESTONE, TILLS, WETLANDS, SANDSTONE, RIP/RAP, LACUSTURINE, SHALE, COAL FINES), and QUALITY (HEAVY, MODERATE, NORMAL, FREE, EXTENSIVE, MODERATE, NORMAL, NONE).

Comments: Most of area sampled sandy with muck silt - small riffle upstream w/ probable

2) INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

Instream Cover assessment grid with categories: UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, ROOTMATS, POOLS > 70cm, ROOTWADS, BOULDERS, OXBOWS, BACKWATERS, AQUATIC MACROPHYTES, LOGS OR WOODY DEBRIS.

Comments: curly leaf pondweed, duckweed, arrowhead, flodora

3) CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)

Channel Morphology assessment grid with categories: SINUOSITY (HIGH, MODERATE, LOW, NONE), DEVELOPMENT (EXCELLENT, GOOD, FAIR, POOR), CHANNELIZATION (NONE, RECOVERED, RECOVERING, RECENT OR NO RECOVERY), STABILITY (HIGH, MODERATE, LOW).

Comments

4) BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)

Bank Erosion and Riparian Zone assessment grid with categories: EROSION (NONE/LITTLE, MODERATE, HEAVY/SEVERE), RIPARIAN WIDTH (WIDE > 50m, MODERATE 10-50m, NARROW 5-10m, VERY NARROW < 5m, NONE), FLOOD PLAIN QUALITY (FOREST, SWAMP, SHRUB OR OLD FIELD, RESIDENTIAL, PARK, NEW FIELD, FENCED PASTURE, OPEN PASTURE, ROWCROP, CONSERVATION TILLAGE, URBAN OR INDUSTRIAL, MINING / CONSTRUCTION).

Comments: Banks densely colonized by herbs and only mod. eros.

5) POOL / GLIDE AND RIFFLE / RUN QUALITY

Pool / Glide and Riffle / Run Quality assessment grid with categories: MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY (TORRENTIAL, VERY FAST, FAST, MODERATE, SLOW, INTERSTITIAL, INTERMITTENT, EDDIES), Recreation Potential (Primary Contact, Secondary Contact), Pool / Current Maximum.

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species:

Riffle / Run Quality assessment grid with categories: RIFFLE DEPTH (BEST AREAS > 10cm, 5-10cm, < 5cm), RUN DEPTH (MAXIMUM > 50cm, < 50cm), RIFFLE / RUN SUBSTRATE (STABLE, MOD. STABLE, UNSTABLE), RIFFLE / RUN EMBEDDEDNESS (NONE, LOW, MODERATE, EXTENSIVE).

Comments

6) GRADIENT (

Gradient assessment grid with categories: DRAINAGE AREA (ft/mi, mi^2), VERY LOW - LOW, MODERATE, HIGH - VERY HIGH, % POOL, % GLIDE, % RUN, % RIFFLE, Gradient Maximum.



Stream & Location: Upper Sugar Creek Site (9) RM: Date: 07/15/22

Scorer's Full Name & Affiliation: Reuben R. Goforth, PhD, Consultant Office verified location
River Code: STORET #: Lat/ Long.: 18

1) SUBSTRATE Check ONLY Two substrate TYPE BOXES, estimate % or note every type present. Check ONE (Or 2 & average) ORIGIN. Check ONE (Or 2 & average) QUALITY. Includes categories like BLDR/SLABS, COBBLE, SAND, BEDROCK, LIMESTONE, TILLS, WETLANDS, SANDSTONE, RIP/RAP, LACUSTURINE, SHALE, COAL FINES. Includes a 'Substrate' score box with value 5.

2) INSTREAM COVER Indicate presence 0 to 3: 0-Absent, 1-Very small amounts or if more common of marginal quality, 2-Moderate amounts, but not of highest quality or in small amounts of highest quality, 3-Highest quality in moderate or greater amounts. Includes categories like UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, POOLS, ROOTWADS, BOULDERS, OXBOWS, BACKWATERS, AQUATIC MACROPHYTES, LOGS OR WOODY DEBRIS. Includes a 'Cover Maximum' score box with value 6.

3) CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average). Includes categories like SINUOSITY, DEVELOPMENT, CHANNELIZATION, STABILITY. Includes a 'Channel Maximum' score box with value 6.

4) BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average). Includes categories like EROSION, RIPARIAN WIDTH, FLOOD PLAIN QUALITY. Includes a 'Riparian Maximum' score box with value 2.

5) POOL / GLIDE AND RIFFLE / RUN QUALITY Includes categories like MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY. Includes a 'Recreation Potential' box with 'Primary Contact' and 'Secondary Contact' options. Includes a 'Pool / Current Maximum' score box with value 3.

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average). Includes categories like RIFFLE DEPTH, RUN DEPTH, RIFFLE / RUN SUBSTRATE, RIFFLE / RUN EMBEDDEDNESS. Includes a 'Riffle / Run Maximum' score box with value 0.

6) GRADIENT (m/m) DRAINAGE AREA (m^2) Includes categories like VERY LOW - LOW, MODERATE, HIGH - VERY HIGH. Includes fields for %POOL, %GLIDE, %RUN, %RIFFLE. Includes a 'Gradient Maximum' score box with value 4.



Stream & Location: Upper Sugar Creek Site 10

RM: Date: 07/15/22

Scorers Full Name & Affiliation: Reuben R. Goforth, PhD, Consultant

River Code: STORET #: Lat/ Long: 18 Office verified location

1) SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present

Substrate assessment section including categories: BEST TYPES, OTHER TYPES, POOL RIFFLE, ORIGIN, and QUALITY. Includes checkboxes for various substrate types and a final score of 4.

2) INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts

Instream Cover assessment section including categories: UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWING, ROOTMATS, POOLS, ROOTWADS, BOULDERS, OXBOWS, BACKWATERS, AQUATIC MACROPHYTES, LOGS OR WOODY DEBRIS. Includes checkboxes and a final score of 11.

3) CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)

Channel Morphology assessment section including categories: SINUOSITY, DEVELOPMENT, CHANNELIZATION, STABILITY. Includes checkboxes and a final score of 4.

4) BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)

Bank Erosion and Riparian Zone assessment section including categories: EROSION, RIPARIAN WIDTH, FLOOD PLAIN QUALITY. Includes checkboxes and scores of 2, 1.5, and 0.75.

5) POOL / GLIDE AND RIFFLE / RUN QUALITY

Pool / Glide and Riffle / Run Quality assessment section including categories: MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY, Recreation Potential. Includes checkboxes and a final score of 7.

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species:

Riffle / Run Embeddedness assessment section including categories: RIFFLE DEPTH, RUN DEPTH, RIFFLE / RUN SUBSTRATE, RIFFLE / RUN EMBEDDEDNESS. Includes checkboxes and a final score of 0.

6) GRADIENT (DRAINAGE AREA) assessment section including categories: GRADIENT, DRAINAGE AREA, %POOL, %GLIDE, %RUN, %RIFFLE. Includes checkboxes and a final score of 4.



Stream & Location: Upper Sugar Creek Site | | RM: Date: 07/15/22

Scorer's Full Name & Affiliation: Reuben R. Goforth, PhD, Consultant

River Code: STORET #: Lat/Long: 18 Office verified location

1) SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present

<input checked="" type="checkbox"/> BLDR / SLABS [10]	<input checked="" type="checkbox"/> POOL RIFFLE	<input type="checkbox"/> HARDPAN [4]	<input type="checkbox"/> POOL RIFFLE	<input checked="" type="checkbox"/> LIMESTONE [1]	<input type="checkbox"/> HEAVY [-2]
<input type="checkbox"/> BOULDER [9]	<input type="checkbox"/> OTHER TYPES	<input type="checkbox"/> DETRITUS [3]	<input type="checkbox"/> OTHER TYPES	<input type="checkbox"/> SILT	<input checked="" type="checkbox"/> MODERATE [-1]
<input type="checkbox"/> COBBLE [8]	<input type="checkbox"/> MUCK [2]	<input type="checkbox"/> SILT [2]	<input type="checkbox"/> OTHER TYPES	<input type="checkbox"/> WETLANDS [0]	<input type="checkbox"/> NORMAL [0]
<input type="checkbox"/> GRAVEL [7]	<input type="checkbox"/> ARTIFICIAL [0]	<input type="checkbox"/> OTHER TYPES	<input type="checkbox"/> OTHER TYPES	<input type="checkbox"/> SANDSTONE [0]	<input type="checkbox"/> FREE [1]
<input type="checkbox"/> SAND [6]				<input type="checkbox"/> RIP/RAP [0]	<input checked="" type="checkbox"/> MODERATE [-1]
<input checked="" type="checkbox"/> BEDROCK [5]				<input type="checkbox"/> LACUSTURINE [0]	<input type="checkbox"/> NORMAL [0]

NUMBER OF BEST TYPES: 4 or more [2] sludge from point-sources) 3 or less [0]

Comments: (15) (2) (1) (2)

Substrate Maximum 20: 16

2) INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwads in deep / fast water, or deep, well-defined, functional pools.

<input checked="" type="checkbox"/> UNDERCUT BANKS [1]	<input checked="" type="checkbox"/> POOLS > 70cm [2]	<input checked="" type="checkbox"/> OXBOWS, BACKWATERS [1]	<input type="checkbox"/> EXTENSIVE >75% [11]
<input checked="" type="checkbox"/> OVERHANGING VEGETATION [1]	<input checked="" type="checkbox"/> ROOTWADS [1]	<input checked="" type="checkbox"/> AQUATIC MACROPHYTES [1]	<input checked="" type="checkbox"/> MODERATE 25-75% [7]
<input checked="" type="checkbox"/> SHALLOWS (IN SLOW WATER) [1]	<input checked="" type="checkbox"/> BOULDERS [1]	<input checked="" type="checkbox"/> LOGS OR WOODY DEBRIS [1]	<input checked="" type="checkbox"/> SPARSE 5-25% [3]
<input checked="" type="checkbox"/> ROOTMATS [1]			<input type="checkbox"/> NEARLY ABSENT <5% [1]

Comments: Lots of algae (3) (1) (2) (5)

Cover Maximum 20: 11

3) CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)

<input type="checkbox"/> HIGH [4]	<input type="checkbox"/> EXCELLENT [7]	<input type="checkbox"/> NONE [6]	<input checked="" type="checkbox"/> HIGH [3]
<input type="checkbox"/> MODERATE [3]	<input type="checkbox"/> GOOD [5]	<input type="checkbox"/> RECOVERED [4]	<input type="checkbox"/> MODERATE [2]
<input checked="" type="checkbox"/> LOW [2]	<input checked="" type="checkbox"/> FAIR [3]	<input type="checkbox"/> RECOVERING [3]	<input type="checkbox"/> LOW [1]
<input type="checkbox"/> NONE [1]	<input checked="" type="checkbox"/> POOR [1]	<input type="checkbox"/> RECENT OR NO RECOVERY [1]	

Comments: (2) (1) (6) (3)

Channel Maximum 20: 12

4) BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)

<input type="checkbox"/> NONE / LITTLE [3]	<input checked="" type="checkbox"/> WIDE > 50m [4]	<input checked="" type="checkbox"/> FOREST, SWAMP [3]	<input type="checkbox"/> CONSERVATION TILLAGE [1]
<input checked="" type="checkbox"/> MODERATE [2]	<input type="checkbox"/> MODERATE 10-50m [3]	<input type="checkbox"/> SHRUB OR OLD FIELD [2]	<input type="checkbox"/> URBAN OR INDUSTRIAL [0]
<input type="checkbox"/> HEAVY / SEVERE [1]	<input type="checkbox"/> NARROW 5-10m [2]	<input type="checkbox"/> RESIDENTIAL, PARK, NEW FIELD [1]	<input type="checkbox"/> MINING / CONSTRUCTION [0]
	<input type="checkbox"/> VERY NARROW < 5m [1]	<input type="checkbox"/> FENCED PASTURE [1]	
	<input type="checkbox"/> NONE [0]	<input checked="" type="checkbox"/> OPEN PASTURE, ROWCROP [0]	

Comments: (2) (3.5) (1.5) (7)

Riparian Maximum 10: 7

5) POOL / GLIDE AND RIFFLE / RUN QUALITY

<input type="checkbox"/> > 1m [6]	<input type="checkbox"/> POOL WIDTH > RIFFLE WIDTH [2]	<input type="checkbox"/> TORRENTIAL [-1]	<input checked="" type="checkbox"/> SLOW [1]
<input type="checkbox"/> 0.7-1m [4]	<input checked="" type="checkbox"/> POOL WIDTH = RIFFLE WIDTH [1]	<input type="checkbox"/> VERY FAST [1]	<input type="checkbox"/> INTERSTITIAL [-1]
<input type="checkbox"/> 0.4-0.7m [2]	<input type="checkbox"/> POOL WIDTH < RIFFLE WIDTH [0]	<input checked="" type="checkbox"/> FAST [1]	<input type="checkbox"/> INTERMITTENT [-2]
<input checked="" type="checkbox"/> 0.2-0.4m [1]		<input checked="" type="checkbox"/> MODERATE [1]	<input type="checkbox"/> EDDIES [1]
<input type="checkbox"/> < 0.2m [0]			

Comments: (1) (1) (3)

Pool / Current Maximum 12: 5

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species:

<input checked="" type="checkbox"/> BEST AREAS > 10cm [2]	<input type="checkbox"/> MAXIMUM > 50cm [2]	<input checked="" type="checkbox"/> STABLE (e.g., Cobble, Boulder) [2]	<input type="checkbox"/> NONE [2]
<input type="checkbox"/> BEST AREAS 5-10cm [1]	<input checked="" type="checkbox"/> MAXIMUM < 50cm [1]	<input type="checkbox"/> MOD. STABLE (e.g., Large Gravel) [1]	<input type="checkbox"/> LOW [1]
<input type="checkbox"/> BEST AREAS < 5cm (metric=0)		<input type="checkbox"/> UNSTABLE (e.g., Fine Gravel, Sand) [0]	<input checked="" type="checkbox"/> MODERATE [0]
			<input type="checkbox"/> EXTENSIVE [-1]

Comments: (2) (1) (2)

Riffle / Run Maximum 8: 5

6) GRADIENT (ft/mi)  VERY LOW - LOW [2-4] %POOL:  %GLIDE:

DRAINAGE AREA (mi<sup>2</sup>)  MODERATE [6-10] %RUN:  %RIFFLE:

HIGH - VERY HIGH [10-6] Gradient Maximum 10: 4



Stream & Location: Upper Sugar Creek Site D RM: Date: 07/15/22

Scorers Full Name & Affiliation: Reuben R. Goforth, PhD, Consultant Office verified location

River Code: STORET #: Lat/Long.: 18

1] SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present. BEST TYPES, OTHER TYPES, ORIGIN, QUALITY, NUMBER OF BEST TYPES: 11

2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts. UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, ROOTMATS, POOLS > 70cm, ROOTWADS, BOULDERS, OXBOWS, BACKWATERS, AQUATIC MACROPHYTES, LOGS OR WOODY DEBRIS. Cover Maximum 20

3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average) SINUOSITY, DEVELOPMENT, CHANNELIZATION, STABILITY. Channel Maximum 20

4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average) RIPARIAN WIDTH, FLOOD PLAIN QUALITY, CONSERVATION TILLAGE, URBAN OR INDUSTRIAL, MINING / CONSTRUCTION. Riparian Maximum 10

5] POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY, Recreation Potential Primary Contact, Secondary Contact. Pool / Current Maximum 12

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: RIFFLE DEPTH, RUN DEPTH, RIFFLE / RUN SUBSTRATE, RIFFLE / RUN EMBEDDEDNESS. Riffle / Run Maximum 8

6] GRADIENT (ft/mi) DRAINAGE AREA (mi^2) VERY LOW - LOW, MODERATE, HIGH - VERY HIGH. %POOL, %GLIDE, %RUN, %RIFFLE. Gradient Maximum 10



Stream & Location: Upper Sugar Creek Site 13

RM: Date: 07/15/22

Scorer's Full Name & Affiliation: Reuben R. Goforth, PhD, Consultant

River Code: STORET #: Lat/Long.: 18

1] SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present

Form for Substrate assessment including categories: BEST TYPES, OTHER TYPES, ORIGIN, QUALITY, and NUMBER OF BEST TYPES. Includes handwritten notes and scores like (11), (2), (1), (15), and (20).

2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

Form for Instream Cover assessment including categories: UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, ROOTMATS, POOLS, ROOTWADS, BOULDERS, OXBOWS, BACKWATERS, AQUATIC MACROPHYTES, LOGS OR WOODY DEBRIS. Includes handwritten notes and scores like (6), (7), and (20).

3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)

Form for Channel Morphology assessment including categories: SINUOSITY, DEVELOPMENT, CHANNELIZATION, STABILITY. Includes handwritten notes and scores like (3), (1), (6), (3), and (20).

4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)

Form for Bank Erosion and Riparian Zone assessment including categories: EROSION, RIPARIAN WIDTH, FLOOD PLAIN QUALITY. Includes handwritten notes and scores like (2), (2.75), (0.5), (3.5), and (10).

5] POOL / GLIDE AND RIFFLE / RUN QUALITY

Form for Pool / Glide and Riffle / Run Quality assessment including categories: MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY. Includes handwritten notes and scores like (5), (1), (2), and (12).

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average).

Form for Riffle / Run Quality assessment including categories: RIFFLE DEPTH, RUN DEPTH, RIFFLE / RUN SUBSTRATE, RIFFLE / RUN EMBEDDEDNESS. Includes handwritten notes and scores like (0) and (8).

6] GRADIENT (ft/mi)

Form for Gradient assessment including categories: DRAINAGE AREA, GRADIENT, % POOL, % GLIDE, % RUN, % RIFFLE. Includes handwritten notes and scores like (4).



Stream & Location: Upper Cuyahoga Creek Watershed #14 RM: Date: 7/16/22

Scorers Full Name & Affiliation: R.R. Gortalski Ph.D. Office verified location

River Code: STORET #: Lat/ Long.: 18

1) SUBSTRATE Check ONLY Two substrate TYPE BOXES: estimate % or note every type present. Includes categories: BEST TYPES, OTHER TYPES, ORIGIN, QUALITY, AMOUNT. Includes handwritten values: 14, 2, 1, -1, 16.

2) INSTREAM COVER Indicate presence 0 to 3: 0-Absent, 1-Very small amounts... Includes categories: UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, ROOTMATS, POOLS, ROOTWADS, BOULDERS, OXBOWS, AQUATIC MACROPHYTES, LOGS. Includes handwritten values: 9, 7, 16.

3) CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average). Includes categories: SINUOSITY, DEVELOPMENT, CHANNELIZATION, STABILITY. Includes handwritten values: 3.5, 6, 6, 3, 18.5.

4) BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average). Includes categories: EROSION, RIPARIAN WIDTH, FLOOD PLAIN QUALITY. Includes handwritten values: 3, 2.75, 3, 1.5, 9.25.

5) POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY. Includes Recreation Potential Primary Contact, Secondary Contact. Includes handwritten values: 6, 3, 12.

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: RIFFLE DEPTH, RUN DEPTH, RIFFLE / RUN SUBSTRATE, RIFFLE / RUN EMBEDDEDNESS. Includes handwritten values: 2, 2, 2, 7.

6) GRADIENT (ft/mi), DRAINAGE AREA (mi^2), %POOL, %GLIDE, %RUN, %RIFFLE. Includes handwritten values: 4.



Stream & Location: Upper Sugar Creek Site 15

RM: Date: 07/15/22

Scorer's Full Name & Affiliation: Reuben R. Goforth, PhD, Consultant

River Code: STORET #: Lat/Long.: 18 Office verified location

1) SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present. Includes categories: BEST TYPES, OTHER TYPES, ORIGIN, QUALITY, and EMBEDDEDNESS. Includes handwritten '14' in comments and '13' in a box.

2) INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts... Includes categories: UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, ROOTMATS, POOLS, ROOTWADS, BOULDERS, OXBOWS, AQUATIC MACROPHYTES, LOGS OR WOODY DEBRIS. Includes handwritten '6' in comments and '5' in a box.

3) CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average). Includes categories: SINUOSITY, DEVELOPMENT, CHANNELIZATION, STABILITY. Includes handwritten '3', '7', '4', '3' in comments and '17' in a box.

4) BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average). Includes categories: EROSION, RIPARIAN WIDTH, FLOOD PLAIN QUALITY. Includes handwritten '1.5', '2.5', '1' in comments and '5' in a box.

5) POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY. Includes categories: MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY, Recreation Potential. Includes handwritten '4', '2', '3' in comments and '9' in a box.

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species. Includes categories: RIFFLE DEPTH, RUN DEPTH, RIFFLE / RUN SUBSTRATE, RIFFLE / RUN EMBEDDEDNESS. Includes handwritten '2', '2' in comments and '5' in a box.

6) GRADIENT ( ft/ml ) DRAINAGE AREA ( m^2 ) VERY LOW - LOW [2-4] MODERATE [6-10] HIGH - VERY HIGH [10-6]. Includes handwritten '4' in a box.



Stream & Location: Upper Sugar Creek Site 16 RM: Date: 07/15/22

Scorers Full Name & Affiliation: Reuben R. Goforth, PhD, Consultant

River Code: STORET #: Lat/Long: 18 Office verified location

1] SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present. Includes categories: BEST TYPES, OTHER TYPES, ORIGIN, QUALITY, and NUMBER OF BEST TYPES.

2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts. Includes categories: UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, ROOTMATS, POOLS, OXBOWS, AQUATIC MACROPHYTES, LOGS OR WOODY DEBRIS, and AMOUNT.

3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average). Includes categories: SINUOSITY, DEVELOPMENT, CHANNELIZATION, and STABILITY.

4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average). Includes categories: EROSION, RIPARIAN WIDTH, FLOOD PLAIN QUALITY, and CONSERVATION TILLAGE.

5] POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY. Includes Recreation Potential Primary Contact and Secondary Contact.

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: RIFFLE DEPTH, RUN DEPTH, RIFFLE / RUN SUBSTRATE, RIFFLE / RUN EMBEDDEDNESS.

6] GRADIENT ( n/mi) DRAINAGE AREA ( m^2) %POOL, %GLIDE, %RUN, %RIFFLE. Includes Gradient Maximum.



# Appendix D: Load Duration Curve Calculations

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date	S1 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
2/17/22	677.88	1	0.273		3653.77	292.30	54806.55	3.90E+12	2.07E+12
3/7/22	465.18	2	0.546		2507.34	200.59	37610.03	2.67E+12	1.42E+12
2/18/22	328.18	3	0.820		1768.87	141.51	26533.07	1.89E+12	1.00E+12
3/23/22	303.56	4	1.093		1636.19	130.89	24542.80	1.75E+12	9.28E+11
5/1/22	199.85	5	1.366		1077.22	86.18	16158.26	1.15E+12	6.11E+11
3/8/22	182.24	6	1.639		982.26	78.58	14733.94	1.05E+12	5.57E+11
2/22/22	150.24	7	1.913		809.78	64.78	12146.76	8.64E+11	4.59E+11
2/16/22	133.47	8	2.186		719.38	57.55	10790.66	7.67E+11	4.08E+11
3/24/22	129.87	9	2.459		700.01	56.00	10500.18	7.47E+11	3.97E+11
5/6/22	124.03	10	2.732		668.51	53.48	10027.62	7.13E+11	3.79E+11
1/2/22	118.43	11	3.005		638.36	51.07	9575.42	6.81E+11	3.62E+11
2/19/22	113.42	12	3.279		611.34	48.91	9170.13	6.52E+11	3.47E+11
2/23/22	107.62	13	3.552		580.07	46.41	8701.08	6.19E+11	3.29E+11
8/30/22	105.73	14	3.825		569.91	45.59	8548.63	6.08E+11	3.23E+11
2/2/22	104.91	15	4.098		565.46	45.24	8481.90	6.03E+11	3.21E+11
5/7/22	100.14	16	4.372		539.76	43.18	8096.43	5.76E+11	3.06E+11
5/4/22	91.84	17	4.645		495.01	39.60	7425.13	5.28E+11	2.81E+11
3/9/22	90.58	18	4.918		488.23	39.06	7323.44	5.21E+11	2.77E+11
6/12/22	89.22	19	5.191		480.88	38.47	7213.22	5.13E+11	2.73E+11
6/13/22	84.72	20	5.464		456.65	36.53	6849.70	4.87E+11	2.59E+11
5/2/22	74.76	21	5.738		402.95	32.24	6044.27	4.30E+11	2.29E+11
4/14/22	73.76	22	6.011		397.54	31.80	5963.10	4.24E+11	2.26E+11
5/27/22	73.14	23	6.284		394.21	31.54	5913.13	4.20E+11	2.24E+11
5/3/22	71.69	24	6.557		386.40	30.91	5795.95	4.12E+11	2.19E+11
6/14/22	70.72	25	6.831		381.17	30.49	5717.61	4.07E+11	2.16E+11
3/25/22	70.58	26	7.104		380.41	30.43	5706.19	4.06E+11	2.16E+11
2/21/22	69.17	27	7.377		372.80	29.82	5592.01	3.98E+11	2.12E+11
2/20/22	67.81	28	7.650		365.49	29.24	5482.41	3.90E+11	2.07E+11
3/22/22	65.69	29	7.923		354.08	28.33	5311.19	3.78E+11	2.01E+11
2/3/22	61.99	30	8.197		334.11	26.73	5011.66	3.56E+11	1.90E+11
1/1/22	61.04	31	8.470		328.99	26.32	4934.85	3.51E+11	1.87E+11
5/5/22	57.98	32	8.743		312.50	25.00	4687.43	3.33E+11	1.77E+11
3/10/22	57.67	33	9.016		310.82	24.87	4662.28	3.32E+11	1.76E+11
12/31/22	57.14	34	9.290		308.00	24.64	4620.05	3.29E+11	1.75E+11
3/26/22	54.29	35	9.563		292.62	23.41	4389.37	3.12E+11	1.66E+11
4/25/22	54.21	36	9.836		292.19	23.38	4382.82	3.12E+11	1.66E+11
2/24/22	53.96	37	10.109		290.85	23.27	4362.69	3.10E+11	1.65E+11
2/12/22	52.79	38	10.383		284.51	22.76	4267.67	3.03E+11	1.61E+11
1/3/22	52.23	39	10.656		281.55	22.52	4223.19	3.00E+11	1.60E+11
5/26/22	51.30	40	10.929		276.50	22.12	4147.50	2.95E+11	1.57E+11
9/11/22	49.66	41	11.202		267.69	21.42	4015.39	2.86E+11	1.52E+11
5/8/22	46.29	42	11.475		249.51	19.96	3742.67	2.66E+11	1.42E+11
3/11/22	45.70	43	11.749		246.31	19.70	3694.68	2.63E+11	1.40E+11
4/7/22	45.06	44	12.022		242.90	19.43	3643.46	2.59E+11	1.38E+11
4/15/22	44.63	45	12.295		240.53	19.24	3608.02	2.57E+11	1.36E+11
1/9/22	44.60	46	12.568		240.39	19.23	3605.82	2.56E+11	1.36E+11
4/26/22	43.88	47	12.842		236.49	18.92	3547.37	2.52E+11	1.34E+11
3/19/22	43.36	48	13.115		233.69	18.70	3505.32	2.49E+11	1.33E+11
3/27/22	42.44	49	13.388		228.74	18.30	3431.04	2.44E+11	1.30E+11
2/25/22	42.27	50	13.661		227.81	18.22	3417.14	2.43E+11	1.29E+11
3/1/22	40.85	51	13.934		220.21	17.62	3303.12	2.35E+11	1.25E+11
3/20/22	39.62	52	14.208		213.55	17.08	3203.24	2.28E+11	1.21E+11
2/28/22	39.27	53	14.481		211.65	16.93	3174.81	2.26E+11	1.20E+11
2/27/22	37.72	54	14.754		203.34	16.27	3050.06	2.17E+11	1.15E+11
10/26/22	37.46	55	15.027		201.93	16.15	3028.93	2.15E+11	1.15E+11
3/2/22	36.73	56	15.301		197.98	15.84	2969.74	2.11E+11	1.12E+11
4/6/22	36.72	57	15.574		197.90	15.83	2968.55	2.11E+11	1.12E+11
5/28/22	36.69	58	15.847		197.77	15.82	2966.51	2.11E+11	1.12E+11
8/9/22	35.83	59	16.120		193.15	15.45	2897.26	2.06E+11	1.10E+11
3/12/22	35.37	60	16.393		190.67	15.25	2860.02	2.03E+11	1.08E+11

date	S1 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
3/28/22	34.18	61	16.667		184.24	14.74	2763.59	1.97E+11	1.05E+11
4/8/22	34.14	62	16.940		184.00	14.72	2760.03	1.96E+11	1.04E+11
2/26/22	33.91	63	17.213		182.80	14.62	2742.00	1.95E+11	1.04E+11
1/4/22	33.85	64	17.486		182.47	14.60	2737.02	1.95E+11	1.04E+11
12/15/22	32.85	65	17.760		177.06	14.17	2655.96	1.89E+11	1.00E+11
3/31/22	32.54	66	18.033		175.40	14.03	2631.04	1.87E+11	9.95E+10
3/21/22	32.47	67	18.306		175.00	14.00	2624.99	1.87E+11	9.93E+10
4/16/22	32.40	68	18.579		174.66	13.97	2619.84	1.86E+11	9.91E+10
6/15/22	31.44	69	18.852		169.47	13.56	2542.12	1.81E+11	9.62E+10
5/9/22	31.03	70	19.126		167.23	13.38	2508.49	1.78E+11	9.49E+10
4/9/22	30.36	71	19.399		163.65	13.09	2454.68	1.75E+11	9.29E+10
11/27/22	30.12	72	19.672		162.35	12.99	2435.24	1.73E+11	9.21E+10
3/3/22	29.58	73	19.945		159.46	12.76	2391.93	1.70E+11	9.05E+10
3/29/22	29.58	74	20.219		159.46	12.76	2391.88	1.70E+11	9.05E+10
4/13/22	29.40	75	20.492		158.44	12.68	2376.60	1.69E+11	8.99E+10
2/13/22	28.34	76	20.765		152.74	12.22	2291.03	1.63E+11	8.67E+10
4/27/22	28.31	77	21.038		152.57	12.21	2288.55	1.63E+11	8.66E+10
3/13/22	28.29	78	21.311		152.51	12.20	2287.59	1.63E+11	8.65E+10
3/30/22	27.80	79	21.585		149.86	11.99	2247.91	1.60E+11	8.50E+10
7/25/22	27.23	80	21.858		146.75	11.74	2201.27	1.57E+11	8.33E+10
1/5/22	26.97	81	22.131		145.36	11.63	2180.47	1.55E+11	8.25E+10
2/11/22	26.39	82	22.404		142.23	11.38	2133.44	1.52E+11	8.07E+10
3/6/22	26.07	83	22.678		140.52	11.24	2107.78	1.50E+11	7.97E+10
3/14/22	26.04	84	22.951		140.34	11.23	2105.07	1.50E+11	7.96E+10
1/10/22	26.03	85	23.224		140.33	11.23	2104.90	1.50E+11	7.96E+10
4/10/22	25.76	86	23.497		138.87	11.11	2083.08	1.48E+11	7.88E+10
4/1/22	25.67	87	23.770		138.37	11.07	2075.56	1.48E+11	7.85E+10
2/4/22	25.16	88	24.044		135.62	10.85	2034.31	1.45E+11	7.69E+10
4/17/22	25.12	89	24.317		135.39	10.83	2030.85	1.44E+11	7.68E+10
4/18/22	24.61	90	24.590		132.66	10.61	1989.92	1.42E+11	7.53E+10
3/4/22	24.17	91	24.863		130.28	10.42	1954.26	1.39E+11	7.39E+10
3/15/22	23.87	92	25.137		128.64	10.29	1929.61	1.37E+11	7.30E+10
4/11/22	23.76	93	25.410		128.06	10.25	1920.96	1.37E+11	7.27E+10
5/10/22	23.38	94	25.683		126.01	10.08	1890.10	1.34E+11	7.15E+10
5/29/22	23.09	95	25.956		124.46	9.96	1866.92	1.33E+11	7.06E+10
4/19/22	23.07	96	26.230		124.37	9.95	1865.57	1.33E+11	7.06E+10
4/2/22	22.75	97	26.503		122.61	9.81	1839.11	1.31E+11	6.96E+10
3/18/22	22.67	98	26.776		122.19	9.78	1832.84	1.30E+11	6.93E+10
4/28/22	22.64	99	27.049		122.03	9.76	1830.52	1.30E+11	6.92E+10
3/5/22	22.30	100	27.322		120.20	9.62	1802.94	1.28E+11	6.82E+10
3/16/22	22.29	101	27.596		120.14	9.61	1802.03	1.28E+11	6.82E+10
4/3/22	21.72	102	27.869		117.07	9.37	1756.02	1.25E+11	6.64E+10
4/5/22	21.68	103	28.142		116.88	9.35	1753.19	1.25E+11	6.63E+10
4/12/22	21.36	104	28.415		115.12	9.21	1726.80	1.23E+11	6.53E+10
3/17/22	20.76	105	28.689		111.88	8.95	1678.24	1.19E+11	6.35E+10
9/12/22	20.57	106	28.962		110.89	8.87	1663.32	1.18E+11	6.29E+10
4/4/22	20.39	107	29.235		109.90	8.79	1648.57	1.17E+11	6.24E+10
6/16/22	20.10	108	29.508		108.35	8.67	1625.22	1.16E+11	6.15E+10
4/29/22	19.98	109	29.781		107.67	8.61	1615.10	1.15E+11	6.11E+10
4/20/22	19.91	110	30.055		107.32	8.59	1609.73	1.14E+11	6.09E+10
4/21/22	19.62	111	30.328		105.75	8.46	1586.27	1.13E+11	6.00E+10
5/20/22	19.37	112	30.601		104.43	8.35	1566.43	1.11E+11	5.93E+10
2/14/22	19.22	113	30.874		103.57	8.29	1553.57	1.10E+11	5.88E+10
5/11/22	19.18	114	31.148		103.37	8.27	1550.61	1.10E+11	5.87E+10
4/30/22	19.01	115	31.421		102.45	8.20	1536.70	1.09E+11	5.81E+10
1/6/22	19.00	116	31.694		102.40	8.19	1535.97	1.09E+11	5.81E+10
5/16/22	18.26	117	31.967		98.41	7.87	1476.11	1.05E+11	5.58E+10
11/28/22	18.03	118	32.240		97.19	7.77	1457.79	1.04E+11	5.51E+10
4/22/22	17.97	119	32.514		96.87	7.75	1452.99	1.03E+11	5.50E+10
4/23/22	17.63	120	32.787		95.04	7.60	1425.63	1.01E+11	5.39E+10

date	S1 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
12/30/22	16.90	121	33.060		91.10	7.29	1366.45	9.72E+10	5.17E+10
5/30/22	16.79	122	33.333		90.52	7.24	1357.86	9.66E+10	5.14E+10
4/24/22	16.61	123	33.607		89.51	7.16	1342.65	9.55E+10	5.08E+10
5/12/22	16.55	124	33.880		89.18	7.13	1337.73	9.51E+10	5.06E+10
1/11/22	16.24	125	34.153		87.55	7.00	1313.26	9.34E+10	4.97E+10
8/31/22	15.57	126	34.426		83.92	6.71	1258.82	8.95E+10	4.76E+10
12/27/22	15.02	127	34.699		80.98	6.48	1214.73	8.64E+10	4.59E+10
5/14/22	14.72	128	34.973		79.36	6.35	1190.43	8.47E+10	4.50E+10
6/17/22	14.69	129	35.246		79.17	6.33	1187.60	8.45E+10	4.49E+10
5/13/22	14.61	130	35.519		78.77	6.30	1181.61	8.40E+10	4.47E+10
5/19/22	14.44	131	35.792		77.82	6.23	1167.25	8.30E+10	4.42E+10
5/15/22	14.38	132	36.066		77.53	6.20	1163.01	8.27E+10	4.40E+10
12/16/22	14.29	133	36.339		77.03	6.16	1155.44	8.22E+10	4.37E+10
2/10/22	14.24	134	36.612		76.78	6.14	1151.65	8.19E+10	4.36E+10
8/10/22	13.54	135	36.885		72.97	5.84	1094.56	7.78E+10	4.14E+10
1/7/22	13.47	136	37.158		72.59	5.81	1088.85	7.74E+10	4.12E+10
5/18/22	13.13	137	37.432		70.76	5.66	1061.44	7.55E+10	4.01E+10
1/12/22	13.01	138	37.705		70.13	5.61	1051.94	7.48E+10	3.98E+10
5/31/22	12.94	139	37.978		69.74	5.58	1046.12	7.44E+10	3.96E+10
12/26/22	12.93	140	38.251		69.71	5.58	1045.67	7.44E+10	3.96E+10
5/17/22	12.89	141	38.525		69.50	5.56	1042.44	7.41E+10	3.94E+10
2/15/22	12.70	142	38.798		68.47	5.48	1026.98	7.30E+10	3.88E+10
5/21/22	12.28	143	39.071		66.19	5.30	992.81	7.06E+10	3.76E+10
1/8/22	12.27	144	39.344		66.16	5.29	992.36	7.06E+10	3.75E+10
2/9/22	11.81	145	39.617		63.66	5.09	954.83	6.79E+10	3.61E+10
5/25/22	11.77	146	39.891		63.46	5.08	951.89	6.77E+10	3.60E+10
6/1/22	11.35	147	40.164		61.18	4.89	917.75	6.53E+10	3.47E+10
1/13/22	11.34	148	40.437		61.10	4.89	916.50	6.52E+10	3.47E+10
2/8/22	11.00	149	40.710		59.31	4.74	889.67	6.33E+10	3.37E+10
12/29/22	10.77	150	40.984		58.05	4.64	870.72	6.19E+10	3.29E+10
12/28/22	10.59	151	41.257		57.08	4.57	856.14	6.09E+10	3.24E+10
5/22/22	10.00	152	41.530		53.90	4.31	808.48	5.75E+10	3.06E+10
2/5/22	9.97	153	41.803		53.72	4.30	805.83	5.73E+10	3.05E+10
8/1/22	9.92	154	42.077		53.48	4.28	802.16	5.70E+10	3.03E+10
6/18/22	9.91	155	42.350		53.44	4.27	801.53	5.70E+10	3.03E+10
6/2/22	9.78	156	42.623		52.73	4.22	791.02	5.63E+10	2.99E+10
8/4/22	9.72	157	42.896		52.38	4.19	785.64	5.59E+10	2.97E+10
1/14/22	9.38	158	43.169		50.53	4.04	758.01	5.39E+10	2.87E+10
7/24/22	9.16	159	43.443		49.37	3.95	740.62	5.27E+10	2.80E+10
6/7/22	9.13	160	43.716		49.20	3.94	737.94	5.25E+10	2.79E+10
10/25/22	8.66	161	43.989		46.65	3.73	699.77	4.98E+10	2.65E+10
10/27/22	8.62	162	44.262		46.44	3.71	696.54	4.95E+10	2.63E+10
12/25/22	8.55	163	44.536		46.06	3.69	690.97	4.91E+10	2.61E+10
11/29/22	8.29	164	44.809		44.68	3.57	670.16	4.77E+10	2.53E+10
5/23/22	8.15	165	45.082		43.93	3.51	658.97	4.69E+10	2.49E+10
7/26/22	8.08	166	45.355		43.57	3.49	653.54	4.65E+10	2.47E+10
9/13/22	8.03	167	45.628		43.30	3.46	649.55	4.62E+10	2.46E+10
2/6/22	7.96	168	45.902		42.93	3.43	643.94	4.58E+10	2.44E+10
12/17/22	7.96	169	46.175		42.92	3.43	643.77	4.58E+10	2.44E+10
2/7/22	7.95	170	46.448		42.87	3.43	643.03	4.57E+10	2.43E+10
12/19/22	7.95	171	46.721		42.85	3.43	642.76	4.57E+10	2.43E+10
6/3/22	7.90	172	46.995		42.59	3.41	638.79	4.54E+10	2.42E+10
1/15/22	7.80	173	47.268		42.02	3.36	630.26	4.48E+10	2.38E+10
6/26/22	7.54	174	47.541		40.62	3.25	609.32	4.33E+10	2.30E+10
6/19/22	7.30	175	47.814		39.37	3.15	590.52	4.20E+10	2.23E+10
11/30/22	7.17	176	48.087		38.64	3.09	579.56	4.12E+10	2.19E+10
12/24/22	7.08	177	48.361		38.15	3.05	572.23	4.07E+10	2.16E+10
1/16/22	6.99	178	48.634		37.68	3.01	565.20	4.02E+10	2.14E+10
6/8/22	6.95	179	48.907		37.48	3.00	562.16	4.00E+10	2.13E+10
5/24/22	6.95	180	49.180		37.44	3.00	561.58	3.99E+10	2.12E+10

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6/6/22	6.81	181	49.454		36.71	2.94	550.70	3.92E+10	2.08E+10
8/11/22	6.74	182	49.727		36.31	2.91	544.71	3.87E+10	2.06E+10
6/11/22	6.70	183	50.000		36.13	2.89	541.93	3.85E+10	2.05E+10
7/27/22	6.37	184	50.273		34.34	2.75	515.13	3.66E+10	1.95E+10
6/4/22	6.35	185	50.546		34.23	2.74	513.44	3.65E+10	1.94E+10
6/9/22	6.30	186	50.820		33.98	2.72	509.67	3.62E+10	1.93E+10
8/2/22	6.13	187	51.093		33.03	2.64	495.38	3.52E+10	1.87E+10
6/10/22	5.95	188	51.366		32.07	2.57	480.99	3.42E+10	1.82E+10
8/5/22	5.93	189	51.639		31.95	2.56	479.31	3.41E+10	1.81E+10
12/23/22	5.87	190	51.913		31.65	2.53	474.75	3.38E+10	1.80E+10
7/28/22	5.85	191	52.186		31.52	2.52	472.87	3.36E+10	1.79E+10
9/1/22	5.80	192	52.459		31.26	2.50	468.94	3.33E+10	1.77E+10
6/20/22	5.73	193	52.732		30.87	2.47	463.03	3.29E+10	1.75E+10
6/5/22	5.71	194	53.005		30.77	2.46	461.49	3.28E+10	1.75E+10
12/14/22	5.65	195	53.279		30.43	2.43	456.51	3.25E+10	1.73E+10
12/18/22	5.64	196	53.552		30.37	2.43	455.62	3.24E+10	1.72E+10
8/29/22	5.61	197	53.825		30.22	2.42	453.34	3.22E+10	1.71E+10
1/17/22	5.32	198	54.098		28.69	2.30	430.32	3.06E+10	1.63E+10
7/9/22	5.28	199	54.372		28.48	2.28	427.17	3.04E+10	1.62E+10
6/21/22	5.04	200	54.645		27.18	2.17	407.66	2.90E+10	1.54E+10
6/27/22	4.89	201	54.918		26.36	2.11	395.36	2.81E+10	1.50E+10
12/21/22	4.87	202	55.191		26.25	2.10	393.71	2.80E+10	1.49E+10
8/12/22	4.84	203	55.464		26.09	2.09	391.35	2.78E+10	1.48E+10
6/22/22	4.79	204	55.738		25.81	2.06	387.14	2.75E+10	1.46E+10
12/1/22	4.55	205	56.011		24.54	1.96	368.15	2.62E+10	1.39E+10
8/14/22	4.55	206	56.284		24.53	1.96	367.92	2.62E+10	1.39E+10
2/1/22	4.48	207	56.557		24.15	1.93	362.31	2.58E+10	1.37E+10
9/14/22	4.48	208	56.831		24.12	1.93	361.83	2.57E+10	1.37E+10
7/29/22	4.47	209	57.104		24.08	1.93	361.26	2.57E+10	1.37E+10
10/28/22	4.38	210	57.377		23.59	1.89	353.78	2.52E+10	1.34E+10
6/23/22	4.05	211	57.650		21.80	1.74	327.07	2.33E+10	1.24E+10
12/20/22	4.04	212	57.923		21.78	1.74	326.73	2.32E+10	1.24E+10
12/22/22	4.02	213	58.197		21.69	1.74	325.33	2.31E+10	1.23E+10
8/21/22	3.99	214	58.470		21.53	1.72	322.96	2.30E+10	1.22E+10
1/18/22	3.94	215	58.743		21.21	1.70	318.17	2.26E+10	1.20E+10
12/10/22	3.90	216	59.016		21.03	1.68	315.41	2.24E+10	1.19E+10
12/2/22	3.77	217	59.290		20.34	1.63	305.07	2.17E+10	1.15E+10
8/15/22	3.74	218	59.563		20.18	1.61	302.71	2.15E+10	1.15E+10
8/3/22	3.71	219	59.836		20.01	1.60	300.14	2.13E+10	1.14E+10
8/13/22	3.64	220	60.109		19.61	1.57	294.21	2.09E+10	1.11E+10
8/20/22	3.64	221	60.383		19.59	1.57	293.90	2.09E+10	1.11E+10
7/30/22	3.50	222	60.656		18.88	1.51	283.18	2.01E+10	1.07E+10
12/3/22	3.49	223	60.929		18.80	1.50	281.93	2.00E+10	1.07E+10
8/16/22	3.42	224	61.202		18.43	1.47	276.48	1.97E+10	1.05E+10
7/8/22	3.41	225	61.475		18.37	1.47	275.52	1.96E+10	1.04E+10
9/2/22	3.37	226	61.749		18.19	1.45	272.80	1.94E+10	1.03E+10
7/10/22	3.33	227	62.022		17.96	1.44	269.39	1.92E+10	1.02E+10
8/23/22	3.30	228	62.295		17.78	1.42	266.68	1.90E+10	1.01E+10
9/19/22	3.29	229	62.568		17.74	1.42	266.15	1.89E+10	1.01E+10
1/31/22	3.24	230	62.842		17.49	1.40	262.28	1.87E+10	9.92E+09
12/7/22	3.22	231	63.115		17.37	1.39	260.53	1.85E+10	9.85E+09
10/29/22	3.18	232	63.388		17.16	1.37	257.34	1.83E+10	9.73E+09
10/18/22	3.18	233	63.661		17.14	1.37	257.14	1.83E+10	9.73E+09
12/6/22	3.15	234	63.934		16.99	1.36	254.82	1.81E+10	9.64E+09
12/9/22	3.13	235	64.208		16.88	1.35	253.26	1.80E+10	9.58E+09
12/11/22	3.13	236	64.481		16.86	1.35	252.94	1.80E+10	9.57E+09
10/19/22	3.13	237	64.754		16.86	1.35	252.83	1.80E+10	9.56E+09
12/5/22	3.12	238	65.027		16.83	1.35	252.42	1.80E+10	9.55E+09
9/15/22	3.06	239	65.301		16.48	1.32	247.18	1.76E+10	9.35E+09
12/4/22	3.04	240	65.574		16.40	1.31	245.95	1.75E+10	9.30E+09

date	S1 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/24/22	3.03	241	65.847		16.31	1.30	244.65	1.74E+10	9.25E+09
12/8/22	3.00	242	66.120		16.18	1.29	242.68	1.73E+10	9.18E+09
6/28/22	3.00	243	66.393		16.14	1.29	242.15	1.72E+10	9.16E+09
8/22/22	2.97	244	66.667		16.02	1.28	240.31	1.71E+10	9.09E+09
11/13/22	2.93	245	66.940		15.80	1.26	236.99	1.69E+10	8.96E+09
1/19/22	2.92	246	67.213		15.76	1.26	236.41	1.68E+10	8.94E+09
12/12/22	2.91	247	67.486		15.71	1.26	235.64	1.68E+10	8.91E+09
10/31/22	2.82	248	67.760		15.19	1.22	227.83	1.62E+10	8.62E+09
9/24/22	2.81	249	68.033		15.13	1.21	226.92	1.61E+10	8.58E+09
12/13/22	2.79	250	68.306		15.01	1.20	225.20	1.60E+10	8.52E+09
1/30/22	2.78	251	68.579		14.99	1.20	224.84	1.60E+10	8.50E+09
11/4/22	2.77	252	68.852		14.95	1.20	224.26	1.59E+10	8.48E+09
11/6/22	2.71	253	69.126		14.61	1.17	219.18	1.56E+10	8.29E+09
9/3/22	2.71	254	69.399		14.61	1.17	219.11	1.56E+10	8.29E+09
8/19/22	2.71	255	69.672		14.58	1.17	218.76	1.56E+10	8.27E+09
6/25/22	2.70	256	69.945		14.58	1.17	218.69	1.56E+10	8.27E+09
11/5/22	2.70	257	70.219		14.56	1.17	218.46	1.55E+10	8.26E+09
10/13/22	2.69	258	70.492		14.52	1.16	217.74	1.55E+10	8.24E+09
10/30/22	2.68	259	70.765		14.45	1.16	216.72	1.54E+10	8.20E+09
10/15/22	2.66	260	71.038		14.32	1.15	214.75	1.53E+10	8.12E+09
1/29/22	2.65	261	71.311		14.29	1.14	214.34	1.52E+10	8.11E+09
1/20/22	2.62	262	71.585		14.13	1.13	211.99	1.51E+10	8.02E+09
10/14/22	2.62	263	71.858		14.11	1.13	211.61	1.50E+10	8.00E+09
11/16/22	2.61	264	72.131		14.08	1.13	211.21	1.50E+10	7.99E+09
7/1/22	2.60	265	72.404		13.99	1.12	209.85	1.49E+10	7.94E+09
1/28/22	2.59	266	72.678		13.94	1.12	209.10	1.49E+10	7.91E+09
6/29/22	2.56	267	72.951		13.80	1.10	207.06	1.47E+10	7.83E+09
11/1/22	2.55	268	73.224		13.75	1.10	206.24	1.47E+10	7.80E+09
1/24/22	2.53	269	73.497		13.64	1.09	204.58	1.45E+10	7.74E+09
1/25/22	2.53	270	73.770		13.64	1.09	204.58	1.45E+10	7.74E+09
1/26/22	2.53	271	74.044		13.64	1.09	204.58	1.45E+10	7.74E+09
1/27/22	2.53	272	74.317		13.64	1.09	204.58	1.45E+10	7.74E+09
1/21/22	2.47	273	74.590		13.31	1.07	199.69	1.42E+10	7.55E+09
1/23/22	2.45	274	74.863		13.18	1.05	197.70	1.41E+10	7.48E+09
11/19/22	2.44	275	75.137		13.17	1.05	197.49	1.40E+10	7.47E+09
9/16/22	2.43	276	75.410		13.12	1.05	196.79	1.40E+10	7.44E+09
11/14/22	2.43	277	75.683		13.11	1.05	196.62	1.40E+10	7.44E+09
10/16/22	2.43	278	75.956		13.10	1.05	196.51	1.40E+10	7.43E+09
11/15/22	2.43	279	76.230		13.09	1.05	196.32	1.40E+10	7.43E+09
1/22/22	2.41	280	76.503		13.01	1.04	195.17	1.39E+10	7.38E+09
11/17/22	2.40	281	76.776		12.93	1.03	194.01	1.38E+10	7.34E+09
7/11/22	2.38	282	77.049		12.85	1.03	192.76	1.37E+10	7.29E+09
11/18/22	2.37	283	77.322		12.77	1.02	191.52	1.36E+10	7.24E+09
11/2/22	2.36	284	77.596		12.74	1.02	191.13	1.36E+10	7.23E+09
9/20/22	2.36	285	77.869		12.74	1.02	191.08	1.36E+10	7.23E+09
11/12/22	2.35	286	78.142		12.66	1.01	189.93	1.35E+10	7.18E+09
8/17/22	2.31	287	78.415		12.43	0.99	186.38	1.33E+10	7.05E+09
11/10/22	2.28	288	78.689		12.30	0.98	184.43	1.31E+10	6.98E+09
10/17/22	2.27	289	78.962		12.26	0.98	183.90	1.31E+10	6.96E+09
11/3/22	2.27	290	79.235		12.24	0.98	183.65	1.31E+10	6.95E+09
6/30/22	2.24	291	79.508		12.06	0.96	180.90	1.29E+10	6.84E+09
8/24/22	2.21	292	79.781		11.91	0.95	178.65	1.27E+10	6.76E+09
11/20/22	2.18	293	80.055		11.73	0.94	176.00	1.25E+10	6.66E+09
11/23/22	2.18	294	80.328		11.73	0.94	175.99	1.25E+10	6.66E+09
11/7/22	2.17	295	80.601		11.71	0.94	175.59	1.25E+10	6.64E+09
11/24/22	2.16	296	80.874		11.64	0.93	174.53	1.24E+10	6.60E+09
11/25/22	2.12	297	81.148		11.44	0.92	171.61	1.22E+10	6.49E+09
11/11/22	2.11	298	81.421		11.38	0.91	170.77	1.21E+10	6.46E+09
9/25/22	2.10	299	81.694		11.34	0.91	170.05	1.21E+10	6.43E+09
11/22/22	2.10	300	81.967		11.31	0.90	169.60	1.21E+10	6.42E+09

date	S1 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
11/8/22	2.09	301	82.240		11.27	0.90	168.98	1.20E+10	6.39E+09
10/12/22	2.08	302	82.514		11.22	0.90	168.27	1.20E+10	6.36E+09
8/6/22	2.07	303	82.787		11.18	0.89	167.66	1.19E+10	6.34E+09
11/21/22	2.05	304	83.060		11.03	0.88	165.44	1.18E+10	6.26E+09
9/22/22	2.04	305	83.333		11.00	0.88	164.99	1.17E+10	6.24E+09
8/27/22	1.94	306	83.607		10.48	0.84	157.18	1.12E+10	5.95E+09
11/26/22	1.92	307	83.880		10.35	0.83	155.18	1.10E+10	5.87E+09
9/23/22	1.91	308	84.153		10.31	0.82	154.60	1.10E+10	5.85E+09
9/17/22	1.88	309	84.426		10.15	0.81	152.25	1.08E+10	5.76E+09
8/8/22	1.88	310	84.699		10.14	0.81	152.16	1.08E+10	5.76E+09
8/7/22	1.86	311	84.973		10.03	0.80	150.46	1.07E+10	5.69E+09
10/20/22	1.83	312	85.246		9.84	0.79	147.67	1.05E+10	5.59E+09
9/4/22	1.82	313	85.519		9.82	0.79	147.32	1.05E+10	5.57E+09
7/18/22	1.81	314	85.792		9.77	0.78	146.51	1.04E+10	5.54E+09
9/21/22	1.79	315	86.066		9.65	0.77	144.74	1.03E+10	5.47E+09
7/2/22	1.75	316	86.339		9.44	0.76	141.60	1.01E+10	5.36E+09
9/26/22	1.72	317	86.612		9.28	0.74	139.22	9.90E+09	5.27E+09
7/19/22	1.72	318	86.885		9.26	0.74	138.95	9.88E+09	5.26E+09
9/18/22	1.70	319	87.158		9.16	0.73	137.46	9.78E+09	5.20E+09
9/5/22	1.68	320	87.432		9.08	0.73	136.18	9.68E+09	5.15E+09
9/27/22	1.60	321	87.705		8.61	0.69	129.19	9.19E+09	4.89E+09
10/24/22	1.55	322	87.978		8.35	0.67	125.25	8.91E+09	4.74E+09
7/12/22	1.47	323	88.251		7.91	0.63	118.67	8.44E+09	4.49E+09
7/3/22	1.42	324	88.525		7.65	0.61	114.82	8.17E+09	4.34E+09
7/31/22	1.38	325	88.798		7.45	0.60	111.82	7.95E+09	4.23E+09
9/6/22	1.36	326	89.071		7.31	0.58	109.67	7.80E+09	4.15E+09
10/4/22	1.34	327	89.344		7.24	0.58	108.53	7.72E+09	4.11E+09
8/18/22	1.31	328	89.617		7.06	0.56	105.89	7.53E+09	4.01E+09
9/29/22	1.17	329	89.891		6.28	0.50	94.27	6.70E+09	3.57E+09
10/10/22	1.14	330	90.164		6.15	0.49	92.19	6.56E+09	3.49E+09
7/4/22	1.09	331	90.437		5.88	0.47	88.14	6.27E+09	3.33E+09
10/9/22	1.08	332	90.710		5.83	0.47	87.44	6.22E+09	3.31E+09
8/25/22	1.07	333	90.984		5.75	0.46	86.19	6.13E+09	3.26E+09
9/7/22	1.03	334	91.257		5.54	0.44	83.16	5.91E+09	3.15E+09
10/11/22	0.90	335	91.530		4.83	0.39	72.44	5.15E+09	2.74E+09
11/9/22	0.89	336	91.803		4.80	0.38	71.99	5.12E+09	2.72E+09
10/5/22	0.78	337	92.077		4.21	0.34	63.16	4.49E+09	2.39E+09
9/28/22	0.72	338	92.350		3.87	0.31	58.11	4.13E+09	2.20E+09
10/23/22	0.69	339	92.623		3.73	0.30	55.93	3.98E+09	2.12E+09
10/1/22	0.64	340	92.896		3.43	0.27	51.39	3.65E+09	1.94E+09
10/8/22	0.59	341	93.169		3.19	0.26	47.92	3.41E+09	1.81E+09
7/17/22	0.56	342	93.443		3.03	0.24	45.43	3.23E+09	1.72E+09
10/21/22	0.56	343	93.716		3.03	0.24	45.42	3.23E+09	1.72E+09
7/6/22	0.54	344	93.989		2.92	0.23	43.80	3.11E+09	1.66E+09
7/7/22	0.54	345	94.262		2.91	0.23	43.68	3.11E+09	1.65E+09
8/28/22	0.43	346	94.536		2.33	0.19	35.01	2.49E+09	1.32E+09
9/8/22	0.41	347	94.809		2.23	0.18	33.42	2.38E+09	1.26E+09
10/3/22	0.38	348	95.082		2.04	0.16	30.59	2.18E+09	1.16E+09
9/30/22	0.37	349	95.355		1.99	0.16	29.83	2.12E+09	1.13E+09
9/10/22	0.35	350	95.628		1.89	0.15	28.36	2.02E+09	1.07E+09
7/22/22	0.32	351	95.902		1.74	0.14	26.14	1.86E+09	9.89E+08
7/21/22	0.32	352	96.175		1.71	0.14	25.58	1.82E+09	9.68E+08
7/14/22	0.31	353	96.448		1.68	0.13	25.22	1.79E+09	9.54E+08
10/7/22	0.31	354	96.721		1.67	0.13	25.06	1.78E+09	9.48E+08
7/23/22	0.31	355	96.995		1.66	0.13	24.83	1.77E+09	9.39E+08
8/26/22	0.31	356	97.268		1.65	0.13	24.75	1.76E+09	9.36E+08
7/16/22	0.29	357	97.541		1.55	0.12	23.24	1.65E+09	8.79E+08
10/22/22	0.27	358	97.814		1.48	0.12	22.21	1.58E+09	8.40E+08
7/13/22	0.27	359	98.087		1.48	0.12	22.19	1.58E+09	8.39E+08
10/6/22	0.26	360	98.361		1.40	0.11	21.04	1.50E+09	7.96E+08

date	S1 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
7/5/22	0.24	361	98.634		1.29	0.10	19.42	1.38E+09	7.35E+08
7/20/22	0.21	362	98.907		1.15	0.09	17.26	1.23E+09	6.53E+08
10/2/22	0.19	363	99.180		1.00	0.08	15.04	1.07E+09	5.69E+08
7/15/22	0.18	364	99.454		0.97	0.08	14.57	1.04E+09	5.51E+08
9/9/22	0.09	365	99.727		0.49	0.04	7.32	5.21E+08	2.77E+08
<b>TOTAL NUMBER</b>	365								
					1.00	0.08	15.00	235.00	125.00
					5.39	5.39	5.39	24465758.40	24465758.40

Date	Flow	NO3_N (mg/L)	TP (mg/L)	TSS (mg/L)	Ecoli (col/100 mL)
1/26/22	2.53	3.96	0.077	12	1413.6
2/23/22	107.62	2.29	0.418	14	448.4
3/23/22	303.56	4.06	1.32	68	1011.2
4/27/22	28.31	4.83	0.194	3	71.4
5/24/22	6.95	4.24	0.191	3	101
6/27/22	4.89	4.87	0.222	2	280.9
7/25/22	6.37	2.39	1.46	3	2419.6
8/22/22	2.97	9.51	4.29	3	48
9/28/22	0.72	10.1	0.618	4	78.5
10/24/22	1.55	5.2	0.199	4	93.3
11/16/22	2.61	9.4	0.011	3	2419.6
12/21/22	4.87	6.15	0.06	5	866.4



% Flow Exceed	NO3 Act Load	TP Act Load	TSS Act Load	Ecoli Act Load	Ann Load Proxy Range		
74.04371585	54.00834608	1.05016228	163.6616548	8.75E+10		28	
3.551912568	1328.365241	242.470162	8121.01021	1.18E+12		28	
1.092896175	6642.919034	2159.76678	111260.7129	7.51E+12		35	
21.03825137	736.9123537	29.59855	457.7095364	4.94E+10		27	
49.18032787	158.7385706	7.15072335	112.3150264	1.72E+10		34	
54.91803279	128.3590003	5.8512727	52.71416851	3.36E+10		28	
21.8579235	82.07723922	50.139234	103.0258233	3.77E+11		28	
66.66666667	152.3581161	68.729371	48.06249718	3.49E+09		37	
92.34972678	39.12999944	2.39429105	15.49702948	1.38E+09		26	
87.97814208	43.42167874	1.66171424	33.40129134	3.54E+09		23	
72.13114754	132.3602479	0.15488965	42.2426323	1.55E+11		35	
55.19125683	161.4216625	1.57484549	131.237124	1.03E+11		35	

NO3 Ann Load	TP Ann Load	TSS Ann Load	Ecoli Ann Load
1512.23369	29.40454398	4582.526334	2.45E+12
37194.22676	6789.164535	227388.2859	3.31E+13
232502.1662	75591.83728	3894124.951	2.63E+14
19896.63355	799.1608506	12358.15748	1.34E+12
5397.111402	243.1245938	3818.710897	5.84E+11
3594.052009	163.8356357	1475.996718	9.41E+11
2298.162698	1403.898552	2884.723052	1.06E+13
5637.250294	2542.986726	1778.312396	1.29E+11
1017.379985	62.25156742	402.9227665	3.59E+10
998.698611	38.21942761	768.2297008	8.13E+10
4632.608675	5.421137812	1478.49213	5.41E+12
5649.758188	55.11959207	4593.299339	3.61E+12

date	S2	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
2/18/22	2658.41	1	0.273		14328.82	1146.31	214932.37	1.53E+13	8.13E+12
2/17/22	2600.62	2	0.546		14017.32	1121.39	210259.79	1.50E+13	7.95E+12
3/7/22	1630.60	3	0.820		8788.92	703.11	131833.80	9.38E+12	4.99E+12
3/8/22	1608.53	4	1.093		8669.95	693.60	130049.27	9.25E+12	4.92E+12
3/23/22	1515.07	5	1.366		8166.24	653.30	122493.62	8.71E+12	4.63E+12
2/19/22	1166.78	6	1.639		6288.93	503.11	94333.88	6.71E+12	3.57E+12
3/24/22	1151.67	7	1.913		6207.53	496.60	93112.92	6.62E+12	3.52E+12
1/2/22	1112.83	8	2.186		5998.13	479.85	89971.98	6.40E+12	3.40E+12
5/7/22	1102.26	9	2.459		5941.17	475.29	89117.62	6.34E+12	3.37E+12
2/23/22	1092.96	10	2.732		5891.05	471.28	88365.78	6.28E+12	3.34E+12
2/16/22	1002.21	11	3.005		5401.92	432.15	81028.84	5.76E+12	3.06E+12
2/22/22	987.10	12	3.279		5320.44	425.64	79806.64	5.68E+12	3.02E+12
5/4/22	928.88	13	3.552		5006.66	400.53	75099.88	5.34E+12	2.84E+12
5/6/22	897.60	14	3.825		4838.06	387.05	72570.97	5.16E+12	2.75E+12
3/9/22	854.18	15	4.098		4604.02	368.32	69060.33	4.91E+12	2.61E+12
2/21/22	713.96	16	4.372		3848.25	307.86	57723.73	4.10E+12	2.18E+12
1/3/22	706.05	17	4.645		3805.58	304.45	57083.74	4.06E+12	2.16E+12
2/20/22	702.63	18	4.918		3787.15	302.97	56807.24	4.04E+12	2.15E+12
5/27/22	695.59	19	5.191		3749.25	299.94	56238.70	4.00E+12	2.13E+12
3/25/22	670.85	20	5.464		3615.86	289.27	54237.94	3.86E+12	2.05E+12
5/8/22	633.53	21	5.738		3414.75	273.18	51221.27	3.64E+12	1.94E+12
2/24/22	588.77	22	6.011		3173.46	253.88	47601.89	3.39E+12	1.80E+12
5/5/22	562.56	23	6.284		3032.20	242.58	45483.07	3.23E+12	1.72E+12
1/1/22	560.14	24	6.557		3019.16	241.53	45287.35	3.22E+12	1.71E+12
3/10/22	538.35	25	6.831		2901.72	232.14	43525.81	3.10E+12	1.65E+12
5/2/22	499.01	26	7.104		2689.65	215.17	40344.79	2.87E+12	1.53E+12
3/26/22	472.22	27	7.377		2545.27	203.62	38179.06	2.72E+12	1.44E+12
5/3/22	469.70	28	7.650		2531.70	202.54	37975.57	2.70E+12	1.44E+12
2/12/22	441.38	29	7.923		2379.06	190.32	35685.88	2.54E+12	1.35E+12
5/28/22	438.51	30	8.197		2363.57	189.09	35453.50	2.52E+12	1.34E+12
1/4/22	428.03	31	8.470		2307.09	184.57	34606.28	2.46E+12	1.31E+12
2/25/22	395.82	32	8.743		2133.46	170.68	32001.88	2.28E+12	1.21E+12
5/9/22	384.96	33	9.016		2074.95	166.00	31124.21	2.21E+12	1.18E+12
6/12/22	375.92	34	9.290		2026.23	162.10	30393.50	2.16E+12	1.15E+12
3/11/22	370.93	35	9.563		1999.29	159.94	29989.31	2.13E+12	1.13E+12
6/14/22	358.86	36	9.836		1934.27	154.74	29014.10	2.06E+12	1.10E+12
3/2/22	358.34	37	10.109		1931.48	154.52	28972.16	2.06E+12	1.10E+12
3/1/22	357.59	38	10.383		1927.40	154.19	28910.95	2.06E+12	1.09E+12
3/27/22	357.21	39	10.656		1925.35	154.03	28880.20	2.05E+12	1.09E+12
5/1/22	336.18	40	10.929		1811.99	144.96	27179.86	1.93E+12	1.03E+12
2/13/22	330.79	41	11.202		1782.97	142.64	26744.61	1.90E+12	1.01E+12
4/15/22	329.43	42	11.475		1775.64	142.05	26634.63	1.89E+12	1.01E+12
1/5/22	328.06	43	11.749		1768.23	141.46	26523.40	1.89E+12	1.00E+12
4/14/22	311.28	44	12.022		1677.82	134.23	25167.30	1.79E+12	9.52E+11
5/16/22	311.28	45	12.295		1677.80	134.22	25166.99	1.79E+12	9.52E+11
2/28/22	306.24	46	12.568		1650.63	132.05	24759.38	1.76E+12	9.37E+11
2/3/22	304.71	47	12.842		1642.36	131.39	24635.42	1.75E+12	9.32E+11
6/13/22	302.90	48	13.115		1632.63	130.61	24489.40	1.74E+12	9.26E+11
3/22/22	298.03	49	13.388		1606.39	128.51	24095.78	1.71E+12	9.11E+11
3/20/22	296.97	50	13.661		1600.67	128.05	24010.03	1.71E+12	9.08E+11
3/3/22	292.14	51	13.934		1574.63	125.97	23619.51	1.68E+12	8.93E+11
3/28/22	271.74	52	14.208		1464.65	117.17	21969.81	1.56E+12	8.31E+11
3/12/22	270.77	53	14.481		1459.43	116.75	21891.52	1.56E+12	8.28E+11
2/26/22	269.73	54	14.754		1453.86	116.31	21807.95	1.55E+12	8.25E+11
5/10/22	263.27	55	15.027		1419.01	113.52	21285.08	1.51E+12	8.05E+11
5/29/22	258.35	56	15.301		1392.52	111.40	20887.73	1.49E+12	7.90E+11
4/7/22	256.47	57	15.574		1382.37	110.59	20735.50	1.47E+12	7.84E+11
2/27/22	255.95	58	15.847		1379.57	110.37	20693.55	1.47E+12	7.83E+11
3/21/22	249.89	59	16.120		1346.89	107.75	20203.31	1.44E+12	7.64E+11

date	S2	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
3/31/22	244.56	60	16.393		1318.20	105.46	19773.02	1.41E+12	7.48E+11
6/15/22	241.46	61	16.667		1301.47	104.12	19521.99	1.39E+12	7.38E+11
1/6/22	238.64	62	16.940		1286.28	102.90	19294.27	1.37E+12	7.30E+11
4/8/22	235.38	63	17.213		1268.72	101.50	19030.81	1.35E+12	7.20E+11
4/26/22	230.77	64	17.486		1243.83	99.51	18657.38	1.33E+12	7.06E+11
3/19/22	223.55	65	17.760		1204.93	96.39	18073.93	1.29E+12	6.84E+11
3/29/22	223.26	66	18.033		1203.35	96.27	18050.32	1.28E+12	6.83E+11
3/4/22	222.12	67	18.306		1197.20	95.78	17958.05	1.28E+12	6.79E+11
4/16/22	219.96	68	18.579		1185.56	94.85	17783.45	1.26E+12	6.73E+11
4/25/22	217.56	69	18.852		1172.64	93.81	17589.58	1.25E+12	6.65E+11
4/1/22	214.04	70	19.126		1153.69	92.30	17305.31	1.23E+12	6.55E+11
3/30/22	208.64	71	19.399		1124.57	89.97	16868.50	1.20E+12	6.38E+11
5/17/22	205.43	72	19.672		1107.29	88.58	16609.40	1.18E+12	6.28E+11
3/13/22	204.77	73	19.945		1103.69	88.30	16555.34	1.18E+12	6.26E+11
5/11/22	203.81	74	20.219		1098.55	87.88	16478.29	1.17E+12	6.23E+11
1/10/22	202.89	75	20.492		1093.58	87.49	16403.73	1.17E+12	6.20E+11
2/2/22	199.29	76	20.765		1074.15	85.93	16112.26	1.15E+12	6.09E+11
4/9/22	197.13	77	21.038		1062.51	85.00	15937.72	1.13E+12	6.03E+11
3/5/22	194.68	78	21.311		1049.34	83.95	15740.13	1.12E+12	5.95E+11
1/9/22	189.61	79	21.585		1022.00	81.76	15330.03	1.09E+12	5.80E+11
2/14/22	188.59	80	21.858		1016.51	81.32	15247.69	1.08E+12	5.77E+11
5/30/22	187.05	81	22.131		1008.19	80.65	15122.81	1.08E+12	5.72E+11
3/6/22	186.81	82	22.404		1006.90	80.55	15103.55	1.07E+12	5.71E+11
5/26/22	184.72	83	22.678		995.64	79.65	14934.54	1.06E+12	5.65E+11
1/7/22	183.79	84	22.951		990.65	79.25	14859.72	1.06E+12	5.62E+11
5/15/22	183.63	85	23.224		989.75	79.18	14846.31	1.06E+12	5.62E+11
4/2/22	179.35	86	23.497		966.68	77.33	14500.21	1.03E+12	5.48E+11
4/10/22	175.55	87	23.770		946.24	75.70	14193.58	1.01E+12	5.37E+11
3/14/22	173.28	88	24.044		933.96	74.72	14009.35	9.96E+11	5.30E+11
5/12/22	172.53	89	24.317		929.94	74.40	13949.07	9.92E+11	5.28E+11
2/4/22	171.38	90	24.590		923.72	73.90	13855.74	9.85E+11	5.24E+11
4/3/22	168.13	91	24.863		906.22	72.50	13593.35	9.67E+11	5.14E+11
4/17/22	167.78	92	25.137		904.32	72.35	13564.77	9.65E+11	5.13E+11
4/27/22	164.86	93	25.410		888.62	71.09	13329.27	9.48E+11	5.04E+11
4/11/22	163.83	94	25.683		883.03	70.64	13245.39	9.42E+11	5.01E+11
4/6/22	158.34	95	25.956		853.43	68.27	12801.43	9.10E+11	4.84E+11
5/18/22	157.09	96	26.230		846.70	67.74	12700.46	9.03E+11	4.80E+11
5/20/22	155.59	97	26.503		838.64	67.09	12579.61	8.95E+11	4.76E+11
4/4/22	153.84	98	26.776		829.22	66.34	12438.25	8.85E+11	4.70E+11
5/13/22	152.89	99	27.049		824.10	65.93	12361.52	8.79E+11	4.68E+11
3/15/22	152.71	100	27.322		823.13	65.85	12346.91	8.78E+11	4.67E+11
6/16/22	149.43	101	27.596		805.44	64.44	12081.60	8.59E+11	4.57E+11
5/31/22	148.88	102	27.869		802.44	64.19	12036.55	8.56E+11	4.55E+11
4/18/22	148.84	103	28.142		802.27	64.18	12034.06	8.56E+11	4.55E+11
5/19/22	148.58	104	28.415		800.86	64.07	12012.94	8.54E+11	4.54E+11
4/12/22	148.01	105	28.689		797.78	63.82	11966.65	8.51E+11	4.53E+11
4/5/22	147.03	106	28.962		792.47	63.40	11887.11	8.45E+11	4.50E+11
5/21/22	145.70	107	29.235		785.35	62.83	11780.24	8.38E+11	4.46E+11
5/14/22	145.44	108	29.508		783.90	62.71	11758.49	8.36E+11	4.45E+11
4/13/22	144.75	109	29.781		780.19	62.42	11702.88	8.32E+11	4.43E+11
1/12/22	142.69	110	30.055		769.09	61.53	11536.30	8.20E+11	4.36E+11
3/16/22	141.14	111	30.328		760.76	60.86	11411.47	8.11E+11	4.32E+11
1/8/22	140.55	112	30.601		757.55	60.60	11363.31	8.08E+11	4.30E+11
4/19/22	138.76	113	30.874		747.90	59.83	11218.54	7.98E+11	4.24E+11
1/13/22	137.33	114	31.148		740.22	59.22	11103.28	7.90E+11	4.20E+11
3/17/22	134.86	115	31.421		726.92	58.15	10903.82	7.75E+11	4.12E+11
4/28/22	134.73	116	31.694		726.22	58.10	10893.26	7.75E+11	4.12E+11
1/11/22	133.91	117	31.967		721.76	57.74	10826.46	7.70E+11	4.10E+11
3/18/22	132.03	118	32.240		711.66	56.93	10674.85	7.59E+11	4.04E+11

date	S2	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/1/22	127.12	119	32.514		685.19	54.81	10277.81	7.31E+11	3.89E+11
1/14/22	124.55	120	32.787		671.31	53.70	10069.65	7.16E+11	3.81E+11
4/20/22	123.08	121	33.060		663.40	53.07	9950.98	7.08E+11	3.76E+11
2/5/22	122.10	122	33.333		658.14	52.65	9872.06	7.02E+11	3.73E+11
4/29/22	120.52	123	33.607		649.60	51.97	9744.06	6.93E+11	3.69E+11
2/11/22	118.10	124	33.880		636.56	50.92	9548.34	6.79E+11	3.61E+11
4/21/22	117.45	125	34.153		633.06	50.64	9495.83	6.75E+11	3.59E+11
5/22/22	117.10	126	34.426		631.19	50.50	9467.87	6.73E+11	3.58E+11
6/2/22	116.03	127	34.699		625.41	50.03	9381.19	6.67E+11	3.55E+11
6/17/22	112.78	128	34.973		607.89	48.63	9118.36	6.48E+11	3.45E+11
4/30/22	112.67	129	35.246		607.29	48.58	9109.35	6.48E+11	3.45E+11
1/15/22	111.88	130	35.519		603.04	48.24	9045.66	6.43E+11	3.42E+11
4/22/22	111.01	131	35.792		598.34	47.87	8975.14	6.38E+11	3.39E+11
2/15/22	106.06	132	36.066		571.65	45.73	8574.68	6.10E+11	3.24E+11
6/3/22	105.35	133	36.339		567.83	45.43	8517.51	6.06E+11	3.22E+11
4/24/22	104.85	134	36.612		565.16	45.21	8477.44	6.03E+11	3.21E+11
4/23/22	104.17	135	36.885		561.45	44.92	8421.82	5.99E+11	3.19E+11
2/6/22	103.66	136	37.158		558.72	44.70	8380.82	5.96E+11	3.17E+11
5/23/22	102.48	137	37.432		552.36	44.19	8285.44	5.89E+11	3.13E+11
1/16/22	101.45	138	37.705		546.83	43.75	8202.49	5.83E+11	3.10E+11
5/24/22	95.73	139	37.978		515.97	41.28	7739.58	5.50E+11	2.93E+11
6/4/22	95.36	140	38.251		513.98	41.12	7709.75	5.48E+11	2.92E+11
5/25/22	95.16	141	38.525		512.93	41.03	7693.91	5.47E+11	2.91E+11
2/10/22	93.86	142	38.798		505.89	40.47	7588.28	5.40E+11	2.87E+11
6/18/22	93.59	143	39.071		504.48	40.36	7567.15	5.38E+11	2.86E+11
1/17/22	93.51	144	39.344		504.04	40.32	7560.63	5.38E+11	2.86E+11
2/9/22	91.88	145	39.617		495.24	39.62	7428.57	5.28E+11	2.81E+11
6/7/22	91.51	146	39.891		493.23	39.46	7398.46	5.26E+11	2.80E+11
1/18/22	90.01	147	40.164		485.15	38.81	7277.29	5.18E+11	2.75E+11
2/7/22	88.90	148	40.437		479.19	38.34	7187.82	5.11E+11	2.72E+11
6/5/22	88.60	149	40.710		477.57	38.21	7163.58	5.09E+11	2.71E+11
6/6/22	87.85	150	40.984		473.53	37.88	7103.00	5.05E+11	2.69E+11
6/8/22	87.31	151	41.257		470.61	37.65	7059.20	5.02E+11	2.67E+11
2/8/22	84.85	152	41.530		457.32	36.59	6859.74	4.88E+11	2.59E+11
1/19/22	82.45	153	41.803		444.39	35.55	6665.88	4.74E+11	2.52E+11
6/19/22	81.33	154	42.077		438.39	35.07	6575.78	4.68E+11	2.49E+11
6/9/22	80.63	155	42.350		434.60	34.77	6518.93	4.64E+11	2.47E+11
6/11/22	79.33	156	42.623		427.59	34.21	6413.92	4.56E+11	2.43E+11
6/10/22	75.70	157	42.896		408.02	32.64	6120.33	4.35E+11	2.32E+11
6/20/22	73.77	158	43.169		397.62	31.81	5964.37	4.24E+11	2.26E+11
1/20/22	71.01	159	43.443		382.75	30.62	5741.31	4.08E+11	2.17E+11
8/30/22	70.39	160	43.716		379.40	30.35	5690.98	4.05E+11	2.15E+11
12/31/22	69.92	161	43.989		376.85	30.15	5652.76	4.02E+11	2.14E+11
8/31/22	69.10	162	44.262		372.46	29.80	5586.90	3.97E+11	2.11E+11
6/21/22	68.38	163	44.536		368.59	29.49	5528.80	3.93E+11	2.09E+11
6/22/22	65.64	164	44.809		353.78	28.30	5306.67	3.77E+11	2.01E+11
1/21/22	63.82	165	45.082		343.98	27.52	5159.72	3.67E+11	1.95E+11
1/28/22	63.08	166	45.355		340.00	27.20	5100.07	3.63E+11	1.93E+11
2/1/22	62.90	167	45.628		339.01	27.12	5085.16	3.62E+11	1.92E+11
1/23/22	62.71	168	45.902		338.02	27.04	5070.24	3.61E+11	1.92E+11
6/23/22	62.71	169	46.175		338.02	27.04	5070.24	3.61E+11	1.92E+11
6/26/22	62.48	170	46.448		336.75	26.94	5051.29	3.59E+11	1.91E+11
1/24/22	62.16	171	46.721		335.03	26.80	5025.51	3.57E+11	1.90E+11
1/27/22	61.61	172	46.995		332.05	26.56	4980.77	3.54E+11	1.88E+11
6/27/22	61.02	173	47.268		328.90	26.31	4933.55	3.51E+11	1.87E+11
1/30/22	60.50	174	47.541		326.09	26.09	4891.29	3.48E+11	1.85E+11
1/31/22	60.50	175	47.814		326.09	26.09	4891.29	3.48E+11	1.85E+11
6/24/22	59.48	176	48.087		320.62	25.65	4809.28	3.42E+11	1.82E+11
1/26/22	59.39	177	48.361		320.12	25.61	4801.82	3.41E+11	1.82E+11

date	S2	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
1/29/22	59.39	178	48.634		320.12	25.61	4801.82	3.41E+11	1.82E+11
1/22/22	59.02	179	48.907		318.13	25.45	4771.99	3.39E+11	1.81E+11
1/25/22	59.02	180	49.180		318.13	25.45	4771.99	3.39E+11	1.81E+11
6/25/22	55.93	181	49.454		301.44	24.12	4521.59	3.22E+11	1.71E+11
6/28/22	53.05	182	49.727		285.93	22.87	4288.89	3.05E+11	1.62E+11
8/4/22	46.73	183	50.000		251.87	20.15	3777.98	2.69E+11	1.43E+11
6/29/22	46.01	184	50.273		248.00	19.84	3720.04	2.65E+11	1.41E+11
6/30/22	41.66	185	50.546		224.56	17.96	3368.36	2.40E+11	1.27E+11
9/12/22	41.39	186	50.820		223.11	17.85	3346.64	2.38E+11	1.27E+11
8/10/22	37.86	187	51.093		204.06	16.33	3060.94	2.18E+11	1.16E+11
7/1/22	37.60	188	51.366		202.65	16.21	3039.72	2.16E+11	1.15E+11
7/2/22	37.26	189	51.639		200.81	16.06	3012.17	2.14E+11	1.14E+11
12/16/22	35.54	190	51.913		191.54	15.32	2873.14	2.04E+11	1.09E+11
7/3/22	34.81	191	52.186		187.65	15.01	2814.70	2.00E+11	1.06E+11
7/9/22	32.31	192	52.459		174.16	13.93	2612.36	1.86E+11	9.88E+10
7/4/22	32.05	193	52.732		172.77	13.82	2591.51	1.84E+11	9.80E+10
7/10/22	31.93	194	53.005		172.11	13.77	2581.72	1.84E+11	9.77E+10
9/1/22	31.28	195	53.279		168.60	13.49	2529.03	1.80E+11	9.57E+10
11/28/22	30.76	196	53.552		165.81	13.26	2487.15	1.77E+11	9.41E+10
7/26/22	30.62	197	53.825		165.07	13.21	2476.00	1.76E+11	9.37E+10
12/30/22	30.58	198	54.098		164.80	13.18	2472.02	1.76E+11	9.35E+10
8/5/22	30.02	199	54.372		161.78	12.94	2426.76	1.73E+11	9.18E+10
7/5/22	29.82	200	54.645		160.72	12.86	2410.82	1.71E+11	9.12E+10
7/8/22	29.27	201	54.918		157.78	12.62	2366.64	1.68E+11	8.95E+10
10/27/22	29.26	202	55.191		157.72	12.62	2365.77	1.68E+11	8.95E+10
9/13/22	28.83	203	55.464		155.38	12.43	2330.63	1.66E+11	8.82E+10
8/11/22	28.45	204	55.738		153.36	12.27	2300.34	1.64E+11	8.70E+10
7/19/22	28.40	205	56.011		153.05	12.24	2295.81	1.63E+11	8.68E+10
12/17/22	27.70	206	56.284		149.29	11.94	2239.33	1.59E+11	8.47E+10
11/29/22	27.05	207	56.557		145.79	11.66	2186.85	1.56E+11	8.27E+10
7/11/22	26.89	208	56.831		144.94	11.60	2174.08	1.55E+11	8.22E+10
7/6/22	26.57	209	57.104		143.19	11.46	2147.89	1.53E+11	8.12E+10
7/7/22	25.85	210	57.377		139.32	11.15	2089.86	1.49E+11	7.91E+10
7/27/22	25.67	211	57.650		138.37	11.07	2075.54	1.48E+11	7.85E+10
8/9/22	24.73	212	57.923		133.28	10.66	1999.14	1.42E+11	7.56E+10
7/18/22	24.38	213	58.197		131.41	10.51	1971.21	1.40E+11	7.46E+10
7/12/22	24.06	214	58.470		129.69	10.38	1945.40	1.38E+11	7.36E+10
7/20/22	23.96	215	58.743		129.17	10.33	1937.54	1.38E+11	7.33E+10
8/6/22	23.51	216	59.016		126.73	10.14	1900.94	1.35E+11	7.19E+10
7/25/22	22.52	217	59.290		121.37	9.71	1820.53	1.29E+11	6.89E+10
8/12/22	22.43	218	59.563		120.92	9.67	1813.76	1.29E+11	6.86E+10
7/17/22	22.28	219	59.836		120.08	9.61	1801.24	1.28E+11	6.81E+10
8/14/22	21.93	220	60.109		118.21	9.46	1773.22	1.26E+11	6.71E+10
7/28/22	21.63	221	60.383		116.56	9.32	1748.40	1.24E+11	6.61E+10
8/3/22	21.25	222	60.656		114.54	9.16	1718.14	1.22E+11	6.50E+10
11/30/22	21.12	223	60.929		113.83	9.11	1707.42	1.21E+11	6.46E+10
8/2/22	21.03	224	61.202		113.38	9.07	1700.68	1.21E+11	6.43E+10
12/18/22	20.93	225	61.475		112.83	9.03	1692.38	1.20E+11	6.40E+10
7/13/22	20.43	226	61.749		110.12	8.81	1651.74	1.17E+11	6.25E+10
12/15/22	20.19	227	62.022		108.82	8.71	1632.30	1.16E+11	6.17E+10
7/29/22	20.14	228	62.295		108.53	8.68	1628.01	1.16E+11	6.16E+10
9/14/22	20.03	229	62.568		107.95	8.64	1619.31	1.15E+11	6.13E+10
7/14/22	19.79	230	62.842		106.69	8.54	1600.42	1.14E+11	6.05E+10
7/16/22	19.76	231	63.115		106.49	8.52	1597.28	1.14E+11	6.04E+10
7/21/22	19.48	232	63.388		105.01	8.40	1575.22	1.12E+11	5.96E+10
11/27/22	18.91	233	63.661		101.90	8.15	1528.50	1.09E+11	5.78E+10
9/2/22	18.87	234	63.934		101.69	8.14	1525.39	1.08E+11	5.77E+10
8/13/22	18.86	235	64.208		101.65	8.13	1524.74	1.08E+11	5.77E+10
8/15/22	18.81	236	64.481		101.40	8.11	1521.07	1.08E+11	5.75E+10

date	S2	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
7/15/22	18.49	237	64.754		99.69	7.97	1495.29	1.06E+11	5.66E+10
8/7/22	18.18	238	65.027		98.00	7.84	1470.06	1.05E+11	5.56E+10
12/20/22	18.18	239	65.301		97.98	7.84	1469.69	1.05E+11	5.56E+10
7/30/22	18.04	240	65.574		97.22	7.78	1458.35	1.04E+11	5.52E+10
8/29/22	17.95	241	65.847		96.73	7.74	1450.89	1.03E+11	5.49E+10
12/1/22	17.70	242	66.120		95.38	7.63	1430.76	1.02E+11	5.41E+10
8/1/22	17.62	243	66.393		94.96	7.60	1424.45	1.01E+11	5.39E+10
8/16/22	17.36	244	66.667		93.59	7.49	1403.82	9.98E+10	5.31E+10
10/28/22	17.23	245	66.940		92.85	7.43	1392.70	9.90E+10	5.27E+10
10/26/22	17.13	246	67.213		92.31	7.38	1384.62	9.85E+10	5.24E+10
8/21/22	17.10	247	67.486		92.15	7.37	1382.23	9.83E+10	5.23E+10
7/24/22	16.99	248	67.760		91.56	7.33	1373.47	9.77E+10	5.20E+10
7/22/22	16.92	249	68.033		91.21	7.30	1368.16	9.73E+10	5.18E+10
12/24/22	16.82	250	68.306		90.65	7.25	1359.70	9.67E+10	5.14E+10
8/22/22	16.63	251	68.579		89.62	7.17	1344.24	9.56E+10	5.08E+10
12/29/22	16.58	252	68.852		89.39	7.15	1340.79	9.53E+10	5.07E+10
7/31/22	16.38	253	69.126		88.26	7.06	1323.95	9.41E+10	5.01E+10
7/23/22	16.15	254	69.399		87.06	6.96	1305.84	9.29E+10	4.94E+10
12/23/22	16.10	255	69.672		86.76	6.94	1301.46	9.25E+10	4.92E+10
12/19/22	15.86	256	69.945		85.48	6.84	1282.22	9.12E+10	4.85E+10
12/21/22	15.84	257	70.219		85.37	6.83	1280.61	9.11E+10	4.84E+10
8/8/22	15.81	258	70.492		85.20	6.82	1277.94	9.09E+10	4.83E+10
12/2/22	15.74	259	70.765		84.83	6.79	1272.47	9.05E+10	4.81E+10
8/17/22	15.64	260	71.038		84.31	6.74	1264.58	8.99E+10	4.78E+10
9/15/22	15.37	261	71.311		82.84	6.63	1242.58	8.84E+10	4.70E+10
8/23/22	15.26	262	71.585		82.25	6.58	1233.73	8.77E+10	4.67E+10
8/18/22	15.16	263	71.858		81.70	6.54	1225.50	8.71E+10	4.64E+10
12/22/22	14.65	264	72.131		78.97	6.32	1184.55	8.42E+10	4.48E+10
9/3/22	14.38	265	72.404		77.49	6.20	1162.33	8.27E+10	4.40E+10
8/19/22	14.16	266	72.678		76.35	6.11	1145.19	8.14E+10	4.33E+10
12/3/22	14.16	267	72.951		76.30	6.10	1144.53	8.14E+10	4.33E+10
8/24/22	13.82	268	73.224		74.48	5.96	1117.26	7.95E+10	4.23E+10
10/29/22	13.81	269	73.497		74.46	5.96	1116.88	7.94E+10	4.22E+10
12/14/22	13.51	270	73.770		72.79	5.82	1091.90	7.76E+10	4.13E+10
8/25/22	13.35	271	74.044		71.95	5.76	1079.20	7.67E+10	4.08E+10
12/4/22	13.28	272	74.317		71.58	5.73	1073.64	7.63E+10	4.06E+10
12/9/22	13.19	273	74.590		71.11	5.69	1066.62	7.58E+10	4.03E+10
8/26/22	13.19	274	74.863		71.10	5.69	1066.49	7.58E+10	4.03E+10
8/20/22	13.05	275	75.137		70.34	5.63	1055.15	7.50E+10	3.99E+10
12/10/22	13.02	276	75.410		70.15	5.61	1052.29	7.48E+10	3.98E+10
9/19/22	12.84	277	75.683		69.19	5.54	1037.85	7.38E+10	3.93E+10
12/25/22	12.82	278	75.956		69.11	5.53	1036.60	7.37E+10	3.92E+10
12/5/22	12.82	279	76.230		69.08	5.53	1036.23	7.37E+10	3.92E+10
12/11/22	12.78	280	76.503		68.90	5.51	1033.50	7.35E+10	3.91E+10
9/16/22	12.74	281	76.776		68.66	5.49	1029.89	7.32E+10	3.90E+10
12/28/22	12.71	282	77.049		68.50	5.48	1027.44	7.31E+10	3.89E+10
12/12/22	12.64	283	77.322		68.15	5.45	1022.22	7.27E+10	3.87E+10
12/6/22	12.60	284	77.596		67.92	5.43	1018.80	7.24E+10	3.85E+10
8/28/22	12.59	285	77.869		67.84	5.43	1017.62	7.24E+10	3.85E+10
8/27/22	12.52	286	78.142		67.48	5.40	1012.22	7.20E+10	3.83E+10
12/7/22	12.39	287	78.415		66.77	5.34	1001.53	7.12E+10	3.79E+10
9/4/22	12.34	288	78.689		66.54	5.32	998.08	7.10E+10	3.78E+10
12/8/22	12.31	289	78.962		66.35	5.31	995.28	7.08E+10	3.76E+10
9/11/22	12.17	290	79.235		65.62	5.25	984.25	7.00E+10	3.72E+10
10/30/22	12.09	291	79.508		65.18	5.21	977.73	6.95E+10	3.70E+10
12/13/22	12.06	292	79.781		65.01	5.20	975.15	6.93E+10	3.69E+10
11/8/22	11.99	293	80.055		64.63	5.17	969.50	6.89E+10	3.67E+10
11/7/22	11.99	294	80.328		64.63	5.17	969.40	6.89E+10	3.67E+10
11/5/22	11.84	295	80.601		63.80	5.10	957.01	6.81E+10	3.62E+10

date	S2	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
11/25/22	11.68	296	80.874		62.98	5.04	944.71	6.72E+10	3.57E+10
11/17/22	11.58	297	81.148		62.42	4.99	936.32	6.66E+10	3.54E+10
11/18/22	11.58	298	81.421		62.42	4.99	936.32	6.66E+10	3.54E+10
11/26/22	11.56	299	81.694		62.30	4.98	934.45	6.65E+10	3.53E+10
10/31/22	11.54	300	81.967		62.21	4.98	933.21	6.64E+10	3.53E+10
11/21/22	11.53	301	82.240		62.15	4.97	932.28	6.63E+10	3.53E+10
11/16/22	11.49	302	82.514		61.94	4.96	929.17	6.61E+10	3.51E+10
11/22/22	11.42	303	82.787		61.57	4.93	923.58	6.57E+10	3.49E+10
9/5/22	11.34	304	83.060		61.13	4.89	916.90	6.52E+10	3.47E+10
11/15/22	11.30	305	83.333		60.89	4.87	913.33	6.49E+10	3.45E+10
11/19/22	11.29	306	83.607		60.84	4.87	912.64	6.49E+10	3.45E+10
11/23/22	11.27	307	83.880		60.76	4.86	911.46	6.48E+10	3.45E+10
9/20/22	11.21	308	84.153		60.42	4.83	906.37	6.45E+10	3.43E+10
11/24/22	11.16	309	84.426		60.16	4.81	902.45	6.42E+10	3.41E+10
11/14/22	11.14	310	84.699		60.06	4.80	900.90	6.41E+10	3.41E+10
11/6/22	11.10	311	84.973		59.85	4.79	897.82	6.38E+10	3.40E+10
9/17/22	11.06	312	85.246		59.63	4.77	894.50	6.36E+10	3.38E+10
12/27/22	11.05	313	85.519		59.55	4.76	893.29	6.35E+10	3.38E+10
11/1/22	10.82	314	85.792		58.35	4.67	875.18	6.22E+10	3.31E+10
11/13/22	10.80	315	86.066		58.20	4.66	873.03	6.21E+10	3.30E+10
11/9/22	10.79	316	86.339		58.17	4.65	872.54	6.20E+10	3.30E+10
9/21/22	10.78	317	86.612		58.12	4.65	871.79	6.20E+10	3.30E+10
9/6/22	10.60	318	86.885		57.11	4.57	856.69	6.09E+10	3.24E+10
11/2/22	10.44	319	87.158		56.26	4.50	843.95	6.00E+10	3.19E+10
11/20/22	10.39	320	87.432		56.00	4.48	840.07	5.97E+10	3.18E+10
10/25/22	10.34	321	87.705		55.76	4.46	836.34	5.95E+10	3.16E+10
11/10/22	10.23	322	87.978		55.13	4.41	826.90	5.88E+10	3.13E+10
9/7/22	10.18	323	88.251		54.89	4.39	823.42	5.86E+10	3.11E+10
12/26/22	10.18	324	88.525		54.85	4.39	822.73	5.85E+10	3.11E+10
11/3/22	10.10	325	88.798		54.46	4.36	816.83	5.81E+10	3.09E+10
11/12/22	9.94	326	89.071		53.60	4.29	803.97	5.72E+10	3.04E+10
11/4/22	9.91	327	89.344		53.41	4.27	801.17	5.70E+10	3.03E+10
9/18/22	9.89	328	89.617		53.33	4.27	799.96	5.69E+10	3.03E+10
11/11/22	9.85	329	89.891		53.10	4.25	796.45	5.66E+10	3.01E+10
9/25/22	9.49	330	90.164		51.13	4.09	767.00	5.45E+10	2.90E+10
9/8/22	9.46	331	90.437		50.97	4.08	764.58	5.44E+10	2.89E+10
9/22/22	9.42	332	90.710		50.75	4.06	761.25	5.41E+10	2.88E+10
9/24/22	9.38	333	90.984		50.54	4.04	758.05	5.39E+10	2.87E+10
9/26/22	9.27	334	91.257		49.97	4.00	749.60	5.33E+10	2.84E+10
10/21/22	9.23	335	91.530		49.75	3.98	746.21	5.31E+10	2.82E+10
10/22/22	9.08	336	91.803		48.93	3.91	733.94	5.22E+10	2.78E+10
9/9/22	8.88	337	92.077		47.85	3.83	717.79	5.10E+10	2.72E+10
9/29/22	8.66	338	92.350		46.70	3.74	700.51	4.98E+10	2.65E+10
9/27/22	8.64	339	92.623		46.56	3.72	698.40	4.97E+10	2.64E+10
10/20/22	8.57	340	92.896		46.21	3.70	693.18	4.93E+10	2.62E+10
9/30/22	8.55	341	93.169		46.11	3.69	691.66	4.92E+10	2.62E+10
9/23/22	8.54	342	93.443		46.05	3.68	690.70	4.91E+10	2.61E+10
10/19/22	8.51	343	93.716		45.86	3.67	687.96	4.89E+10	2.60E+10
10/23/22	8.50	344	93.989		45.81	3.67	687.22	4.89E+10	2.60E+10
10/17/22	8.41	345	94.262		45.33	3.63	680.01	4.84E+10	2.57E+10
9/28/22	8.32	346	94.536		44.82	3.59	672.30	4.78E+10	2.54E+10
9/10/22	8.32	347	94.809		44.82	3.59	672.27	4.78E+10	2.54E+10
10/16/22	8.26	348	95.082		44.51	3.56	667.58	4.75E+10	2.53E+10
10/18/22	8.21	349	95.355		44.27	3.54	664.10	4.72E+10	2.51E+10
10/1/22	8.04	350	95.628		43.33	3.47	649.94	4.62E+10	2.46E+10
10/24/22	7.78	351	95.902		41.91	3.35	628.72	4.47E+10	2.38E+10
10/15/22	7.70	352	96.175		41.50	3.32	622.50	4.43E+10	2.35E+10
10/2/22	7.54	353	96.448		40.62	3.25	609.30	4.33E+10	2.30E+10
10/13/22	7.46	354	96.721		40.19	3.22	602.84	4.29E+10	2.28E+10



date	S2	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
10/7/22	7.23	355	96.995		38.97	3.12	584.57	4.16E+10	2.21E+10
10/4/22	7.17	356	97.268		38.63	3.09	579.51	4.12E+10	2.19E+10
10/6/22	7.11	357	97.541		38.31	3.07	574.72	4.09E+10	2.17E+10
10/3/22	7.08	358	97.814		38.16	3.05	572.33	4.07E+10	2.16E+10
10/14/22	7.06	359	98.087		38.07	3.05	571.09	4.06E+10	2.16E+10
10/8/22	6.99	360	98.361		37.66	3.01	564.90	4.02E+10	2.14E+10
10/12/22	6.93	361	98.634		37.36	2.99	560.43	3.99E+10	2.12E+10
10/5/22	6.87	362	98.907		37.02	2.96	555.37	3.95E+10	2.10E+10
10/9/22	6.61	363	99.180		35.60	2.85	534.05	3.80E+10	2.02E+10
10/10/22	6.48	364	99.454		34.94	2.80	524.17	3.73E+10	1.98E+10
10/11/22	6.48	365	99.727		34.92	2.79	523.80	3.72E+10	1.98E+10
<b>TOTAL NUMBER OF</b>	<b>365</b>								
					1.00	0.08	15.00	2.35E+02	1.25E+02
					5.39	5.39	5.39	2.45E+07	2.45E+07

Date	Flow	NO3_N (mg/L)	TP (mg/L)	TSS (mg/L)	Ecoli (col/100 mL)
1/26/22	59.39	1.98	0.081	4	2
2/23/22	1092.96	3.32	0.909	44	156.5
3/23/22	1515.07	4.07	2.08	164	2419.6
4/27/22	164.86	3.72	0.085	6	79.4
5/24/22	95.73	2.89	0.196	9	34.5
6/27/22	61.02	1.81	0.892	3	178.2
7/25/22	25.67	0.617	0.426	4	517.2
8/22/22	16.63	0.222	0.284	4	172.5
9/28/22	8.32	0.425	0.01	5	218.7
10/24/22	7.78	0.211	0.045	6	75.4
11/16/22	11.49	0.4	0.012	3	48.3
12/21/22	15.84	0.406	0.034	1	47.1

Date	% Flow Exceed		NO3 Act Load	TP Act Load	TSS Act Load	Ecoli Act Load
1/26/22	48.36065574		633.8401549	25.9298245	1280.485161	2.91E+09
2/23/22	2.732240437		19558.29241	5354.9662	259206.2849	4.18E+12
3/23/22	1.366120219		33236.60126	16985.7815	1339263.54	8.97E+13
4/27/22	25.40983607		3305.659931	75.5325522	5331.709566	3.20E+11
5/24/22	37.97814208		1491.158772	101.130491	4643.747041	8.08E+10
6/27/22	47.26775956		595.3145849	293.381552	986.7092568	2.66E+11
7/25/22	59.28961749		85.37379438	58.9452778	553.4767869	3.25E+11
8/22/22	68.57923497		19.89469316	25.4508687	358.4629397	7.02E+10
9/28/22	94.53551913		19.04862518	0.44820295	224.1014727	4.45E+10
10/24/22	95.90163934		8.843945075	1.88614942	251.4865898	1.43E+10
11/16/22	82.5136612		24.7779181	0.74333754	185.8343857	1.36E+10
12/21/22	70.21857923		34.66182863	2.90271471	85.37396214	1.83E+10

Date	Ann Load Proxy Range			NO3 Ann Load	TP Ann Load	TSS Ann Load
1/26/22		28		17747.52434	726.0350866	35853.58452
2/23/22		28		547632.1874	149939.0537	7257775.977
3/23/22		35		1163281.044	594502.3517	46874223.89
4/27/22		27		89252.81814	2039.378909	143956.1583
5/24/22		34		50699.39825	3438.436698	157887.3994
6/27/22		28		16668.80838	8214.683466	27627.85919
7/25/22		28		2390.466243	1650.467779	15497.35003
8/22/22		37		736.1036468	941.6821427	13263.12877
9/28/22		26		495.2642546	11.65327658	5826.63829
10/24/22		23		203.4107367	43.38143674	5784.191565
11/16/22		35		867.2271334	26.016814	6504.2035
12/21/22		35		1213.164002	101.595015	2988.088675

Date	Ecoli Ann Load
1/26/22	8.14E+10
2/23/22	1.17E+14
3/23/22	3.14E+15
4/27/22	8.65E+12
5/24/22	2.75E+12
6/27/22	7.45E+12
7/25/22	9.10E+12
8/22/22	2.60E+12
9/28/22	1.16E+12
10/24/22	3.30E+11
11/16/22	4.75E+11
12/21/22	6.39E+11

date	S3 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
2/17/22	1501.57	1	0.273		8093.45	647.48	121401.82	8.63E+12	4.59E+12
3/7/22	1030.42	2	0.546		5553.99	444.32	83309.85	5.92E+12	3.15E+12
2/18/22	726.94	3	0.820		3918.22	313.46	58773.31	4.18E+12	2.22E+12
3/23/22	672.41	4	1.093		3624.31	289.94	54364.69	3.87E+12	2.06E+12
5/1/22	442.70	5	1.366		2386.14	190.89	35792.12	2.55E+12	1.35E+12
3/8/22	403.67	6	1.639		2175.81	174.06	32637.09	2.32E+12	1.23E+12
2/22/22	332.79	7	1.913		1793.75	143.50	26906.26	1.91E+12	1.02E+12
2/16/22	295.64	8	2.186		1593.49	127.48	23902.36	1.70E+12	9.04E+11
3/24/22	287.68	9	2.459		1550.59	124.05	23258.90	1.65E+12	8.80E+11
5/6/22	274.73	10	2.732		1480.81	118.46	22212.15	1.58E+12	8.40E+11
1/2/22	262.34	11	3.005		1414.03	113.12	21210.48	1.51E+12	8.02E+11
2/19/22	251.24	12	3.279		1354.18	108.33	20312.73	1.44E+12	7.68E+11
2/23/22	238.39	13	3.552		1284.92	102.79	19273.74	1.37E+12	7.29E+11
8/30/22	234.21	14	3.825		1262.40	100.99	18936.05	1.35E+12	7.16E+11
2/2/22	232.38	15	4.098		1252.55	100.20	18788.23	1.34E+12	7.11E+11
5/7/22	221.82	16	4.372		1195.62	95.65	17934.37	1.28E+12	6.78E+11
5/4/22	203.43	17	4.645		1096.49	87.72	16447.39	1.17E+12	6.22E+11
3/9/22	200.64	18	4.918		1081.48	86.52	16222.13	1.15E+12	6.14E+11
6/12/22	197.62	19	5.191		1065.20	85.22	15977.98	1.14E+12	6.04E+11
6/13/22	187.67	20	5.464		1011.52	80.92	15172.75	1.08E+12	5.74E+11
5/2/22	165.60	21	5.738		892.58	71.41	13388.65	9.52E+11	5.06E+11
4/14/22	163.37	22	6.011		880.59	70.45	13208.84	9.39E+11	5.00E+11
5/27/22	162.01	23	6.284		873.21	69.86	13098.16	9.31E+11	4.95E+11
5/3/22	158.80	24	6.557		855.91	68.47	12838.60	9.13E+11	4.86E+11
6/14/22	156.65	25	6.831		844.34	67.55	12665.06	9.01E+11	4.79E+11
3/25/22	156.34	26	7.104		842.65	67.41	12639.77	8.99E+11	4.78E+11
2/21/22	153.21	27	7.377		825.79	66.06	12386.84	8.81E+11	4.69E+11
2/20/22	150.20	28	7.650		809.60	64.77	12144.06	8.64E+11	4.59E+11
3/22/22	145.51	29	7.923		784.32	62.75	11764.80	8.37E+11	4.45E+11
2/3/22	137.31	30	8.197		740.09	59.21	11101.32	7.89E+11	4.20E+11
1/1/22	135.20	31	8.470		728.74	58.30	10931.16	7.77E+11	4.13E+11
5/5/22	128.42	32	8.743		692.21	55.38	10383.12	7.38E+11	3.93E+11
3/10/22	127.74	33	9.016		688.49	55.08	10327.40	7.34E+11	3.91E+11
12/31/22	126.58	34	9.290		682.26	54.58	10233.87	7.28E+11	3.87E+11
3/26/22	120.26	35	9.563		648.19	51.86	9722.89	6.91E+11	3.68E+11
4/25/22	120.08	36	9.836		647.22	51.78	9708.36	6.90E+11	3.67E+11
2/24/22	119.53	37	10.109		644.25	51.54	9663.79	6.87E+11	3.66E+11
2/12/22	116.92	38	10.383		630.22	50.42	9453.31	6.72E+11	3.58E+11
1/3/22	115.71	39	10.656		623.65	49.89	9354.77	6.65E+11	3.54E+11
5/26/22	113.63	40	10.929		612.47	49.00	9187.12	6.53E+11	3.48E+11
9/11/22	110.01	41	11.202		592.97	47.44	8894.48	6.33E+11	3.36E+11
5/8/22	102.54	42	11.475		552.69	44.22	8290.37	5.90E+11	3.14E+11
3/11/22	101.23	43	11.749		545.60	43.65	8184.06	5.82E+11	3.10E+11
4/7/22	99.82	44	12.022		538.04	43.04	8070.62	5.74E+11	3.05E+11
4/15/22	98.85	45	12.295		532.81	42.62	7992.12	5.68E+11	3.02E+11
1/9/22	98.79	46	12.568		532.48	42.60	7987.24	5.68E+11	3.02E+11
4/26/22	97.19	47	12.842		523.85	41.91	7857.77	5.59E+11	2.97E+11
3/19/22	96.04	48	13.115		517.64	41.41	7764.61	5.52E+11	2.94E+11
3/27/22	94.00	49	13.388		506.67	40.53	7600.09	5.40E+11	2.87E+11
2/25/22	93.62	50	13.661		504.62	40.37	7569.29	5.38E+11	2.86E+11
3/1/22	90.50	51	13.934		487.78	39.02	7316.74	5.20E+11	2.77E+11
3/20/22	87.76	52	14.208		473.03	37.84	7095.49	5.05E+11	2.68E+11
2/28/22	86.98	53	14.481		468.83	37.51	7032.51	5.00E+11	2.66E+11
2/27/22	83.56	54	14.754		450.41	36.03	6756.18	4.80E+11	2.56E+11
10/26/22	82.99	55	15.027		447.29	35.78	6709.37	4.77E+11	2.54E+11
3/2/22	81.36	56	15.301		438.55	35.08	6578.25	4.68E+11	2.49E+11
4/6/22	81.33	57	15.574		438.37	35.07	6575.62	4.68E+11	2.49E+11
5/28/22	81.28	58	15.847		438.07	35.05	6571.12	4.67E+11	2.49E+11
8/9/22	79.38	59	16.120		427.85	34.23	6417.71	4.56E+11	2.43E+11
3/12/22	78.36	60	16.393		422.35	33.79	6335.22	4.51E+11	2.40E+11

date	S3 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
3/28/22	75.72	61	16.667		408.11	32.65	6121.61	4.35E+11	2.32E+11
4/8/22	75.62	62	16.940		407.58	32.61	6113.73	4.35E+11	2.31E+11
2/26/22	75.12	63	17.213		404.92	32.39	6073.78	4.32E+11	2.30E+11
1/4/22	74.99	64	17.486		404.18	32.33	6062.77	4.31E+11	2.29E+11
12/15/22	72.77	65	17.760		392.21	31.38	5883.22	4.18E+11	2.23E+11
3/31/22	72.08	66	18.033		388.53	31.08	5828.00	4.14E+11	2.20E+11
3/21/22	71.92	67	18.306		387.64	31.01	5814.60	4.13E+11	2.20E+11
4/16/22	71.78	68	18.579		386.88	30.95	5803.21	4.13E+11	2.20E+11
6/15/22	69.65	69	18.852		375.40	30.03	5631.04	4.00E+11	2.13E+11
5/9/22	68.73	70	19.126		370.44	29.63	5556.54	3.95E+11	2.10E+11
4/9/22	67.25	71	19.399		362.49	29.00	5437.34	3.87E+11	2.06E+11
11/27/22	66.72	72	19.672		359.62	28.77	5394.30	3.84E+11	2.04E+11
3/3/22	65.53	73	19.945		353.22	28.26	5298.36	3.77E+11	2.00E+11
3/29/22	65.53	74	20.219		353.22	28.26	5298.24	3.77E+11	2.00E+11
4/13/22	65.11	75	20.492		350.96	28.08	5264.40	3.74E+11	1.99E+11
2/13/22	62.77	76	20.765		338.32	27.07	5074.86	3.61E+11	1.92E+11
4/27/22	62.70	77	21.038		337.96	27.04	5069.35	3.60E+11	1.92E+11
3/13/22	62.67	78	21.311		337.82	27.03	5067.23	3.60E+11	1.92E+11
3/30/22	61.59	79	21.585		331.96	26.56	4979.33	3.54E+11	1.88E+11
7/25/22	60.31	80	21.858		325.07	26.01	4876.03	3.47E+11	1.84E+11
1/5/22	59.74	81	22.131		322.00	25.76	4829.95	3.43E+11	1.83E+11
2/11/22	58.45	82	22.404		315.05	25.20	4725.78	3.36E+11	1.79E+11
3/6/22	57.75	83	22.678		311.26	24.90	4668.93	3.32E+11	1.77E+11
3/14/22	57.67	84	22.951		310.86	24.87	4662.92	3.32E+11	1.76E+11
1/10/22	57.67	85	23.224		310.84	24.87	4662.55	3.32E+11	1.76E+11
4/10/22	57.07	86	23.497		307.61	24.61	4614.22	3.28E+11	1.75E+11
4/1/22	56.87	87	23.770		306.50	24.52	4597.57	3.27E+11	1.74E+11
2/4/22	55.74	88	24.044		300.41	24.03	4506.20	3.20E+11	1.70E+11
4/17/22	55.64	89	24.317		299.90	23.99	4498.52	3.20E+11	1.70E+11
4/18/22	54.52	90	24.590		293.86	23.51	4407.87	3.13E+11	1.67E+11
3/4/22	53.54	91	24.863		288.59	23.09	4328.87	3.08E+11	1.64E+11
3/15/22	52.87	92	25.137		284.95	22.80	4274.27	3.04E+11	1.62E+11
4/11/22	52.63	93	25.410		283.67	22.69	4255.12	3.03E+11	1.61E+11
5/10/22	51.78	94	25.683		279.12	22.33	4186.75	2.98E+11	1.58E+11
5/29/22	51.15	95	25.956		275.69	22.06	4135.42	2.94E+11	1.56E+11
4/19/22	51.11	96	26.230		275.49	22.04	4132.41	2.94E+11	1.56E+11
4/2/22	50.39	97	26.503		271.59	21.73	4073.81	2.90E+11	1.54E+11
3/18/22	50.22	98	26.776		270.66	21.65	4059.92	2.89E+11	1.54E+11
4/28/22	50.15	99	27.049		270.32	21.63	4054.78	2.88E+11	1.53E+11
3/5/22	49.40	100	27.322		266.25	21.30	3993.68	2.84E+11	1.51E+11
3/16/22	49.37	101	27.596		266.11	21.29	3991.68	2.84E+11	1.51E+11
4/3/22	48.11	102	27.869		259.32	20.75	3889.76	2.77E+11	1.47E+11
4/5/22	48.03	103	28.142		258.90	20.71	3883.50	2.76E+11	1.47E+11
4/12/22	47.31	104	28.415		255.00	20.40	3825.02	2.72E+11	1.45E+11
3/17/22	45.98	105	28.689		247.83	19.83	3717.47	2.64E+11	1.41E+11
9/12/22	45.57	106	28.962		245.63	19.65	3684.41	2.62E+11	1.39E+11
4/4/22	45.17	107	29.235		243.45	19.48	3651.73	2.60E+11	1.38E+11
6/16/22	44.53	108	29.508		240.00	19.20	3600.02	2.56E+11	1.36E+11
4/29/22	44.25	109	29.781		238.51	19.08	3577.61	2.54E+11	1.35E+11
4/20/22	44.10	110	30.055		237.71	19.02	3565.71	2.54E+11	1.35E+11
4/21/22	43.46	111	30.328		234.25	18.74	3513.75	2.50E+11	1.33E+11
5/20/22	42.92	112	30.601		231.32	18.51	3469.80	2.47E+11	1.31E+11
2/14/22	42.56	113	30.874		229.42	18.35	3441.30	2.45E+11	1.30E+11
5/11/22	42.48	114	31.148		228.98	18.32	3434.75	2.44E+11	1.30E+11
4/30/22	42.10	115	31.421		226.93	18.15	3403.94	2.42E+11	1.29E+11
1/6/22	42.08	116	31.694		226.82	18.15	3402.32	2.42E+11	1.29E+11
5/16/22	40.44	117	31.967		217.98	17.44	3269.72	2.33E+11	1.24E+11
11/28/22	39.94	118	32.240		215.28	17.22	3229.15	2.30E+11	1.22E+11
4/22/22	39.81	119	32.514		214.57	17.17	3218.51	2.29E+11	1.22E+11
4/23/22	39.06	120	32.787		210.53	16.84	3157.91	2.25E+11	1.19E+11

date	S3 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
12/30/22	37.44	121	33.060		201.79	16.14	3026.81	2.15E+11	1.14E+11
5/30/22	37.20	122	33.333		200.52	16.04	3007.78	2.14E+11	1.14E+11
4/24/22	36.79	123	33.607		198.27	15.86	2974.10	2.11E+11	1.12E+11
5/12/22	36.65	124	33.880		197.55	15.80	2963.21	2.11E+11	1.12E+11
1/11/22	35.98	125	34.153		193.93	15.51	2908.99	2.07E+11	1.10E+11
8/31/22	34.49	126	34.426		185.89	14.87	2788.41	1.98E+11	1.05E+11
12/27/22	33.28	127	34.699		179.38	14.35	2690.75	1.91E+11	1.02E+11
5/14/22	32.61	128	34.973		175.79	14.06	2636.91	1.88E+11	9.97E+10
6/17/22	32.54	129	35.246		175.38	14.03	2630.65	1.87E+11	9.95E+10
5/13/22	32.37	130	35.519		174.49	13.96	2617.38	1.86E+11	9.90E+10
5/19/22	31.98	131	35.792		172.37	13.79	2585.57	1.84E+11	9.78E+10
5/15/22	31.86	132	36.066		171.75	13.74	2576.18	1.83E+11	9.74E+10
12/16/22	31.66	133	36.339		170.63	13.65	2559.41	1.82E+11	9.68E+10
2/10/22	31.55	134	36.612		170.07	13.61	2551.02	1.81E+11	9.65E+10
8/10/22	29.99	135	36.885		161.64	12.93	2424.56	1.72E+11	9.17E+10
1/7/22	29.83	136	37.158		160.79	12.86	2411.91	1.72E+11	9.12E+10
5/18/22	29.08	137	37.432		156.75	12.54	2351.18	1.67E+11	8.89E+10
1/12/22	28.82	138	37.705		155.34	12.43	2330.15	1.66E+11	8.81E+10
5/31/22	28.66	139	37.978		154.48	12.36	2317.25	1.65E+11	8.77E+10
12/26/22	28.65	140	38.251		154.42	12.35	2316.25	1.65E+11	8.76E+10
5/17/22	28.56	141	38.525		153.94	12.32	2309.11	1.64E+11	8.73E+10
2/15/22	28.14	142	38.798		151.66	12.13	2274.87	1.62E+11	8.60E+10
5/21/22	27.20	143	39.071		146.61	11.73	2199.18	1.56E+11	8.32E+10
1/8/22	27.19	144	39.344		146.55	11.72	2198.18	1.56E+11	8.31E+10
2/9/22	26.16	145	39.617		141.00	11.28	2115.04	1.50E+11	8.00E+10
5/25/22	26.08	146	39.891		140.57	11.25	2108.53	1.50E+11	7.98E+10
6/1/22	25.14	147	40.164		135.53	10.84	2032.90	1.45E+11	7.69E+10
1/13/22	25.11	148	40.437		135.34	10.83	2030.15	1.44E+11	7.68E+10
2/8/22	24.37	149	40.710		131.38	10.51	1970.70	1.40E+11	7.45E+10
12/29/22	23.86	150	40.984		128.58	10.29	1928.73	1.37E+11	7.30E+10
12/28/22	23.46	151	41.257		126.43	10.11	1896.42	1.35E+11	7.17E+10
5/22/22	22.15	152	41.530		119.39	9.55	1790.87	1.27E+11	6.77E+10
2/5/22	22.08	153	41.803		119.00	9.52	1784.99	1.27E+11	6.75E+10
8/1/22	21.98	154	42.077		118.46	9.48	1776.86	1.26E+11	6.72E+10
6/18/22	21.96	155	42.350		118.36	9.47	1775.47	1.26E+11	6.72E+10
6/2/22	21.67	156	42.623		116.81	9.34	1752.18	1.25E+11	6.63E+10
8/4/22	21.52	157	42.896		116.02	9.28	1740.27	1.24E+11	6.58E+10
1/14/22	20.77	158	43.169		111.94	8.95	1679.06	1.19E+11	6.35E+10
7/24/22	20.29	159	43.443		109.37	8.75	1640.54	1.17E+11	6.21E+10
6/7/22	20.22	160	43.716		108.97	8.72	1634.61	1.16E+11	6.18E+10
10/25/22	19.17	161	43.989		103.34	8.27	1550.06	1.10E+11	5.86E+10
10/27/22	19.08	162	44.262		102.86	8.23	1542.89	1.10E+11	5.84E+10
12/25/22	18.93	163	44.536		102.04	8.16	1530.56	1.09E+11	5.79E+10
11/29/22	18.36	164	44.809		98.96	7.92	1484.47	1.06E+11	5.62E+10
5/23/22	18.05	165	45.082		97.31	7.79	1459.69	1.04E+11	5.52E+10
7/26/22	17.91	166	45.355		96.51	7.72	1447.65	1.03E+11	5.48E+10
9/13/22	17.80	167	45.628		95.92	7.67	1438.81	1.02E+11	5.44E+10
2/6/22	17.64	168	45.902		95.09	7.61	1426.39	1.01E+11	5.40E+10
12/17/22	17.64	169	46.175		95.07	7.61	1426.01	1.01E+11	5.39E+10
2/7/22	17.62	170	46.448		94.96	7.60	1424.38	1.01E+11	5.39E+10
12/19/22	17.61	171	46.721		94.92	7.59	1423.77	1.01E+11	5.39E+10
6/3/22	17.50	172	46.995		94.33	7.55	1414.99	1.01E+11	5.35E+10
1/15/22	17.27	173	47.268		93.07	7.45	1396.09	9.93E+10	5.28E+10
6/26/22	16.69	174	47.541		89.98	7.20	1349.71	9.60E+10	5.11E+10
6/19/22	16.18	175	47.814		87.20	6.98	1308.06	9.30E+10	4.95E+10
11/30/22	15.88	176	48.087		85.58	6.85	1283.77	9.13E+10	4.86E+10
12/24/22	15.68	177	48.361		84.50	6.76	1267.55	9.01E+10	4.79E+10
1/16/22	15.49	178	48.634		83.46	6.68	1251.96	8.90E+10	4.74E+10
6/8/22	15.40	179	48.907		83.02	6.64	1245.25	8.86E+10	4.71E+10
5/24/22	15.39	180	49.180		82.93	6.63	1243.94	8.85E+10	4.71E+10



date	S3 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/6/22	15.09	181	49.454		81.32	6.51	1219.85	8.67E+10	4.61E+10
8/11/22	14.92	182	49.727		80.44	6.44	1206.59	8.58E+10	4.56E+10
6/11/22	14.85	183	50.000		80.03	6.40	1200.42	8.54E+10	4.54E+10
7/27/22	14.11	184	50.273		76.07	6.09	1141.06	8.11E+10	4.32E+10
6/4/22	14.07	185	50.546		75.82	6.07	1137.31	8.09E+10	4.30E+10
6/9/22	13.96	186	50.820		75.26	6.02	1128.96	8.03E+10	4.27E+10
8/2/22	13.57	187	51.093		73.15	5.85	1097.32	7.80E+10	4.15E+10
6/10/22	13.18	188	51.366		71.03	5.68	1065.44	7.58E+10	4.03E+10
8/5/22	13.13	189	51.639		70.78	5.66	1061.71	7.55E+10	4.02E+10
12/23/22	13.01	190	51.913		70.11	5.61	1051.61	7.48E+10	3.98E+10
7/28/22	12.96	191	52.186		69.83	5.59	1047.45	7.45E+10	3.96E+10
9/1/22	12.85	192	52.459		69.25	5.54	1038.74	7.39E+10	3.93E+10
6/20/22	12.69	193	52.732		68.38	5.47	1025.65	7.29E+10	3.88E+10
6/5/22	12.64	194	53.005		68.15	5.45	1022.25	7.27E+10	3.87E+10
12/14/22	12.51	195	53.279		67.41	5.39	1011.20	7.19E+10	3.82E+10
12/18/22	12.48	196	53.552		67.28	5.38	1009.25	7.18E+10	3.82E+10
8/29/22	12.42	197	53.825		66.95	5.36	1004.19	7.14E+10	3.80E+10
1/17/22	11.79	198	54.098		63.55	5.08	953.19	6.78E+10	3.61E+10
7/9/22	11.70	199	54.372		63.08	5.05	946.22	6.73E+10	3.58E+10
6/21/22	11.17	200	54.645		60.20	4.82	903.01	6.42E+10	3.42E+10
6/27/22	10.83	201	54.918		58.38	4.67	875.75	6.23E+10	3.31E+10
12/21/22	10.79	202	55.191		58.14	4.65	872.11	6.20E+10	3.30E+10
8/12/22	10.72	203	55.464		57.79	4.62	866.88	6.16E+10	3.28E+10
6/22/22	10.61	204	55.738		57.17	4.57	857.55	6.10E+10	3.24E+10
12/1/22	10.09	205	56.011		54.37	4.35	815.49	5.80E+10	3.08E+10
8/14/22	10.08	206	56.284		54.33	4.35	814.98	5.80E+10	3.08E+10
2/1/22	9.93	207	56.557		53.50	4.28	802.54	5.71E+10	3.04E+10
9/14/22	9.91	208	56.831		53.43	4.27	801.48	5.70E+10	3.03E+10
7/29/22	9.90	209	57.104		53.35	4.27	800.22	5.69E+10	3.03E+10
10/28/22	9.69	210	57.377		52.24	4.18	783.66	5.57E+10	2.96E+10
6/23/22	8.96	211	57.650		48.30	3.86	724.50	5.15E+10	2.74E+10
12/20/22	8.95	212	57.923		48.25	3.86	723.75	5.15E+10	2.74E+10
12/22/22	8.91	213	58.197		48.04	3.84	720.63	5.12E+10	2.73E+10
8/21/22	8.85	214	58.470		47.69	3.82	715.38	5.09E+10	2.71E+10
1/18/22	8.72	215	58.743		46.99	3.76	704.78	5.01E+10	2.67E+10
12/10/22	8.64	216	59.016		46.58	3.73	698.67	4.97E+10	2.64E+10
12/2/22	8.36	217	59.290		45.05	3.60	675.77	4.81E+10	2.56E+10
8/15/22	8.29	218	59.563		44.70	3.58	670.52	4.77E+10	2.54E+10
8/3/22	8.22	219	59.836		44.32	3.55	664.85	4.73E+10	2.51E+10
8/13/22	8.06	220	60.109		43.45	3.48	651.70	4.63E+10	2.47E+10
8/20/22	8.05	221	60.383		43.40	3.47	651.01	4.63E+10	2.46E+10
7/30/22	7.76	222	60.656		41.82	3.35	627.27	4.46E+10	2.37E+10
12/3/22	7.72	223	60.929		41.63	3.33	624.49	4.44E+10	2.36E+10
8/16/22	7.57	224	61.202		40.83	3.27	612.42	4.36E+10	2.32E+10
7/8/22	7.55	225	61.475		40.69	3.25	610.30	4.34E+10	2.31E+10
9/2/22	7.47	226	61.749		40.28	3.22	604.27	4.30E+10	2.29E+10
7/10/22	7.38	227	62.022		39.78	3.18	596.72	4.24E+10	2.26E+10
8/23/22	7.31	228	62.295		39.38	3.15	590.73	4.20E+10	2.23E+10
9/19/22	7.29	229	62.568		39.30	3.14	589.55	4.19E+10	2.23E+10
1/31/22	7.19	230	62.842		38.73	3.10	580.97	4.13E+10	2.20E+10
12/7/22	7.14	231	63.115		38.47	3.08	577.09	4.10E+10	2.18E+10
10/29/22	7.05	232	63.388		38.00	3.04	570.03	4.05E+10	2.16E+10
10/18/22	7.05	233	63.661		37.97	3.04	569.59	4.05E+10	2.15E+10
12/6/22	6.98	234	63.934		37.63	3.01	564.44	4.01E+10	2.14E+10
12/9/22	6.94	235	64.208		37.40	2.99	560.99	3.99E+10	2.12E+10
12/11/22	6.93	236	64.481		37.35	2.99	560.29	3.98E+10	2.12E+10
10/19/22	6.93	237	64.754		37.34	2.99	560.04	3.98E+10	2.12E+10
12/5/22	6.92	238	65.027		37.28	2.98	559.14	3.98E+10	2.11E+10
9/15/22	6.77	239	65.301		36.50	2.92	547.53	3.89E+10	2.07E+10
12/4/22	6.74	240	65.574		36.32	2.91	544.80	3.87E+10	2.06E+10

date	S3 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/24/22	6.70	241	65.847		36.13	2.89	541.92	3.85E+10	2.05E+10
12/8/22	6.65	242	66.120		35.84	2.87	537.55	3.82E+10	2.03E+10
6/28/22	6.63	243	66.393		35.76	2.86	536.38	3.81E+10	2.03E+10
8/22/22	6.58	244	66.667		35.49	2.84	532.32	3.79E+10	2.01E+10
11/13/22	6.49	245	66.940		35.00	2.80	524.95	3.73E+10	1.99E+10
1/19/22	6.48	246	67.213		34.91	2.79	523.68	3.72E+10	1.98E+10
12/12/22	6.46	247	67.486		34.80	2.78	521.96	3.71E+10	1.97E+10
10/31/22	6.24	248	67.760		33.64	2.69	504.67	3.59E+10	1.91E+10
9/24/22	6.22	249	68.033		33.51	2.68	502.64	3.57E+10	1.90E+10
12/13/22	6.17	250	68.306		33.26	2.66	498.85	3.55E+10	1.89E+10
1/30/22	6.16	251	68.579		33.20	2.66	498.03	3.54E+10	1.88E+10
11/4/22	6.14	252	68.852		33.12	2.65	496.76	3.53E+10	1.88E+10
11/6/22	6.00	253	69.126		32.37	2.59	485.50	3.45E+10	1.84E+10
9/3/22	6.00	254	69.399		32.36	2.59	485.35	3.45E+10	1.84E+10
8/19/22	5.99	255	69.672		32.31	2.58	484.59	3.45E+10	1.83E+10
6/25/22	5.99	256	69.945		32.29	2.58	484.42	3.44E+10	1.83E+10
11/5/22	5.99	257	70.219		32.26	2.58	483.91	3.44E+10	1.83E+10
10/13/22	5.97	258	70.492		32.15	2.57	482.32	3.43E+10	1.82E+10
10/30/22	5.94	259	70.765		32.00	2.56	480.07	3.41E+10	1.82E+10
10/15/22	5.88	260	71.038		31.71	2.54	475.68	3.38E+10	1.80E+10
1/29/22	5.87	261	71.311		31.65	2.53	474.79	3.38E+10	1.80E+10
1/20/22	5.81	262	71.585		31.31	2.50	469.59	3.34E+10	1.78E+10
10/14/22	5.80	263	71.858		31.25	2.50	468.73	3.33E+10	1.77E+10
11/16/22	5.79	264	72.131		31.19	2.50	467.86	3.33E+10	1.77E+10
7/1/22	5.75	265	72.404		30.99	2.48	464.84	3.31E+10	1.76E+10
1/28/22	5.73	266	72.678		30.88	2.47	463.17	3.29E+10	1.75E+10
6/29/22	5.67	267	72.951		30.58	2.45	458.67	3.26E+10	1.73E+10
11/1/22	5.65	268	73.224		30.46	2.44	456.85	3.25E+10	1.73E+10
1/24/22	5.60	269	73.497		30.21	2.42	453.16	3.22E+10	1.71E+10
1/25/22	5.60	270	73.770		30.21	2.42	453.16	3.22E+10	1.71E+10
1/26/22	5.60	271	74.044		30.21	2.42	453.16	3.22E+10	1.71E+10
1/27/22	5.60	272	74.317		30.21	2.42	453.16	3.22E+10	1.71E+10
1/21/22	5.47	273	74.590		29.49	2.36	442.34	3.15E+10	1.67E+10
1/23/22	5.42	274	74.863		29.20	2.34	437.93	3.11E+10	1.66E+10
11/19/22	5.41	275	75.137		29.16	2.33	437.47	3.11E+10	1.65E+10
9/16/22	5.39	276	75.410		29.06	2.32	435.90	3.10E+10	1.65E+10
11/14/22	5.39	277	75.683		29.04	2.32	435.54	3.10E+10	1.65E+10
10/16/22	5.38	278	75.956		29.02	2.32	435.29	3.10E+10	1.65E+10
11/15/22	5.38	279	76.230		28.99	2.32	434.88	3.09E+10	1.64E+10
1/22/22	5.35	280	76.503		28.82	2.31	432.32	3.07E+10	1.64E+10
11/17/22	5.32	281	76.776		28.65	2.29	429.74	3.06E+10	1.63E+10
7/11/22	5.28	282	77.049		28.47	2.28	426.98	3.04E+10	1.62E+10
11/18/22	5.25	283	77.322		28.28	2.26	424.23	3.02E+10	1.60E+10
11/2/22	5.24	284	77.596		28.22	2.26	423.37	3.01E+10	1.60E+10
9/20/22	5.24	285	77.869		28.22	2.26	423.27	3.01E+10	1.60E+10
11/12/22	5.20	286	78.142		28.05	2.24	420.72	2.99E+10	1.59E+10
8/17/22	5.11	287	78.415		27.52	2.20	412.84	2.94E+10	1.56E+10
11/10/22	5.05	288	78.689		27.23	2.18	408.52	2.91E+10	1.55E+10
10/17/22	5.04	289	78.962		27.16	2.17	407.36	2.90E+10	1.54E+10
11/3/22	5.03	290	79.235		27.12	2.17	406.79	2.89E+10	1.54E+10
6/30/22	4.96	291	79.508		26.71	2.14	400.71	2.85E+10	1.52E+10
8/24/22	4.89	292	79.781		26.38	2.11	395.74	2.81E+10	1.50E+10
11/20/22	4.82	293	80.055		25.99	2.08	389.86	2.77E+10	1.47E+10
11/23/22	4.82	294	80.328		25.99	2.08	389.83	2.77E+10	1.47E+10
11/7/22	4.81	295	80.601		25.93	2.07	388.94	2.77E+10	1.47E+10
11/24/22	4.78	296	80.874		25.77	2.06	386.61	2.75E+10	1.46E+10
11/25/22	4.70	297	81.148		25.34	2.03	380.12	2.70E+10	1.44E+10
11/11/22	4.68	298	81.421		25.22	2.02	378.27	2.69E+10	1.43E+10
9/25/22	4.66	299	81.694		25.11	2.01	376.68	2.68E+10	1.42E+10
11/22/22	4.65	300	81.967		25.05	2.00	375.68	2.67E+10	1.42E+10

date	S3 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
11/8/22	4.63	301	82.240		24.95	2.00	374.30	2.66E+10	1.42E+10
10/12/22	4.61	302	82.514		24.85	1.99	372.72	2.65E+10	1.41E+10
8/6/22	4.59	303	82.787		24.76	1.98	371.38	2.64E+10	1.40E+10
11/21/22	4.53	304	83.060		24.43	1.95	366.46	2.61E+10	1.39E+10
9/22/22	4.52	305	83.333		24.36	1.95	365.46	2.60E+10	1.38E+10
8/27/22	4.31	306	83.607		23.21	1.86	348.17	2.48E+10	1.32E+10
11/26/22	4.25	307	83.880		22.92	1.83	343.74	2.44E+10	1.30E+10
9/23/22	4.24	308	84.153		22.83	1.83	342.45	2.44E+10	1.30E+10
9/17/22	4.17	309	84.426		22.48	1.80	337.24	2.40E+10	1.28E+10
8/8/22	4.17	310	84.699		22.47	1.80	337.04	2.40E+10	1.27E+10
8/7/22	4.12	311	84.973		22.22	1.78	333.28	2.37E+10	1.26E+10
10/20/22	4.05	312	85.246		21.81	1.74	327.10	2.33E+10	1.24E+10
9/4/22	4.04	313	85.519		21.75	1.74	326.32	2.32E+10	1.23E+10
7/18/22	4.01	314	85.792		21.64	1.73	324.54	2.31E+10	1.23E+10
9/21/22	3.97	315	86.066		21.37	1.71	320.61	2.28E+10	1.21E+10
7/2/22	3.88	316	86.339		20.91	1.67	313.65	2.23E+10	1.19E+10
9/26/22	3.81	317	86.612		20.56	1.64	308.39	2.19E+10	1.17E+10
7/19/22	3.81	318	86.885		20.52	1.64	307.78	2.19E+10	1.16E+10
9/18/22	3.77	319	87.158		20.30	1.62	304.48	2.17E+10	1.15E+10
9/5/22	3.73	320	87.432		20.11	1.61	301.64	2.15E+10	1.14E+10
9/27/22	3.54	321	87.705		19.08	1.53	286.18	2.04E+10	1.08E+10
10/24/22	3.43	322	87.978		18.50	1.48	277.45	1.97E+10	1.05E+10
7/12/22	3.25	323	88.251		17.52	1.40	262.86	1.87E+10	9.94E+09
7/3/22	3.15	324	88.525		16.96	1.36	254.34	1.81E+10	9.62E+09
7/31/22	3.06	325	88.798		16.51	1.32	247.69	1.76E+10	9.37E+09
9/6/22	3.00	326	89.071		16.20	1.30	242.93	1.73E+10	9.19E+09
10/4/22	2.97	327	89.344		16.03	1.28	240.40	1.71E+10	9.09E+09
8/18/22	2.90	328	89.617		15.64	1.25	234.57	1.67E+10	8.87E+09
9/29/22	2.58	329	89.891		13.92	1.11	208.82	1.49E+10	7.90E+09
10/10/22	2.53	330	90.164		13.61	1.09	204.20	1.45E+10	7.72E+09
7/4/22	2.41	331	90.437		13.02	1.04	195.24	1.39E+10	7.39E+09
10/9/22	2.40	332	90.710		12.91	1.03	193.70	1.38E+10	7.33E+09
8/25/22	2.36	333	90.984		12.73	1.02	190.92	1.36E+10	7.22E+09
9/7/22	2.28	334	91.257		12.28	0.98	184.21	1.31E+10	6.97E+09
10/11/22	1.98	335	91.530		10.70	0.86	160.46	1.14E+10	6.07E+09
11/9/22	1.97	336	91.803		10.63	0.85	159.45	1.13E+10	6.03E+09
10/5/22	1.73	337	92.077		9.33	0.75	139.91	9.95E+09	5.29E+09
9/28/22	1.59	338	92.350		8.58	0.69	128.73	9.15E+09	4.87E+09
10/23/22	1.53	339	92.623		8.26	0.66	123.89	8.81E+09	4.69E+09
10/1/22	1.41	340	92.896		7.59	0.61	113.84	8.10E+09	4.31E+09
10/8/22	1.31	341	93.169		7.08	0.57	106.15	7.55E+09	4.02E+09
7/17/22	1.24	342	93.443		6.71	0.54	100.63	7.16E+09	3.81E+09
10/21/22	1.24	343	93.716		6.71	0.54	100.62	7.16E+09	3.81E+09
7/6/22	1.20	344	93.989		6.47	0.52	97.01	6.90E+09	3.67E+09
7/7/22	1.20	345	94.262		6.45	0.52	96.76	6.88E+09	3.66E+09
8/28/22	0.96	346	94.536		5.17	0.41	77.55	5.52E+09	2.93E+09
9/8/22	0.92	347	94.809		4.93	0.39	74.02	5.26E+09	2.80E+09
10/3/22	0.84	348	95.082		4.52	0.36	67.75	4.82E+09	2.56E+09
9/30/22	0.82	349	95.355		4.40	0.35	66.07	4.70E+09	2.50E+09
9/10/22	0.78	350	95.628		4.19	0.34	62.82	4.47E+09	2.38E+09
7/22/22	0.72	351	95.902		3.86	0.31	57.91	4.12E+09	2.19E+09
7/21/22	0.70	352	96.175		3.78	0.30	56.66	4.03E+09	2.14E+09
7/14/22	0.69	353	96.448		3.72	0.30	55.86	3.97E+09	2.11E+09
10/7/22	0.69	354	96.721		3.70	0.30	55.51	3.95E+09	2.10E+09
7/23/22	0.68	355	96.995		3.67	0.29	55.00	3.91E+09	2.08E+09
8/26/22	0.68	356	97.268		3.66	0.29	54.83	3.90E+09	2.07E+09
7/16/22	0.64	357	97.541		3.43	0.27	51.49	3.66E+09	1.95E+09
10/22/22	0.61	358	97.814		3.28	0.26	49.21	3.50E+09	1.86E+09
7/13/22	0.61	359	98.087		3.28	0.26	49.14	3.49E+09	1.86E+09
10/6/22	0.58	360	98.361		3.11	0.25	46.62	3.31E+09	1.76E+09

date	S3 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
7/5/22	0.53	361	98.634		2.87	0.23	43.02	3.06E+09	1.63E+09
7/20/22	0.47	362	98.907		2.55	0.20	38.24	2.72E+09	1.45E+09
10/2/22	0.41	363	99.180		2.22	0.18	33.31	2.37E+09	1.26E+09
7/15/22	0.40	364	99.454		2.15	0.17	32.27	2.29E+09	1.22E+09
9/9/22	0.20	365	99.727		1.08	0.09	16.21	1.15E+09	6.13E+08
<b>TOTAL NUMBER</b>	365								
					1.00	0.08	15.00	235.00	125.00
					5.39	5.39	5.39	24465758.40	24465758.40

Date	Flow	NO3_N (mg/L)	TP (mg/L)	TSS (mg/L)	Ecoli (col/100 mL)
1/26/22	5.60	5.14	0.037	6	24.4
2/23/22	238.39	2.95	0.504	37	304.6
3/23/22	672.41	3.66	1.7	161	2419.6
4/27/22	62.70	3.99	0.29	2	290.6
5/24/22	15.39	2.84	0.031	5	100.5
6/27/22	10.83	1.9	0.622	1	277.8
7/25/22	14.11	1.28	0.813	17	2419.6
8/22/22	6.58	3.71	1.22	3	235.9
9/28/22	1.59	1.87	0.287	2	248.9
10/24/22	3.43	2.03	0.131	2	32.7
11/16/22	5.79	4.5	0.002	2	70.7
12/21/22	10.79	2.55	0.007	6	67.7

Date	% Flow Exceed		NO3 Act Load	TP Act Load	TSS Act Load	Ecoli Act Load
1/26/22	74.04371585		155.2821384	1.11778971	181.2631966	3.35E+09
2/23/22	3.551912568		3790.50199	647.597628	47541.88936	1.78E+12
3/23/22	1.092896175		13264.98316	6161.33098	583514.2867	3.98E+13
4/27/22	21.03825137		1348.448282	98.0075192	675.9139257	4.46E+11
5/24/22	49.18032787		235.5199177	2.570816	414.6477425	3.78E+10
6/27/22	54.91803279		110.9286322	36.3145312	58.38349063	7.36E+10
7/25/22	21.8579235		97.37052257	61.845496	1293.202253	8.35E+11
8/22/22	66.66666667		131.6593415	43.2949856	106.4630794	3.80E+10
9/28/22	92.34972678		16.04806839	2.46299231	17.16370951	9.70E+09
10/24/22	87.97814208		37.54844846	2.42307722	36.99354528	2.75E+09
11/16/22	72.13114754		140.3572738	0.06238101	62.38101057	1.00E+10
12/21/22	55.19125683		148.25849	0.40698409	348.843506	1.79E+10

Date	Ann Load Proxy Range		NO3 Ann Load	TP Ann Load
1/26/22		28	4347.899875	31.29811194
2/23/22		28	106134.0557	18132.73359
3/23/22		35	464274.4107	215646.5842
4/27/22		27	36408.10361	2646.203019
5/24/22		34	8007.677203	87.40774412
6/27/22		28	3106.001702	1016.806873
7/25/22		28	2726.374632	1731.673887
8/22/22		37	4871.395636	1601.914468
9/28/22		26	417.2497782	64.03780019
10/24/22		23	863.6143147	55.73077597
11/16/22		35	4912.504582	2.18333537
12/21/22		35	5189.047151	14.24444316

Date	TSS Ann Load	Ecoli Ann Load
1/26/22	5075.369504	9.37E+10
2/23/22	1331172.902	4.97E+13
3/23/22	20423000.03	1.39E+15
4/27/22	18249.67599	1.20E+13
5/24/22	14098.02325	1.29E+12
6/27/22	1634.737738	2.06E+12
7/25/22	36209.66308	2.34E+13
8/22/22	3939.133938	1.41E+12
9/28/22	446.2564473	2.52E+11
10/24/22	850.8515416	6.31E+10
11/16/22	2183.33537	3.50E+11
12/21/22	12209.52271	6.25E+11



date	S4 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
2/17/22	747.76	1	0.273		4030.41	322.43	60456.18	4.30E+12	2.29E+12
3/7/22	513.14	2	0.546		2765.80	221.26	41486.99	2.95E+12	1.57E+12
2/18/22	362.01	3	0.820		1951.21	156.10	29268.18	2.08E+12	1.11E+12
3/23/22	334.85	4	1.093		1804.85	144.39	27072.75	1.93E+12	1.02E+12
5/1/22	220.46	5	1.366		1188.26	95.06	17823.91	1.27E+12	6.74E+11
3/8/22	201.02	6	1.639		1083.52	86.68	16252.75	1.16E+12	6.15E+11
2/22/22	165.73	7	1.913		893.26	71.46	13398.89	9.53E+11	5.07E+11
2/16/22	147.22	8	2.186		793.53	63.48	11902.99	8.46E+11	4.50E+11
3/24/22	143.26	9	2.459		772.17	61.77	11582.57	8.24E+11	4.38E+11
5/6/22	136.81	10	2.732		737.42	58.99	11061.30	7.87E+11	4.18E+11
1/2/22	130.64	11	3.005		704.17	56.33	10562.48	7.51E+11	4.00E+11
2/19/22	125.11	12	3.279		674.36	53.95	10115.42	7.19E+11	3.83E+11
2/23/22	118.71	13	3.552		639.87	51.19	9598.02	6.83E+11	3.63E+11
8/30/22	116.63	14	3.825		628.66	50.29	9429.85	6.71E+11	3.57E+11
2/2/22	115.72	15	4.098		623.75	49.90	9356.24	6.65E+11	3.54E+11
5/7/22	110.46	16	4.372		595.40	47.63	8931.03	6.35E+11	3.38E+11
5/4/22	101.31	17	4.645		546.04	43.68	8190.54	5.82E+11	3.10E+11
3/9/22	99.92	18	4.918		538.56	43.08	8078.37	5.74E+11	3.06E+11
6/12/22	98.41	19	5.191		530.45	42.44	7956.78	5.66E+11	3.01E+11
6/13/22	93.45	20	5.464		503.72	40.30	7555.79	5.37E+11	2.86E+11
5/2/22	82.47	21	5.738		444.49	35.56	6667.33	4.74E+11	2.52E+11
4/14/22	81.36	22	6.011		438.52	35.08	6577.80	4.68E+11	2.49E+11
5/27/22	80.68	23	6.284		434.85	34.79	6522.68	4.64E+11	2.47E+11
5/3/22	79.08	24	6.557		426.23	34.10	6393.42	4.55E+11	2.42E+11
6/14/22	78.01	25	6.831		420.47	33.64	6307.00	4.49E+11	2.39E+11
3/25/22	77.85	26	7.104		419.63	33.57	6294.40	4.48E+11	2.38E+11
2/21/22	76.30	27	7.377		411.23	32.90	6168.45	4.39E+11	2.33E+11
2/20/22	74.80	28	7.650		403.17	32.25	6047.55	4.30E+11	2.29E+11
3/22/22	72.46	29	7.923		390.58	31.25	5858.69	4.17E+11	2.22E+11
2/3/22	68.38	30	8.197		368.55	29.48	5528.28	3.93E+11	2.09E+11
1/1/22	67.33	31	8.470		362.90	29.03	5443.54	3.87E+11	2.06E+11
5/5/22	63.95	32	8.743		344.71	27.58	5170.63	3.68E+11	1.96E+11
3/10/22	63.61	33	9.016		342.86	27.43	5142.88	3.66E+11	1.95E+11
12/31/22	63.03	34	9.290		339.75	27.18	5096.30	3.62E+11	1.93E+11
3/26/22	59.89	35	9.563		322.79	25.82	4841.84	3.44E+11	1.83E+11
4/25/22	59.80	36	9.836		322.31	25.78	4834.61	3.44E+11	1.83E+11
2/24/22	59.52	37	10.109		320.83	25.67	4812.41	3.42E+11	1.82E+11
2/12/22	58.23	38	10.383		313.84	25.11	4707.60	3.35E+11	1.78E+11
1/3/22	57.62	39	10.656		310.57	24.85	4658.53	3.31E+11	1.76E+11
5/26/22	56.59	40	10.929		305.00	24.40	4575.04	3.25E+11	1.73E+11
9/11/22	54.78	41	11.202		295.29	23.62	4429.31	3.15E+11	1.68E+11
5/8/22	51.06	42	11.475		275.23	22.02	4128.47	2.94E+11	1.56E+11
3/11/22	50.41	43	11.749		271.70	21.74	4075.53	2.90E+11	1.54E+11
4/7/22	49.71	44	12.022		267.94	21.43	4019.04	2.86E+11	1.52E+11
4/15/22	49.23	45	12.295		265.33	21.23	3979.95	2.83E+11	1.51E+11
1/9/22	49.20	46	12.568		265.17	21.21	3977.52	2.83E+11	1.50E+11
4/26/22	48.40	47	12.842		260.87	20.87	3913.04	2.78E+11	1.48E+11
3/19/22	47.83	48	13.115		257.78	20.62	3866.65	2.75E+11	1.46E+11
3/27/22	46.81	49	13.388		252.31	20.19	3784.72	2.69E+11	1.43E+11
2/25/22	46.62	50	13.661		251.29	20.10	3769.38	2.68E+11	1.43E+11
3/1/22	45.07	51	13.934		242.91	19.43	3643.62	2.59E+11	1.38E+11
3/20/22	43.70	52	14.208		235.56	18.85	3533.44	2.51E+11	1.34E+11
2/28/22	43.32	53	14.481		233.47	18.68	3502.08	2.49E+11	1.32E+11
2/27/22	41.61	54	14.754		224.30	17.94	3364.47	2.39E+11	1.27E+11
10/26/22	41.33	55	15.027		222.74	17.82	3341.16	2.38E+11	1.26E+11
3/2/22	40.52	56	15.301		218.39	17.47	3275.87	2.33E+11	1.24E+11
4/6/22	40.50	57	15.574		218.30	17.46	3274.56	2.33E+11	1.24E+11
5/28/22	40.47	58	15.847		218.15	17.45	3272.31	2.33E+11	1.24E+11
8/9/22	39.53	59	16.120		213.06	17.04	3195.92	2.27E+11	1.21E+11
3/12/22	39.02	60	16.393		210.32	16.83	3154.84	2.24E+11	1.19E+11

date	S4 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
3/28/22	37.71	61	16.667		203.23	16.26	3048.47	2.17E+11	1.15E+11
4/8/22	37.66	62	16.940		202.97	16.24	3044.54	2.17E+11	1.15E+11
2/26/22	37.41	63	17.213		201.64	16.13	3024.65	2.15E+11	1.14E+11
1/4/22	37.34	64	17.486		201.28	16.10	3019.16	2.15E+11	1.14E+11
12/15/22	36.24	65	17.760		195.32	15.63	2929.75	2.08E+11	1.11E+11
3/31/22	35.90	66	18.033		193.48	15.48	2902.25	2.06E+11	1.10E+11
3/21/22	35.81	67	18.306		193.04	15.44	2895.58	2.06E+11	1.10E+11
4/16/22	35.74	68	18.579		192.66	15.41	2889.91	2.06E+11	1.09E+11
6/15/22	34.68	69	18.852		186.94	14.96	2804.17	1.99E+11	1.06E+11
5/9/22	34.22	70	19.126		184.47	14.76	2767.07	1.97E+11	1.05E+11
4/9/22	33.49	71	19.399		180.51	14.44	2707.71	1.93E+11	1.02E+11
11/27/22	33.23	72	19.672		179.08	14.33	2686.27	1.91E+11	1.02E+11
3/3/22	32.63	73	19.945		175.90	14.07	2638.50	1.88E+11	9.98E+10
3/29/22	32.63	74	20.219		175.90	14.07	2638.44	1.88E+11	9.98E+10
4/13/22	32.43	75	20.492		174.77	13.98	2621.59	1.86E+11	9.92E+10
2/13/22	31.26	76	20.765		168.48	13.48	2527.20	1.80E+11	9.56E+10
4/27/22	31.22	77	21.038		168.30	13.46	2524.46	1.80E+11	9.55E+10
3/13/22	31.21	78	21.311		168.23	13.46	2523.40	1.79E+11	9.54E+10
3/30/22	30.67	79	21.585		165.31	13.22	2479.63	1.76E+11	9.38E+10
7/25/22	30.03	80	21.858		161.88	12.95	2428.19	1.73E+11	9.18E+10
1/5/22	29.75	81	22.131		160.35	12.83	2405.24	1.71E+11	9.10E+10
2/11/22	29.11	82	22.404		156.89	12.55	2353.36	1.67E+11	8.90E+10
3/6/22	28.76	83	22.678		155.00	12.40	2325.06	1.65E+11	8.79E+10
3/14/22	28.72	84	22.951		154.80	12.38	2322.06	1.65E+11	8.78E+10
1/10/22	28.72	85	23.224		154.79	12.38	2321.88	1.65E+11	8.78E+10
4/10/22	28.42	86	23.497		153.19	12.25	2297.81	1.63E+11	8.69E+10
4/1/22	28.32	87	23.770		152.63	12.21	2289.51	1.63E+11	8.66E+10
2/4/22	27.76	88	24.044		149.60	11.97	2244.02	1.60E+11	8.49E+10
4/17/22	27.71	89	24.317		149.35	11.95	2240.19	1.59E+11	8.47E+10
4/18/22	27.15	90	24.590		146.34	11.71	2195.05	1.56E+11	8.30E+10
3/4/22	26.66	91	24.863		143.71	11.50	2155.71	1.53E+11	8.15E+10
3/15/22	26.33	92	25.137		141.90	11.35	2128.52	1.51E+11	8.05E+10
4/11/22	26.21	93	25.410		141.27	11.30	2118.98	1.51E+11	8.02E+10
5/10/22	25.79	94	25.683		139.00	11.12	2084.94	1.48E+11	7.89E+10
5/29/22	25.47	95	25.956		137.29	10.98	2059.37	1.46E+11	7.79E+10
4/19/22	25.45	96	26.230		137.19	10.98	2057.88	1.46E+11	7.78E+10
4/2/22	25.09	97	26.503		135.25	10.82	2028.69	1.44E+11	7.67E+10
3/18/22	25.01	98	26.776		134.78	10.78	2021.77	1.44E+11	7.65E+10
4/28/22	24.97	99	27.049		134.61	10.77	2019.22	1.44E+11	7.64E+10
3/5/22	24.60	100	27.322		132.59	10.61	1988.79	1.41E+11	7.52E+10
3/16/22	24.59	101	27.596		132.52	10.60	1987.79	1.41E+11	7.52E+10
4/3/22	23.96	102	27.869		129.14	10.33	1937.04	1.38E+11	7.33E+10
4/5/22	23.92	103	28.142		128.93	10.31	1933.92	1.38E+11	7.32E+10
4/12/22	23.56	104	28.415		126.99	10.16	1904.80	1.35E+11	7.21E+10
3/17/22	22.90	105	28.689		123.42	9.87	1851.24	1.32E+11	7.00E+10
9/12/22	22.69	106	28.962		122.32	9.79	1834.78	1.30E+11	6.94E+10
4/4/22	22.49	107	29.235		121.23	9.70	1818.51	1.29E+11	6.88E+10
6/16/22	22.17	108	29.508		119.52	9.56	1792.75	1.27E+11	6.78E+10
4/29/22	22.04	109	29.781		118.77	9.50	1781.59	1.27E+11	6.74E+10
4/20/22	21.96	110	30.055		118.38	9.47	1775.67	1.26E+11	6.72E+10
4/21/22	21.64	111	30.328		116.65	9.33	1749.79	1.24E+11	6.62E+10
5/20/22	21.37	112	30.601		115.19	9.22	1727.91	1.23E+11	6.54E+10
2/14/22	21.20	113	30.874		114.25	9.14	1713.71	1.22E+11	6.48E+10
5/11/22	21.16	114	31.148		114.03	9.12	1710.45	1.22E+11	6.47E+10
4/30/22	20.97	115	31.421		113.01	9.04	1695.11	1.21E+11	6.41E+10
1/6/22	20.96	116	31.694		112.95	9.04	1694.30	1.20E+11	6.41E+10
5/16/22	20.14	117	31.967		108.55	8.68	1628.27	1.16E+11	6.16E+10
11/28/22	19.89	118	32.240		107.20	8.58	1608.07	1.14E+11	6.08E+10
4/22/22	19.82	119	32.514		106.85	8.55	1602.77	1.14E+11	6.06E+10
4/23/22	19.45	120	32.787		104.84	8.39	1572.59	1.12E+11	5.95E+10

date	S4 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
12/30/22	18.64	121	33.060		100.49	8.04	1507.30	1.07E+11	5.70E+10
5/30/22	18.53	122	33.333		99.86	7.99	1497.83	1.07E+11	5.67E+10
4/24/22	18.32	123	33.607		98.74	7.90	1481.05	1.05E+11	5.60E+10
5/12/22	18.25	124	33.880		98.38	7.87	1475.63	1.05E+11	5.58E+10
1/11/22	17.92	125	34.153		96.58	7.73	1448.63	1.03E+11	5.48E+10
8/31/22	17.17	126	34.426		92.57	7.41	1388.59	9.87E+10	5.25E+10
12/27/22	16.57	127	34.699		89.33	7.15	1339.95	9.53E+10	5.07E+10
5/14/22	16.24	128	34.973		87.54	7.00	1313.14	9.34E+10	4.97E+10
6/17/22	16.20	129	35.246		87.33	6.99	1310.02	9.32E+10	4.96E+10
5/13/22	16.12	130	35.519		86.89	6.95	1303.41	9.27E+10	4.93E+10
5/19/22	15.93	131	35.792		85.84	6.87	1287.58	9.16E+10	4.87E+10
5/15/22	15.87	132	36.066		85.53	6.84	1282.90	9.12E+10	4.85E+10
12/16/22	15.76	133	36.339		84.97	6.80	1274.54	9.06E+10	4.82E+10
2/10/22	15.71	134	36.612		84.69	6.78	1270.37	9.03E+10	4.81E+10
8/10/22	14.93	135	36.885		80.49	6.44	1207.39	8.59E+10	4.57E+10
1/7/22	14.86	136	37.158		80.07	6.41	1201.09	8.54E+10	4.54E+10
5/18/22	14.48	137	37.432		78.06	6.24	1170.85	8.33E+10	4.43E+10
1/12/22	14.35	138	37.705		77.36	6.19	1160.38	8.25E+10	4.39E+10
5/31/22	14.27	139	37.978		76.93	6.15	1153.95	8.21E+10	4.36E+10
12/26/22	14.27	140	38.251		76.90	6.15	1153.46	8.20E+10	4.36E+10
5/17/22	14.22	141	38.525		76.66	6.13	1149.90	8.18E+10	4.35E+10
2/15/22	14.01	142	38.798		75.52	6.04	1132.85	8.06E+10	4.29E+10
5/21/22	13.55	143	39.071		73.01	5.84	1095.16	7.79E+10	4.14E+10
1/8/22	13.54	144	39.344		72.98	5.84	1094.66	7.78E+10	4.14E+10
2/9/22	13.03	145	39.617		70.22	5.62	1053.26	7.49E+10	3.98E+10
5/25/22	12.99	146	39.891		70.00	5.60	1050.01	7.47E+10	3.97E+10
6/1/22	12.52	147	40.164		67.49	5.40	1012.35	7.20E+10	3.83E+10
1/13/22	12.50	148	40.437		67.40	5.39	1010.98	7.19E+10	3.82E+10
2/8/22	12.14	149	40.710		65.43	5.23	981.38	6.98E+10	3.71E+10
12/29/22	11.88	150	40.984		64.03	5.12	960.48	6.83E+10	3.63E+10
12/28/22	11.68	151	41.257		62.96	5.04	944.39	6.72E+10	3.57E+10
5/22/22	11.03	152	41.530		59.46	4.76	891.83	6.34E+10	3.37E+10
2/5/22	10.99	153	41.803		59.26	4.74	888.89	6.32E+10	3.36E+10
8/1/22	10.94	154	42.077		58.99	4.72	884.85	6.29E+10	3.35E+10
6/18/22	10.94	155	42.350		58.94	4.72	884.16	6.29E+10	3.34E+10
6/2/22	10.79	156	42.623		58.17	4.65	872.56	6.20E+10	3.30E+10
8/4/22	10.72	157	42.896		57.78	4.62	866.63	6.16E+10	3.28E+10
1/14/22	10.34	158	43.169		55.74	4.46	836.14	5.95E+10	3.16E+10
7/24/22	10.10	159	43.443		54.46	4.36	816.96	5.81E+10	3.09E+10
6/7/22	10.07	160	43.716		54.27	4.34	814.01	5.79E+10	3.08E+10
10/25/22	9.55	161	43.989		51.46	4.12	771.90	5.49E+10	2.92E+10
10/27/22	9.50	162	44.262		51.22	4.10	768.34	5.46E+10	2.91E+10
12/25/22	9.43	163	44.536		50.81	4.07	762.19	5.42E+10	2.88E+10
11/29/22	9.14	164	44.809		49.28	3.94	739.24	5.26E+10	2.80E+10
5/23/22	8.99	165	45.082		48.46	3.88	726.90	5.17E+10	2.75E+10
7/26/22	8.92	166	45.355		48.06	3.84	720.91	5.13E+10	2.73E+10
9/13/22	8.86	167	45.628		47.77	3.82	716.50	5.10E+10	2.71E+10
2/6/22	8.79	168	45.902		47.35	3.79	710.32	5.05E+10	2.69E+10
12/17/22	8.78	169	46.175		47.34	3.79	710.13	5.05E+10	2.69E+10
2/7/22	8.77	170	46.448		47.29	3.78	709.32	5.04E+10	2.68E+10
12/19/22	8.77	171	46.721		47.27	3.78	709.01	5.04E+10	2.68E+10
6/3/22	8.72	172	46.995		46.98	3.76	704.64	5.01E+10	2.67E+10
1/15/22	8.60	173	47.268		46.35	3.71	695.23	4.94E+10	2.63E+10
6/26/22	8.31	174	47.541		44.81	3.58	672.13	4.78E+10	2.54E+10
6/19/22	8.06	175	47.814		43.43	3.47	651.39	4.63E+10	2.46E+10
11/30/22	7.91	176	48.087		42.62	3.41	639.30	4.55E+10	2.42E+10
12/24/22	7.81	177	48.361		42.08	3.37	631.22	4.49E+10	2.39E+10
1/16/22	7.71	178	48.634		41.56	3.33	623.46	4.43E+10	2.36E+10
6/8/22	7.67	179	48.907		41.34	3.31	620.11	4.41E+10	2.35E+10
5/24/22	7.66	180	49.180		41.30	3.30	619.46	4.41E+10	2.34E+10

date	S4 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/6/22	7.51	181	49.454		40.50	3.24	607.47	4.32E+10	2.30E+10
8/11/22	7.43	182	49.727		40.06	3.20	600.86	4.27E+10	2.27E+10
6/11/22	7.39	183	50.000		39.85	3.19	597.79	4.25E+10	2.26E+10
7/27/22	7.03	184	50.273		37.88	3.03	568.23	4.04E+10	2.15E+10
6/4/22	7.01	185	50.546		37.76	3.02	566.36	4.03E+10	2.14E+10
6/9/22	6.95	186	50.820		37.48	3.00	562.21	4.00E+10	2.13E+10
8/2/22	6.76	187	51.093		36.43	2.91	546.45	3.89E+10	2.07E+10
6/10/22	6.56	188	51.366		35.37	2.83	530.57	3.77E+10	2.01E+10
8/5/22	6.54	189	51.639		35.25	2.82	528.72	3.76E+10	2.00E+10
12/23/22	6.48	190	51.913		34.91	2.79	523.68	3.72E+10	1.98E+10
7/28/22	6.45	191	52.186		34.77	2.78	521.61	3.71E+10	1.97E+10
9/1/22	6.40	192	52.459		34.48	2.76	517.27	3.68E+10	1.96E+10
6/20/22	6.32	193	52.732		34.05	2.72	510.76	3.63E+10	1.93E+10
6/5/22	6.30	194	53.005		33.94	2.72	509.06	3.62E+10	1.93E+10
12/14/22	6.23	195	53.279		33.57	2.69	503.56	3.58E+10	1.90E+10
12/18/22	6.22	196	53.552		33.51	2.68	502.59	3.57E+10	1.90E+10
8/29/22	6.19	197	53.825		33.34	2.67	500.07	3.56E+10	1.89E+10
1/17/22	5.87	198	54.098		31.65	2.53	474.68	3.38E+10	1.80E+10
7/9/22	5.83	199	54.372		31.41	2.51	471.20	3.35E+10	1.78E+10
6/21/22	5.56	200	54.645		29.98	2.40	449.68	3.20E+10	1.70E+10
6/27/22	5.39	201	54.918		29.07	2.33	436.11	3.10E+10	1.65E+10
12/21/22	5.37	202	55.191		28.95	2.32	434.30	3.09E+10	1.64E+10
8/12/22	5.34	203	55.464		28.78	2.30	431.69	3.07E+10	1.63E+10
6/22/22	5.28	204	55.738		28.47	2.28	427.04	3.04E+10	1.62E+10
12/1/22	5.02	205	56.011		27.07	2.17	406.10	2.89E+10	1.54E+10
8/14/22	5.02	206	56.284		27.06	2.16	405.84	2.89E+10	1.54E+10
2/1/22	4.94	207	56.557		26.64	2.13	399.65	2.84E+10	1.51E+10
9/14/22	4.94	208	56.831		26.61	2.13	399.12	2.84E+10	1.51E+10
7/29/22	4.93	209	57.104		26.57	2.13	398.50	2.83E+10	1.51E+10
10/28/22	4.83	210	57.377		26.02	2.08	390.25	2.78E+10	1.48E+10
6/23/22	4.46	211	57.650		24.05	1.92	360.79	2.57E+10	1.36E+10
12/20/22	4.46	212	57.923		24.03	1.92	360.42	2.56E+10	1.36E+10
12/22/22	4.44	213	58.197		23.92	1.91	358.86	2.55E+10	1.36E+10
8/21/22	4.41	214	58.470		23.75	1.90	356.25	2.53E+10	1.35E+10
1/18/22	4.34	215	58.743		23.40	1.87	350.97	2.50E+10	1.33E+10
12/10/22	4.30	216	59.016		23.20	1.86	347.93	2.47E+10	1.32E+10
12/2/22	4.16	217	59.290		22.43	1.79	336.52	2.39E+10	1.27E+10
8/15/22	4.13	218	59.563		22.26	1.78	333.91	2.37E+10	1.26E+10
8/3/22	4.10	219	59.836		22.07	1.77	331.08	2.35E+10	1.25E+10
8/13/22	4.01	220	60.109		21.64	1.73	324.54	2.31E+10	1.23E+10
8/20/22	4.01	221	60.383		21.61	1.73	324.19	2.31E+10	1.23E+10
7/30/22	3.86	222	60.656		20.82	1.67	312.37	2.22E+10	1.18E+10
12/3/22	3.85	223	60.929		20.73	1.66	310.99	2.21E+10	1.18E+10
8/16/22	3.77	224	61.202		20.33	1.63	304.98	2.17E+10	1.15E+10
7/8/22	3.76	225	61.475		20.26	1.62	303.92	2.16E+10	1.15E+10
9/2/22	3.72	226	61.749		20.06	1.60	300.92	2.14E+10	1.14E+10
7/10/22	3.68	227	62.022		19.81	1.58	297.16	2.11E+10	1.12E+10
8/23/22	3.64	228	62.295		19.61	1.57	294.17	2.09E+10	1.11E+10
9/19/22	3.63	229	62.568		19.57	1.57	293.59	2.09E+10	1.11E+10
1/31/22	3.58	230	62.842		19.29	1.54	289.31	2.06E+10	1.09E+10
12/7/22	3.55	231	63.115		19.16	1.53	287.38	2.04E+10	1.09E+10
10/29/22	3.51	232	63.388		18.92	1.51	283.87	2.02E+10	1.07E+10
10/18/22	3.51	233	63.661		18.91	1.51	283.65	2.02E+10	1.07E+10
12/6/22	3.48	234	63.934		18.74	1.50	281.08	2.00E+10	1.06E+10
12/9/22	3.46	235	64.208		18.62	1.49	279.36	1.99E+10	1.06E+10
12/11/22	3.45	236	64.481		18.60	1.49	279.01	1.98E+10	1.06E+10
10/19/22	3.45	237	64.754		18.59	1.49	278.89	1.98E+10	1.05E+10
12/5/22	3.44	238	65.027		18.56	1.49	278.44	1.98E+10	1.05E+10
9/15/22	3.37	239	65.301		18.18	1.45	272.66	1.94E+10	1.03E+10
12/4/22	3.36	240	65.574		18.09	1.45	271.30	1.93E+10	1.03E+10

date	S4 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/24/22	3.34	241	65.847		17.99	1.44	269.87	1.92E+10	1.02E+10
12/8/22	3.31	242	66.120		17.85	1.43	267.69	1.90E+10	1.01E+10
6/28/22	3.30	243	66.393		17.81	1.42	267.11	1.90E+10	1.01E+10
8/22/22	3.28	244	66.667		17.67	1.41	265.08	1.89E+10	1.00E+10
11/13/22	3.23	245	66.940		17.43	1.39	261.42	1.86E+10	9.89E+09
1/19/22	3.23	246	67.213		17.39	1.39	260.78	1.85E+10	9.86E+09
12/12/22	3.21	247	67.486		17.33	1.39	259.93	1.85E+10	9.83E+09
10/31/22	3.11	248	67.760		16.75	1.34	251.32	1.79E+10	9.51E+09
9/24/22	3.10	249	68.033		16.69	1.33	250.31	1.78E+10	9.47E+09
12/13/22	3.07	250	68.306		16.56	1.32	248.42	1.77E+10	9.40E+09
1/30/22	3.07	251	68.579		16.53	1.32	248.01	1.76E+10	9.38E+09
11/4/22	3.06	252	68.852		16.49	1.32	247.38	1.76E+10	9.36E+09
11/6/22	2.99	253	69.126		16.12	1.29	241.77	1.72E+10	9.15E+09
9/3/22	2.99	254	69.399		16.11	1.29	241.70	1.72E+10	9.14E+09
8/19/22	2.98	255	69.672		16.09	1.29	241.32	1.72E+10	9.13E+09
6/25/22	2.98	256	69.945		16.08	1.29	241.23	1.72E+10	9.12E+09
11/5/22	2.98	257	70.219		16.07	1.29	240.98	1.71E+10	9.12E+09
10/13/22	2.97	258	70.492		16.01	1.28	240.19	1.71E+10	9.09E+09
10/30/22	2.96	259	70.765		15.94	1.28	239.07	1.70E+10	9.04E+09
10/15/22	2.93	260	71.038		15.79	1.26	236.88	1.68E+10	8.96E+09
1/29/22	2.92	261	71.311		15.76	1.26	236.44	1.68E+10	8.94E+09
1/20/22	2.89	262	71.585		15.59	1.25	233.85	1.66E+10	8.85E+09
10/14/22	2.89	263	71.858		15.56	1.24	233.42	1.66E+10	8.83E+09
11/16/22	2.88	264	72.131		15.53	1.24	232.99	1.66E+10	8.81E+09
7/1/22	2.86	265	72.404		15.43	1.23	231.48	1.65E+10	8.76E+09
1/28/22	2.85	266	72.678		15.38	1.23	230.65	1.64E+10	8.72E+09
6/29/22	2.83	267	72.951		15.23	1.22	228.41	1.62E+10	8.64E+09
11/1/22	2.81	268	73.224		15.17	1.21	227.50	1.62E+10	8.61E+09
1/24/22	2.79	269	73.497		15.04	1.20	225.67	1.60E+10	8.54E+09
1/25/22	2.79	270	73.770		15.04	1.20	225.67	1.60E+10	8.54E+09
1/26/22	2.79	271	74.044		15.04	1.20	225.67	1.60E+10	8.54E+09
1/27/22	2.79	272	74.317		15.04	1.20	225.67	1.60E+10	8.54E+09
1/21/22	2.72	273	74.590		14.69	1.17	220.28	1.57E+10	8.33E+09
1/23/22	2.70	274	74.863		14.54	1.16	218.08	1.55E+10	8.25E+09
11/19/22	2.69	275	75.137		14.52	1.16	217.85	1.55E+10	8.24E+09
9/16/22	2.68	276	75.410		14.47	1.16	217.07	1.54E+10	8.21E+09
11/14/22	2.68	277	75.683		14.46	1.16	216.89	1.54E+10	8.20E+09
10/16/22	2.68	278	75.956		14.45	1.16	216.77	1.54E+10	8.20E+09
11/15/22	2.68	279	76.230		14.44	1.15	216.56	1.54E+10	8.19E+09
1/22/22	2.66	280	76.503		14.35	1.15	215.29	1.53E+10	8.14E+09
11/17/22	2.65	281	76.776		14.27	1.14	214.01	1.52E+10	8.09E+09
7/11/22	2.63	282	77.049		14.18	1.13	212.63	1.51E+10	8.04E+09
11/18/22	2.61	283	77.322		14.08	1.13	211.26	1.50E+10	7.99E+09
11/2/22	2.61	284	77.596		14.06	1.12	210.83	1.50E+10	7.97E+09
9/20/22	2.61	285	77.869		14.05	1.12	210.78	1.50E+10	7.97E+09
11/12/22	2.59	286	78.142		13.97	1.12	209.51	1.49E+10	7.92E+09
8/17/22	2.54	287	78.415		13.71	1.10	205.59	1.46E+10	7.78E+09
11/10/22	2.52	288	78.689		13.56	1.08	203.44	1.45E+10	7.70E+09
10/17/22	2.51	289	78.962		13.52	1.08	202.86	1.44E+10	7.67E+09
11/3/22	2.51	290	79.235		13.51	1.08	202.58	1.44E+10	7.66E+09
6/30/22	2.47	291	79.508		13.30	1.06	199.55	1.42E+10	7.55E+09
8/24/22	2.44	292	79.781		13.14	1.05	197.07	1.40E+10	7.45E+09
11/20/22	2.40	293	80.055		12.94	1.04	194.14	1.38E+10	7.34E+09
11/23/22	2.40	294	80.328		12.94	1.04	194.13	1.38E+10	7.34E+09
11/7/22	2.40	295	80.601		12.91	1.03	193.68	1.38E+10	7.33E+09
11/24/22	2.38	296	80.874		12.84	1.03	192.53	1.37E+10	7.28E+09
11/25/22	2.34	297	81.148		12.62	1.01	189.30	1.35E+10	7.16E+09
11/11/22	2.33	298	81.421		12.56	1.00	188.37	1.34E+10	7.13E+09
9/25/22	2.32	299	81.694		12.51	1.00	187.58	1.33E+10	7.10E+09
11/22/22	2.31	300	81.967		12.47	1.00	187.08	1.33E+10	7.08E+09

date	S4 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
11/8/22	2.31	301	82.240		12.43	0.99	186.40	1.33E+10	7.05E+09
10/12/22	2.30	302	82.514		12.37	0.99	185.61	1.32E+10	7.02E+09
8/6/22	2.29	303	82.787		12.33	0.99	184.94	1.32E+10	7.00E+09
11/21/22	2.26	304	83.060		12.17	0.97	182.49	1.30E+10	6.90E+09
9/22/22	2.25	305	83.333		12.13	0.97	181.99	1.29E+10	6.88E+09
8/27/22	2.14	306	83.607		11.56	0.92	173.38	1.23E+10	6.56E+09
11/26/22	2.12	307	83.880		11.41	0.91	171.18	1.22E+10	6.47E+09
9/23/22	2.11	308	84.153		11.37	0.91	170.53	1.21E+10	6.45E+09
9/17/22	2.08	309	84.426		11.20	0.90	167.94	1.19E+10	6.35E+09
8/8/22	2.08	310	84.699		11.19	0.90	167.84	1.19E+10	6.35E+09
8/7/22	2.05	311	84.973		11.06	0.89	165.97	1.18E+10	6.28E+09
10/20/22	2.01	312	85.246		10.86	0.87	162.89	1.16E+10	6.16E+09
9/4/22	2.01	313	85.519		10.83	0.87	162.50	1.16E+10	6.15E+09
7/18/22	2.00	314	85.792		10.77	0.86	161.62	1.15E+10	6.11E+09
9/21/22	1.97	315	86.066		10.64	0.85	159.66	1.14E+10	6.04E+09
7/2/22	1.93	316	86.339		10.41	0.83	156.19	1.11E+10	5.91E+09
9/26/22	1.90	317	86.612		10.24	0.82	153.57	1.09E+10	5.81E+09
7/19/22	1.90	318	86.885		10.22	0.82	153.27	1.09E+10	5.80E+09
9/18/22	1.88	319	87.158		10.11	0.81	151.63	1.08E+10	5.74E+09
9/5/22	1.86	320	87.432		10.01	0.80	150.21	1.07E+10	5.68E+09
9/27/22	1.76	321	87.705		9.50	0.76	142.51	1.01E+10	5.39E+09
10/24/22	1.71	322	87.978		9.21	0.74	138.17	9.83E+09	5.23E+09
7/12/22	1.62	323	88.251		8.73	0.70	130.90	9.31E+09	4.95E+09
7/3/22	1.57	324	88.525		8.44	0.68	126.66	9.01E+09	4.79E+09
7/31/22	1.53	325	88.798		8.22	0.66	123.35	8.77E+09	4.67E+09
9/6/22	1.50	326	89.071		8.07	0.65	120.98	8.60E+09	4.58E+09
10/4/22	1.48	327	89.344		7.98	0.64	119.72	8.51E+09	4.53E+09
8/18/22	1.44	328	89.617		7.79	0.62	116.81	8.31E+09	4.42E+09
9/29/22	1.29	329	89.891		6.93	0.55	103.99	7.40E+09	3.93E+09
10/10/22	1.26	330	90.164		6.78	0.54	101.69	7.23E+09	3.85E+09
7/4/22	1.20	331	90.437		6.48	0.52	97.23	6.91E+09	3.68E+09
10/9/22	1.19	332	90.710		6.43	0.51	96.46	6.86E+09	3.65E+09
8/25/22	1.18	333	90.984		6.34	0.51	95.07	6.76E+09	3.60E+09
9/7/22	1.13	334	91.257		6.12	0.49	91.73	6.52E+09	3.47E+09
10/11/22	0.99	335	91.530		5.33	0.43	79.90	5.68E+09	3.02E+09
11/9/22	0.98	336	91.803		5.29	0.42	79.41	5.65E+09	3.00E+09
10/5/22	0.86	337	92.077		4.64	0.37	69.67	4.95E+09	2.64E+09
9/28/22	0.79	338	92.350		4.27	0.34	64.10	4.56E+09	2.42E+09
10/23/22	0.76	339	92.623		4.11	0.33	61.70	4.39E+09	2.33E+09
10/1/22	0.70	340	92.896		3.78	0.30	56.69	4.03E+09	2.14E+09
10/8/22	0.65	341	93.169		3.52	0.28	52.86	3.76E+09	2.00E+09
7/17/22	0.62	342	93.443		3.34	0.27	50.11	3.56E+09	1.90E+09
10/21/22	0.62	343	93.716		3.34	0.27	50.11	3.56E+09	1.90E+09
7/6/22	0.60	344	93.989		3.22	0.26	48.31	3.44E+09	1.83E+09
7/7/22	0.60	345	94.262		3.21	0.26	48.19	3.43E+09	1.82E+09
8/28/22	0.48	346	94.536		2.57	0.21	38.62	2.75E+09	1.46E+09
9/8/22	0.46	347	94.809		2.46	0.20	36.86	2.62E+09	1.39E+09
10/3/22	0.42	348	95.082		2.25	0.18	33.74	2.40E+09	1.28E+09
9/30/22	0.41	349	95.355		2.19	0.18	32.90	2.34E+09	1.24E+09
9/10/22	0.39	350	95.628		2.09	0.17	31.28	2.22E+09	1.18E+09
7/22/22	0.36	351	95.902		1.92	0.15	28.84	2.05E+09	1.09E+09
7/21/22	0.35	352	96.175		1.88	0.15	28.21	2.01E+09	1.07E+09
7/14/22	0.34	353	96.448		1.85	0.15	27.82	1.98E+09	1.05E+09
10/7/22	0.34	354	96.721		1.84	0.15	27.64	1.97E+09	1.05E+09
7/23/22	0.34	355	96.995		1.83	0.15	27.39	1.95E+09	1.04E+09
8/26/22	0.34	356	97.268		1.82	0.15	27.30	1.94E+09	1.03E+09
7/16/22	0.32	357	97.541		1.71	0.14	25.64	1.82E+09	9.70E+08
10/22/22	0.30	358	97.814		1.63	0.13	24.50	1.74E+09	9.27E+08
7/13/22	0.30	359	98.087		1.63	0.13	24.47	1.74E+09	9.26E+08
10/6/22	0.29	360	98.361		1.55	0.12	23.21	1.65E+09	8.78E+08

date	S4 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
7/5/22	0.26	361	98.634		1.43	0.11	21.42	1.52E+09	8.10E+08
7/20/22	0.24	362	98.907		1.27	0.10	19.04	1.35E+09	7.20E+08
10/2/22	0.21	363	99.180		1.11	0.09	16.59	1.18E+09	6.27E+08
7/15/22	0.20	364	99.454		1.07	0.09	16.07	1.14E+09	6.08E+08
9/9/22	0.10	365	99.727		0.54	0.04	8.07	5.74E+08	3.05E+08
<b>TOTAL NUMBER</b>	365								
					1.00	0.08	15.00	235.00	125.00
					5.39	5.39	5.39	24465758.40	24465758.40

Date	Flow	NO3_N (mg/L)	TP (mg/L)	TSS (mg/L)	Ecoli (col/100 mL)
1/26/22	2.79	3.36	0.168	9	14.3
2/23/22	118.71	3.33	0.581	21	98.5
3/23/22	334.85	5.51	1.99	127	870.4
4/27/22	31.22	3.71	0.305	4	206.4
5/24/22	7.66	3.32	0.225	3	196.8
6/27/22	5.39	2.47	0.25	4	579.4
7/25/22	7.03	0.978	0.207	3	547.5
8/22/22	3.28	0.752	0.25	3	816.4
9/28/22	0.79	0.189	0.313	4	26.9
10/24/22	1.71	0.567	0.044	2	52.1
11/16/22	2.88	0.863	0.039	3	28.2
12/21/22	5.37	0.915	0.02	4	27.5
1/25/23					



Date	% Flow Exceed		NO3 Act Load	TP Act Load	TSS Act Load	Ecoli Act Load
1/26/22	74.04371585		50.54907207	2.5274536	135.3993002	9.77E+08
2/23/22	3.551912568		2130.759692	371.763178	13437.22328	2.86E+11
3/23/22	1.092896175		9944.724188	3591.65175	229215.9659	7.13E+12
4/27/22	21.03825137		624.382661	51.33065	673.1888528	1.58E+11
5/24/22	49.18032787		137.1080363	9.29196029	123.8928039	3.69E+10
6/27/22	54.91803279		71.8129118	7.26851334	116.2962134	7.65E+10
7/25/22	21.8579235		37.04860944	7.84157684	113.6460412	9.41E+10
8/22/22	66.66666667		13.28957633	4.41807724	53.01692683	6.55E+10
9/28/22	92.34972678		0.807715636	1.33764547	17.09451082	5.22E+08
10/24/22	87.97814208		5.222693547	0.40528839	18.42219946	2.18E+09
11/16/22	72.13114754		13.40444176	0.60576272	46.59713243	1.99E+09
12/21/22	55.19125683		26.49207723	0.5790618	115.8123595	3.61E+09
1/25/23						

Date	Ann Load Proxy Range		NO3 Ann Load	TP Ann Load
1/26/22		28	1415.374018	70.76870089
2/23/22		28	59661.27138	10409.36897
3/23/22		35	348065.3466	125707.8112
4/27/22		27	16858.33185	1385.927551
5/24/22		34	4661.673234	315.9266499
6/27/22		28	2010.76153	203.5183735
7/25/22		28	1037.361064	219.5641516
8/22/22		37	491.7143241	163.4688577
9/28/22		26	21.00060654	34.77878226
10/24/22		23	120.1219516	9.321632926
11/16/22		35	469.1554617	21.20169525
12/21/22		35	927.222703	20.26716291
1/25/23				

Date	TSS Ann Load	Ecoli Ann Load
1/26/22	3791.180405	2.73E+10
2/23/22	376242.252	8.01E+12
3/23/22	8022558.805	2.50E+14
4/27/22	18176.09903	4.26E+12
5/24/22	4212.355332	1.25E+12
6/27/22	3256.293976	2.14E+12
7/25/22	3182.089154	2.64E+12
8/22/22	1961.626293	2.42E+12
9/28/22	444.4572813	1.36E+10
10/24/22	423.7105876	5.01E+10
11/16/22	1630.899635	6.96E+10
12/21/22	4053.432581	1.26E+11
1/25/23		

date	S5	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
2/18/22	4367.03	1	0.273		23538.29	1883.06	353074.32	2.51E+13	1.34E+13
2/17/22	4272.09	2	0.546		23026.57	1842.13	345398.57	2.46E+13	1.31E+13
3/7/22	2678.62	3	0.820		14437.76	1155.02	216566.40	1.54E+13	8.19E+12
3/8/22	2642.36	4	1.093		14242.33	1139.39	213634.92	1.52E+13	8.08E+12
3/23/22	2488.84	5	1.366		13414.87	1073.19	201223.07	1.43E+13	7.61E+12
2/19/22	1916.69	6	1.639		10330.96	826.48	154964.42	1.10E+13	5.86E+12
3/24/22	1891.88	7	1.913		10197.25	815.78	152958.72	1.09E+13	5.79E+12
1/2/22	1828.06	8	2.186		9853.27	788.26	147799.03	1.05E+13	5.59E+12
5/7/22	1810.71	9	2.459		9759.70	780.78	146395.55	1.04E+13	5.54E+12
2/23/22	1795.43	10	2.732		9677.37	774.19	145160.49	1.03E+13	5.49E+12
2/16/22	1646.36	11	3.005		8873.86	709.91	133107.93	9.47E+12	5.03E+12
2/22/22	1621.52	12	3.279		8740.01	699.20	131100.19	9.32E+12	4.96E+12
5/4/22	1525.89	13	3.552		8224.55	657.96	123368.30	8.77E+12	4.67E+12
5/6/22	1474.51	14	3.825		7947.60	635.81	119214.00	8.48E+12	4.51E+12
3/9/22	1403.18	15	4.098		7563.13	605.05	113446.98	8.07E+12	4.29E+12
2/21/22	1172.84	16	4.372		6321.61	505.73	94824.10	6.74E+12	3.59E+12
1/3/22	1159.84	17	4.645		6251.52	500.12	93772.77	6.67E+12	3.55E+12
2/20/22	1154.22	18	4.918		6221.24	497.70	93318.55	6.64E+12	3.53E+12
5/27/22	1142.67	19	5.191		6158.97	492.72	92384.60	6.57E+12	3.49E+12
3/25/22	1102.01	20	5.464		5939.86	475.19	89097.91	6.34E+12	3.37E+12
5/8/22	1040.72	21	5.738		5609.49	448.76	84142.35	5.98E+12	3.18E+12
2/24/22	967.18	22	6.011		5213.11	417.05	78196.71	5.56E+12	2.96E+12
5/5/22	924.13	23	6.284		4981.07	398.49	74716.08	5.31E+12	2.83E+12
1/1/22	920.16	24	6.557		4959.64	396.77	74394.56	5.29E+12	2.81E+12
3/10/22	884.36	25	6.831		4766.72	381.34	71500.84	5.08E+12	2.70E+12
5/2/22	819.73	26	7.104		4418.35	353.47	66275.31	4.71E+12	2.51E+12
3/26/22	775.73	27	7.377		4181.17	334.49	62717.62	4.46E+12	2.37E+12
5/3/22	771.59	28	7.650		4158.89	332.71	62383.34	4.44E+12	2.36E+12
2/12/22	725.07	29	7.923		3908.13	312.65	58622.01	4.17E+12	2.22E+12
5/28/22	720.35	30	8.197		3882.68	310.61	58240.27	4.14E+12	2.20E+12
1/4/22	703.14	31	8.470		3789.90	303.19	56848.53	4.04E+12	2.15E+12
2/25/22	650.22	32	8.743		3504.68	280.37	52570.22	3.74E+12	1.99E+12
5/9/22	632.39	33	9.016		3408.56	272.69	51128.46	3.64E+12	1.93E+12
6/12/22	617.54	34	9.290		3328.54	266.28	49928.10	3.55E+12	1.89E+12
3/11/22	609.33	35	9.563		3284.28	262.74	49264.13	3.50E+12	1.86E+12
6/14/22	589.51	36	9.836		3177.47	254.20	47662.12	3.39E+12	1.80E+12
3/2/22	588.66	37	10.109		3172.88	253.83	47593.23	3.38E+12	1.80E+12
3/1/22	587.42	38	10.383		3166.18	253.29	47492.69	3.38E+12	1.80E+12
3/27/22	586.79	39	10.656		3162.81	253.02	47442.16	3.37E+12	1.79E+12
5/1/22	552.24	40	10.929		2976.60	238.13	44648.98	3.18E+12	1.69E+12
2/13/22	543.40	41	11.202		2928.93	234.31	43933.98	3.12E+12	1.66E+12
4/15/22	541.17	42	11.475		2916.89	233.35	43753.31	3.11E+12	1.66E+12
1/5/22	538.91	43	11.749		2904.71	232.38	43570.60	3.10E+12	1.65E+12
4/14/22	511.35	44	12.022		2756.19	220.50	41342.90	2.94E+12	1.56E+12
5/16/22	511.35	45	12.295		2756.16	220.49	41342.39	2.94E+12	1.56E+12
2/28/22	503.06	46	12.568		2711.52	216.92	40672.80	2.89E+12	1.54E+12
2/3/22	500.55	47	12.842		2697.94	215.84	40469.17	2.88E+12	1.53E+12
6/13/22	497.58	48	13.115		2681.95	214.56	40229.30	2.86E+12	1.52E+12
3/22/22	489.58	49	13.388		2638.85	211.11	39582.68	2.81E+12	1.50E+12
3/20/22	487.84	50	13.661		2629.45	210.36	39441.82	2.80E+12	1.49E+12
3/3/22	479.90	51	13.934		2586.69	206.93	38800.31	2.76E+12	1.47E+12
3/28/22	446.39	52	14.208		2406.02	192.48	36090.32	2.57E+12	1.37E+12
3/12/22	444.80	53	14.481		2397.45	191.80	35961.71	2.56E+12	1.36E+12
2/26/22	443.10	54	14.754		2388.29	191.06	35824.42	2.55E+12	1.36E+12
5/10/22	432.47	55	15.027		2331.03	186.48	34965.49	2.49E+12	1.32E+12
5/29/22	424.40	56	15.301		2287.52	183.00	34312.75	2.44E+12	1.30E+12
4/7/22	421.31	57	15.574		2270.84	181.67	34062.67	2.42E+12	1.29E+12
2/27/22	420.45	58	15.847		2266.25	181.30	33993.78	2.42E+12	1.29E+12
3/21/22	410.49	59	16.120		2212.56	177.00	33188.43	2.36E+12	1.26E+12
3/31/22	401.75	60	16.393		2165.44	173.24	32481.59	2.31E+12	1.23E+12
6/15/22	396.65	61	16.667		2137.95	171.04	32069.22	2.28E+12	1.21E+12

date	S5	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
1/6/22	392.02	62	16.940		2113.01	169.04	31695.13	2.25E+12	1.20E+12
4/8/22	386.67	63	17.213		2084.16	166.73	31262.35	2.22E+12	1.18E+12
4/26/22	379.08	64	17.486		2043.26	163.46	30648.90	2.18E+12	1.16E+12
3/19/22	367.23	65	17.760		1979.36	158.35	29690.46	2.11E+12	1.12E+12
3/29/22	366.75	66	18.033		1976.78	158.14	29651.67	2.11E+12	1.12E+12
3/4/22	364.87	67	18.306		1966.67	157.33	29500.09	2.10E+12	1.12E+12
4/16/22	361.33	68	18.579		1947.55	155.80	29213.27	2.08E+12	1.11E+12
4/25/22	357.39	69	18.852		1926.32	154.11	28894.81	2.05E+12	1.09E+12
4/1/22	351.61	70	19.126		1895.19	151.62	28427.84	2.02E+12	1.08E+12
3/30/22	342.74	71	19.399		1847.35	147.79	27710.28	1.97E+12	1.05E+12
5/17/22	337.47	72	19.672		1818.98	145.52	27284.64	1.94E+12	1.03E+12
3/13/22	336.37	73	19.945		1813.06	145.04	27195.84	1.93E+12	1.03E+12
5/11/22	334.81	74	20.219		1804.62	144.37	27069.27	1.92E+12	1.02E+12
1/10/22	333.29	75	20.492		1796.45	143.72	26946.78	1.92E+12	1.02E+12
2/2/22	327.37	76	20.765		1764.53	141.16	26467.98	1.88E+12	1.00E+12
4/9/22	323.82	77	21.038		1745.42	139.63	26181.25	1.86E+12	9.90E+11
3/5/22	319.81	78	21.311		1723.78	137.90	25856.66	1.84E+12	9.78E+11
1/9/22	311.48	79	21.585		1678.87	134.31	25182.99	1.79E+12	9.53E+11
2/14/22	309.80	80	21.858		1669.85	133.59	25047.73	1.78E+12	9.47E+11
5/30/22	307.27	81	22.131		1656.17	132.49	24842.59	1.77E+12	9.40E+11
3/6/22	306.88	82	22.404		1654.06	132.33	24810.95	1.76E+12	9.38E+11
5/26/22	303.44	83	22.678		1635.55	130.84	24533.31	1.74E+12	9.28E+11
1/7/22	301.92	84	22.951		1627.36	130.19	24410.39	1.74E+12	9.23E+11
5/15/22	301.65	85	23.224		1625.89	130.07	24388.37	1.73E+12	9.23E+11
4/2/22	294.62	86	23.497		1587.99	127.04	23819.83	1.69E+12	9.01E+11
4/10/22	288.39	87	23.770		1554.41	124.35	23316.11	1.66E+12	8.82E+11
3/14/22	284.64	88	24.044		1534.23	122.74	23013.47	1.64E+12	8.71E+11
5/12/22	283.42	89	24.317		1527.63	122.21	22914.46	1.63E+12	8.67E+11
2/4/22	281.52	90	24.590		1517.41	121.39	22761.15	1.62E+12	8.61E+11
4/3/22	276.19	91	24.863		1488.67	119.09	22330.11	1.59E+12	8.45E+11
4/17/22	275.61	92	25.137		1485.54	118.84	22283.15	1.58E+12	8.43E+11
4/27/22	270.83	93	25.410		1459.75	116.78	21896.30	1.56E+12	8.28E+11
4/11/22	269.12	94	25.683		1450.57	116.05	21758.51	1.55E+12	8.23E+11
4/6/22	260.10	95	25.956		1401.95	112.16	21029.21	1.50E+12	7.95E+11
5/18/22	258.05	96	26.230		1390.89	111.27	20863.34	1.48E+12	7.89E+11
5/20/22	255.59	97	26.503		1377.65	110.21	20664.81	1.47E+12	7.82E+11
4/4/22	252.72	98	26.776		1362.17	108.97	20432.60	1.45E+12	7.73E+11
5/13/22	251.16	99	27.049		1353.77	108.30	20306.55	1.44E+12	7.68E+11
3/15/22	250.87	100	27.322		1352.17	108.17	20282.56	1.44E+12	7.67E+11
6/16/22	245.48	101	27.596		1323.11	105.85	19846.71	1.41E+12	7.51E+11
5/31/22	244.56	102	27.869		1318.18	105.45	19772.71	1.41E+12	7.48E+11
4/18/22	244.51	103	28.142		1317.91	105.43	19768.63	1.41E+12	7.48E+11
5/19/22	244.08	104	28.415		1315.60	105.25	19733.93	1.40E+12	7.46E+11
4/12/22	243.14	105	28.689		1310.53	104.84	19657.88	1.40E+12	7.44E+11
4/5/22	241.52	106	28.962		1301.82	104.15	19527.23	1.39E+12	7.39E+11
5/21/22	239.35	107	29.235		1290.11	103.21	19351.67	1.38E+12	7.32E+11
5/14/22	238.91	108	29.508		1287.73	103.02	19315.94	1.37E+12	7.31E+11
4/13/22	237.78	109	29.781		1281.64	102.53	19224.59	1.37E+12	7.27E+11
1/12/22	234.40	110	30.055		1263.40	101.07	18950.94	1.35E+12	7.17E+11
3/16/22	231.86	111	30.328		1249.73	99.98	18745.88	1.33E+12	7.09E+11
1/8/22	230.88	112	30.601		1244.45	99.56	18666.77	1.33E+12	7.06E+11
4/19/22	227.94	113	30.874		1228.60	98.29	18428.95	1.31E+12	6.97E+11
1/13/22	225.60	114	31.148		1215.97	97.28	18239.60	1.30E+12	6.90E+11
3/17/22	221.55	115	31.421		1194.13	95.53	17911.96	1.27E+12	6.78E+11
4/28/22	221.33	116	31.694		1192.97	95.44	17894.60	1.27E+12	6.77E+11
1/11/22	219.97	117	31.967		1185.66	94.85	17784.88	1.26E+12	6.73E+11
3/18/22	216.89	118	32.240		1169.05	93.52	17535.82	1.25E+12	6.63E+11
6/1/22	208.83	119	32.514		1125.57	90.05	16883.59	1.20E+12	6.39E+11
1/14/22	204.60	120	32.787		1102.78	88.22	16541.65	1.18E+12	6.26E+11
4/20/22	202.19	121	33.060		1089.78	87.18	16346.69	1.16E+12	6.18E+11
2/5/22	200.58	122	33.333		1081.14	86.49	16217.06	1.15E+12	6.13E+11

date	S5	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
4/29/22	197.98	123	33.607		1067.12	85.37	16006.80	1.14E+12	6.05E+11
2/11/22	194.00	124	33.880		1045.68	83.65	15685.27	1.12E+12	5.93E+11
4/21/22	192.94	125	34.153		1039.93	83.19	15599.02	1.11E+12	5.90E+11
5/22/22	192.37	126	34.426		1036.87	82.95	15553.09	1.11E+12	5.88E+11
6/2/22	190.61	127	34.699		1027.38	82.19	15410.70	1.10E+12	5.83E+11
6/17/22	185.27	128	34.973		998.60	79.89	14978.94	1.07E+12	5.67E+11
4/30/22	185.09	129	35.246		997.61	79.81	14964.14	1.06E+12	5.66E+11
1/15/22	183.79	130	35.519		990.63	79.25	14859.52	1.06E+12	5.62E+11
4/22/22	182.36	131	35.792		982.91	78.63	14743.67	1.05E+12	5.58E+11
2/15/22	174.22	132	36.066		939.05	75.12	14085.82	1.00E+12	5.33E+11
6/3/22	173.06	133	36.339		932.79	74.62	13991.91	9.95E+11	5.29E+11
4/24/22	172.25	134	36.612		928.41	74.27	13926.08	9.90E+11	5.27E+11
4/23/22	171.12	135	36.885		922.31	73.79	13834.72	9.84E+11	5.23E+11
2/6/22	170.28	136	37.158		917.82	73.43	13767.36	9.79E+11	5.21E+11
5/23/22	168.34	137	37.432		907.38	72.59	13610.68	9.68E+11	5.15E+11
1/16/22	166.66	138	37.705		898.29	71.86	13474.41	9.58E+11	5.10E+11
5/24/22	157.25	139	37.978		847.60	67.81	12713.98	9.04E+11	4.81E+11
6/4/22	156.65	140	38.251		844.33	67.55	12664.99	9.01E+11	4.79E+11
5/25/22	156.33	141	38.525		842.60	67.41	12638.96	8.99E+11	4.78E+11
2/10/22	154.18	142	38.798		831.03	66.48	12465.44	8.86E+11	4.72E+11
6/18/22	153.75	143	39.071		828.72	66.30	12430.74	8.84E+11	4.70E+11
1/17/22	153.62	144	39.344		828.00	66.24	12420.02	8.83E+11	4.70E+11
2/9/22	150.93	145	39.617		813.54	65.08	12203.09	8.68E+11	4.62E+11
6/7/22	150.32	146	39.891		810.24	64.82	12153.61	8.64E+11	4.60E+11
1/18/22	147.86	147	40.164		796.97	63.76	11954.57	8.50E+11	4.52E+11
2/7/22	146.04	148	40.437		787.17	62.97	11807.59	8.40E+11	4.47E+11
6/5/22	145.55	149	40.710		784.52	62.76	11767.78	8.37E+11	4.45E+11
6/6/22	144.32	150	40.984		777.88	62.23	11668.26	8.30E+11	4.41E+11
6/8/22	143.43	151	41.257		773.09	61.85	11596.30	8.25E+11	4.39E+11
2/8/22	139.38	152	41.530		751.24	60.10	11268.66	8.01E+11	4.26E+11
1/19/22	135.44	153	41.803		730.01	58.40	10950.19	7.79E+11	4.14E+11
6/19/22	133.61	154	42.077		720.15	57.61	10802.19	7.68E+11	4.09E+11
6/9/22	132.45	155	42.350		713.92	57.11	10708.79	7.62E+11	4.05E+11
6/11/22	130.32	156	42.623		702.42	56.19	10536.29	7.49E+11	3.99E+11
6/10/22	124.35	157	42.896		670.27	53.62	10054.01	7.15E+11	3.80E+11
6/20/22	121.19	158	43.169		653.19	52.25	9797.81	6.97E+11	3.71E+11
1/20/22	116.65	159	43.443		628.76	50.30	9431.37	6.71E+11	3.57E+11
8/30/22	115.63	160	43.716		623.25	49.86	9348.70	6.65E+11	3.54E+11
12/31/22	114.85	161	43.989		619.06	49.52	9285.92	6.60E+11	3.51E+11
8/31/22	113.52	162	44.262		611.85	48.95	9177.73	6.53E+11	3.47E+11
6/21/22	112.34	163	44.536		605.49	48.44	9082.29	6.46E+11	3.44E+11
6/22/22	107.82	164	44.809		581.16	46.49	8717.39	6.20E+11	3.30E+11
1/21/22	104.84	165	45.082		565.07	45.21	8475.99	6.03E+11	3.21E+11
1/28/22	103.62	166	45.355		558.53	44.68	8378.00	5.96E+11	3.17E+11
2/1/22	103.32	167	45.628		556.90	44.55	8353.50	5.94E+11	3.16E+11
1/23/22	103.02	168	45.902		555.27	44.42	8329.01	5.92E+11	3.15E+11
6/23/22	103.02	169	46.175		555.27	44.42	8329.01	5.92E+11	3.15E+11
6/26/22	102.63	170	46.448		553.19	44.26	8297.87	5.90E+11	3.14E+11
1/24/22	102.11	171	46.721		550.37	44.03	8255.51	5.87E+11	3.12E+11
1/27/22	101.20	172	46.995		545.47	43.64	8182.02	5.82E+11	3.09E+11
6/27/22	100.24	173	47.268		540.30	43.22	8104.45	5.76E+11	3.07E+11
1/30/22	99.38	174	47.541		535.67	42.85	8035.04	5.71E+11	3.04E+11
1/31/22	99.38	175	47.814		535.67	42.85	8035.04	5.71E+11	3.04E+11
6/24/22	97.72	176	48.087		526.69	42.13	7900.31	5.62E+11	2.99E+11
1/26/22	97.56	177	48.361		525.87	42.07	7888.06	5.61E+11	2.98E+11
1/29/22	97.56	178	48.634		525.87	42.07	7888.06	5.61E+11	2.98E+11
1/22/22	96.96	179	48.907		522.60	41.81	7839.06	5.57E+11	2.97E+11
1/25/22	96.96	180	49.180		522.60	41.81	7839.06	5.57E+11	2.97E+11
6/25/22	91.87	181	49.454		495.18	39.61	7427.72	5.28E+11	2.81E+11
6/28/22	87.14	182	49.727		469.70	37.58	7045.46	5.01E+11	2.67E+11
8/4/22	76.76	183	50.000		413.75	33.10	6206.18	4.41E+11	2.35E+11

date	S5	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/29/22	75.58	184	50.273		407.40	32.59	6111.00	4.35E+11	2.31E+11
6/30/22	68.44	185	50.546		368.89	29.51	5533.28	3.93E+11	2.09E+11
9/12/22	68.00	186	50.820		366.51	29.32	5497.60	3.91E+11	2.08E+11
8/10/22	62.19	187	51.093		335.22	26.82	5028.28	3.58E+11	1.90E+11
7/1/22	61.76	188	51.366		332.89	26.63	4993.42	3.55E+11	1.89E+11
7/2/22	61.20	189	51.639		329.88	26.39	4948.15	3.52E+11	1.87E+11
12/16/22	58.38	190	51.913		314.65	25.17	4719.77	3.36E+11	1.79E+11
7/3/22	57.19	191	52.186		308.25	24.66	4623.77	3.29E+11	1.75E+11
7/9/22	53.08	192	52.459		286.09	22.89	4291.38	3.05E+11	1.62E+11
7/4/22	52.65	193	52.732		283.81	22.70	4257.13	3.03E+11	1.61E+11
7/10/22	52.46	194	53.005		282.74	22.62	4241.06	3.02E+11	1.60E+11
9/1/22	51.39	195	53.279		276.97	22.16	4154.50	2.95E+11	1.57E+11
11/28/22	50.53	196	53.552		272.38	21.79	4085.70	2.91E+11	1.55E+11
7/26/22	50.31	197	53.825		271.16	21.69	4067.38	2.89E+11	1.54E+11
12/30/22	50.23	198	54.098		270.72	21.66	4060.85	2.89E+11	1.54E+11
8/5/22	49.31	199	54.372		265.77	21.26	3986.49	2.83E+11	1.51E+11
7/5/22	48.98	200	54.645		264.02	21.12	3960.31	2.82E+11	1.50E+11
7/8/22	48.09	201	54.918		259.18	20.73	3887.74	2.76E+11	1.47E+11
10/27/22	48.07	202	55.191		259.09	20.73	3886.31	2.76E+11	1.47E+11
9/13/22	47.35	203	55.464		255.24	20.42	3828.59	2.72E+11	1.45E+11
8/11/22	46.74	204	55.738		251.92	20.15	3778.83	2.69E+11	1.43E+11
7/19/22	46.65	205	56.011		251.43	20.11	3771.38	2.68E+11	1.43E+11
12/17/22	45.50	206	56.284		245.24	19.62	3678.59	2.62E+11	1.39E+11
11/29/22	44.43	207	56.557		239.49	19.16	3592.39	2.55E+11	1.36E+11
7/11/22	44.17	208	56.831		238.09	19.05	3571.42	2.54E+11	1.35E+11
7/6/22	43.64	209	57.104		235.23	18.82	3528.40	2.51E+11	1.33E+11
7/7/22	42.46	210	57.377		228.87	18.31	3433.06	2.44E+11	1.30E+11
7/27/22	42.17	211	57.650		227.30	18.18	3409.53	2.42E+11	1.29E+11
8/9/22	40.62	212	57.923		218.94	17.51	3284.04	2.34E+11	1.24E+11
7/18/22	40.05	213	58.197		215.88	17.27	3238.16	2.30E+11	1.22E+11
7/12/22	39.53	214	58.470		213.05	17.04	3195.75	2.27E+11	1.21E+11
7/20/22	39.37	215	58.743		212.19	16.98	3182.83	2.26E+11	1.20E+11
8/6/22	38.62	216	59.016		208.18	16.65	3122.71	2.22E+11	1.18E+11
7/25/22	36.99	217	59.290		199.38	15.95	2990.63	2.13E+11	1.13E+11
8/12/22	36.85	218	59.563		198.63	15.89	2979.51	2.12E+11	1.13E+11
7/17/22	36.60	219	59.836		197.26	15.78	2958.94	2.10E+11	1.12E+11
8/14/22	36.03	220	60.109		194.19	15.54	2912.91	2.07E+11	1.10E+11
7/28/22	35.52	221	60.383		191.48	15.32	2872.13	2.04E+11	1.09E+11
8/3/22	34.91	222	60.656		188.16	15.05	2822.42	2.01E+11	1.07E+11
11/30/22	34.69	223	60.929		186.99	14.96	2804.81	1.99E+11	1.06E+11
8/2/22	34.55	224	61.202		186.25	14.90	2793.74	1.99E+11	1.06E+11
12/18/22	34.39	225	61.475		185.34	14.83	2780.11	1.98E+11	1.05E+11
7/13/22	33.56	226	61.749		180.89	14.47	2713.36	1.93E+11	1.03E+11
12/15/22	33.17	227	62.022		178.76	14.30	2681.41	1.91E+11	1.01E+11
7/29/22	33.08	228	62.295		178.29	14.26	2674.37	1.90E+11	1.01E+11
9/14/22	32.90	229	62.568		177.34	14.19	2660.08	1.89E+11	1.01E+11
7/14/22	32.52	230	62.842		175.27	14.02	2629.05	1.87E+11	9.94E+10
7/16/22	32.45	231	63.115		174.93	13.99	2623.89	1.87E+11	9.93E+10
7/21/22	32.01	232	63.388		172.51	13.80	2587.66	1.84E+11	9.79E+10
11/27/22	31.06	233	63.661		167.39	13.39	2510.90	1.79E+11	9.50E+10
9/2/22	30.99	234	63.934		167.05	13.36	2505.80	1.78E+11	9.48E+10
8/13/22	30.98	235	64.208		166.98	13.36	2504.72	1.78E+11	9.47E+10
8/15/22	30.91	236	64.481		166.58	13.33	2498.70	1.78E+11	9.45E+10
7/15/22	30.38	237	64.754		163.76	13.10	2456.34	1.75E+11	9.29E+10
8/7/22	29.87	238	65.027		160.99	12.88	2414.90	1.72E+11	9.13E+10
12/20/22	29.86	239	65.301		160.95	12.88	2414.29	1.72E+11	9.13E+10
7/30/22	29.63	240	65.574		159.71	12.78	2395.66	1.70E+11	9.06E+10
8/29/22	29.48	241	65.847		158.89	12.71	2383.41	1.69E+11	9.02E+10
12/1/22	29.07	242	66.120		156.69	12.54	2350.34	1.67E+11	8.89E+10
8/1/22	28.94	243	66.393		156.00	12.48	2339.98	1.66E+11	8.85E+10
8/16/22	28.52	244	66.667		153.74	12.30	2306.09	1.64E+11	8.72E+10

date	S5	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
10/28/22	28.30	245	66.940		152.52	12.20	2287.82	1.63E+11	8.65E+10
10/26/22	28.13	246	67.213		151.64	12.13	2274.55	1.62E+11	8.60E+10
8/21/22	28.08	247	67.486		151.37	12.11	2270.62	1.61E+11	8.59E+10
7/24/22	27.91	248	67.760		150.42	12.03	2256.23	1.60E+11	8.53E+10
7/22/22	27.80	249	68.033		149.83	11.99	2247.50	1.60E+11	8.50E+10
12/24/22	27.63	250	68.306		148.91	11.91	2233.60	1.59E+11	8.45E+10
8/22/22	27.31	251	68.579		147.21	11.78	2208.21	1.57E+11	8.35E+10
12/29/22	27.24	252	68.852		146.84	11.75	2202.54	1.57E+11	8.33E+10
7/31/22	26.90	253	69.126		144.99	11.60	2174.88	1.55E+11	8.23E+10
7/23/22	26.53	254	69.399		143.01	11.44	2145.13	1.53E+11	8.11E+10
12/23/22	26.44	255	69.672		142.53	11.40	2137.93	1.52E+11	8.09E+10
12/19/22	26.05	256	69.945		140.42	11.23	2106.34	1.50E+11	7.97E+10
12/21/22	26.02	257	70.219		140.25	11.22	2103.69	1.50E+11	7.96E+10
8/8/22	25.97	258	70.492		139.95	11.20	2099.30	1.49E+11	7.94E+10
12/2/22	25.85	259	70.765		139.35	11.15	2090.32	1.49E+11	7.91E+10
8/17/22	25.69	260	71.038		138.49	11.08	2077.35	1.48E+11	7.86E+10
9/15/22	25.25	261	71.311		136.08	10.89	2041.22	1.45E+11	7.72E+10
8/23/22	25.07	262	71.585		135.11	10.81	2026.67	1.44E+11	7.67E+10
8/18/22	24.90	263	71.858		134.21	10.74	2013.15	1.43E+11	7.61E+10
12/22/22	24.07	264	72.131		129.73	10.38	1945.88	1.38E+11	7.36E+10
9/3/22	23.62	265	72.404		127.29	10.18	1909.39	1.36E+11	7.22E+10
8/19/22	23.27	266	72.678		125.41	10.03	1881.22	1.34E+11	7.12E+10
12/3/22	23.25	267	72.951		125.34	10.03	1880.15	1.34E+11	7.11E+10
8/24/22	22.70	268	73.224		122.36	9.79	1835.34	1.31E+11	6.94E+10
10/29/22	22.69	269	73.497		122.32	9.79	1834.73	1.30E+11	6.94E+10
12/14/22	22.19	270	73.770		119.58	9.57	1793.70	1.28E+11	6.78E+10
8/25/22	21.93	271	74.044		118.19	9.46	1772.82	1.26E+11	6.71E+10
12/4/22	21.81	272	74.317		117.58	9.41	1763.69	1.25E+11	6.67E+10
12/9/22	21.67	273	74.590		116.81	9.34	1752.15	1.25E+11	6.63E+10
8/26/22	21.67	274	74.863		116.80	9.34	1751.95	1.25E+11	6.63E+10
8/20/22	21.44	275	75.137		115.55	9.24	1733.32	1.23E+11	6.56E+10
12/10/22	21.38	276	75.410		115.24	9.22	1728.63	1.23E+11	6.54E+10
9/19/22	21.09	277	75.683		113.66	9.09	1704.89	1.21E+11	6.45E+10
12/25/22	21.06	278	75.956		113.52	9.08	1702.85	1.21E+11	6.44E+10
12/5/22	21.05	279	76.230		113.48	9.08	1702.24	1.21E+11	6.44E+10
12/11/22	21.00	280	76.503		113.18	9.05	1697.75	1.21E+11	6.42E+10
9/16/22	20.93	281	76.776		112.79	9.02	1691.83	1.20E+11	6.40E+10
12/28/22	20.88	282	77.049		112.52	9.00	1687.80	1.20E+11	6.38E+10
12/12/22	20.77	283	77.322		111.95	8.96	1679.22	1.19E+11	6.35E+10
12/6/22	20.70	284	77.596		111.57	8.93	1673.61	1.19E+11	6.33E+10
8/28/22	20.68	285	77.869		111.44	8.92	1671.67	1.19E+11	6.32E+10
8/27/22	20.57	286	78.142		110.85	8.87	1662.79	1.18E+11	6.29E+10
12/7/22	20.35	287	78.415		109.68	8.77	1645.23	1.17E+11	6.22E+10
9/4/22	20.28	288	78.689		109.30	8.74	1639.57	1.17E+11	6.20E+10
12/8/22	20.22	289	78.962		109.00	8.72	1634.98	1.16E+11	6.18E+10
9/11/22	20.00	290	79.235		107.79	8.62	1616.86	1.15E+11	6.12E+10
10/30/22	19.87	291	79.508		107.08	8.57	1606.14	1.14E+11	6.08E+10
12/13/22	19.81	292	79.781		106.79	8.54	1601.90	1.14E+11	6.06E+10
11/8/22	19.70	293	80.055		106.17	8.49	1592.62	1.13E+11	6.02E+10
11/7/22	19.70	294	80.328		106.16	8.49	1592.46	1.13E+11	6.02E+10
11/5/22	19.44	295	80.601		104.81	8.38	1572.10	1.12E+11	5.95E+10
11/25/22	19.19	296	80.874		103.46	8.28	1551.89	1.10E+11	5.87E+10
11/17/22	19.02	297	81.148		102.54	8.20	1538.11	1.09E+11	5.82E+10
11/18/22	19.02	298	81.421		102.54	8.20	1538.11	1.09E+11	5.82E+10
11/26/22	18.99	299	81.694		102.34	8.19	1535.05	1.09E+11	5.81E+10
10/31/22	18.96	300	81.967		102.20	8.18	1533.01	1.09E+11	5.80E+10
11/21/22	18.94	301	82.240		102.10	8.17	1531.48	1.09E+11	5.79E+10
11/16/22	18.88	302	82.514		101.76	8.14	1526.37	1.09E+11	5.77E+10
11/22/22	18.77	303	82.787		101.15	8.09	1517.19	1.08E+11	5.74E+10
9/5/22	18.63	304	83.060		100.41	8.03	1506.21	1.07E+11	5.70E+10
11/15/22	18.56	305	83.333		100.02	8.00	1500.34	1.07E+11	5.68E+10





date	S5	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
<b>TOTAL NUMBER OF</b>		365							
					1.00	0.08	15.00	2.35E+02	1.25E+02
					5.39	5.39	5.39	2.45E+07	2.45E+07

Date	Flow	NO3_N (mg/L)	TP (mg/L)	TSS (mg/L)	Ecoli (col/100 mL)
1/26/22	97.56	3.71	0.076	5	11
2/23/22	1795.43	4.64	0.85	58	365.4
3/23/22	2488.84	3.12	2.19	250	2419.6
4/27/22	270.83	3.67	0.308	4	93.4
5/24/22	157.25	2.74	0.258	5	30.1
6/27/22	100.24	1.82	0.281	6	251
7/25/22	42.17	0.801	0.203	7	135.4
8/22/22	27.31	0.314	0.024	3	78.4
9/28/22	13.66	1.07	0.098	3	43.2
10/24/22	12.77	0.752	0.011	2	24.1
11/16/22	18.88	0.224	0.033	3	58.4
12/21/22	26.02	2.24	0.043	3	23.3
1/25/23					

Date	% Flow Exceed		NO3 Act Load	TP Act Load	TSS Act Load	Ecoli Act Load
1/26/22	48.36065574		1950.979817	39.9661634	2629.352853	2.63E+10
2/23/22	2.732240437		44902.97749	8225.76096	561287.2186	1.61E+13
3/23/22	1.366120219		41854.398	29378.5678	3353717.789	1.47E+14
4/27/22	25.40983607		5357.29555	449.604095	5839.014224	6.19E+11
5/24/22	37.97814208		2322.420819	218.6805	4237.994195	1.16E+11
6/27/22	47.26775956		983.3398604	151.823352	3241.77976	6.16E+11
7/25/22	59.28961749		182.0690994	46.142356	1591.115725	1.40E+11
8/22/22	68.57923497		46.22513913	3.53313165	441.6414567	5.24E+10
9/28/22	94.53551913		78.78123633	7.21547772	220.881971	1.44E+10
10/24/22	95.90163934		51.77805472	0.75739176	137.7075924	7.53E+09
11/16/22	82.5136612		22.79382178	3.35801839	305.2743988	2.70E+10
12/21/22	70.21857923		314.1505061	6.03056775	420.7372849	1.48E+10
1/25/23						

Date	Ann Load Proxy Range		NO3 Ann Load	TP Ann Load	TSS Ann Load
1/26/22		28	54627.43487	1119.052574	73621.87988
2/23/22		28	1257283.37	230321.3069	15716042.12
3/23/22		35	1464903.93	1028249.874	117380122.6
4/27/22		27	144646.9799	12139.31057	157653.384
5/24/22		34	78962.30783	7435.137015	144091.8026
6/27/22		28	27533.51609	4251.053858	90769.83327
7/25/22		28	5097.934783	1291.985969	44551.2403
8/22/22		37	1710.330148	130.7258712	16340.7339
9/28/22		26	2048.312145	187.6024207	5742.931247
10/24/22		23	1190.895259	17.42001043	3167.274624
11/16/22		35	797.7837621	117.5306435	10684.60396
12/21/22		35	10995.26771	211.0698713	14725.80497
1/25/23					

Date	Ecoli Ann Load
1/26/22	7.35E+11
2/23/22	4.49E+14
3/23/22	5.16E+15
4/27/22	1.67E+13
5/24/22	3.94E+12
6/27/22	1.72E+13
7/25/22	3.91E+12
8/22/22	1.94E+12
9/28/22	3.75E+11
10/24/22	1.73E+11
11/16/22	9.44E+11
12/21/22	5.19E+11
1/25/23	

date	S6 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
2/18/22	3764.26	1	0.273		20289.38	1623.15	304340.63	2.16E+13	1.15E+13
2/17/22	3682.43	2	0.546		19848.29	1587.86	297724.33	2.12E+13	1.13E+13
3/7/22	2308.90	3	0.820		12444.96	995.60	186674.45	1.33E+13	7.06E+12
3/8/22	2277.64	4	1.093		12276.51	982.12	184147.59	1.31E+13	6.97E+12
3/23/22	2145.32	5	1.366		11563.26	925.06	173448.91	1.23E+13	6.56E+12
2/19/22	1652.14	6	1.639		8905.01	712.40	133575.19	9.50E+12	5.05E+12
3/24/22	1630.75	7	1.913		8789.76	703.18	131846.33	9.38E+12	4.99E+12
1/2/22	1575.74	8	2.186		8493.25	679.46	127398.81	9.06E+12	4.82E+12
5/7/22	1560.78	9	2.459		8412.60	673.01	126189.05	8.97E+12	4.77E+12
2/23/22	1547.61	10	2.732		8341.63	667.33	125124.46	8.90E+12	4.73E+12
2/16/22	1419.12	11	3.005		7649.03	611.92	114735.47	8.16E+12	4.34E+12
2/22/22	1397.71	12	3.279		7533.66	602.69	113004.86	8.04E+12	4.27E+12
5/4/22	1315.28	13	3.552		7089.34	567.15	106340.17	7.56E+12	4.02E+12
5/6/22	1270.99	14	3.825		6850.62	548.05	102759.28	7.31E+12	3.89E+12
3/9/22	1209.50	15	4.098		6519.22	521.54	97788.27	6.95E+12	3.70E+12
2/21/22	1010.96	16	4.372		5449.06	435.92	81735.84	5.81E+12	3.09E+12
1/3/22	999.75	17	4.645		5388.64	431.09	80829.62	5.75E+12	3.06E+12
2/20/22	994.91	18	4.918		5362.54	429.00	80438.10	5.72E+12	3.04E+12
5/27/22	984.95	19	5.191		5308.87	424.71	79633.06	5.66E+12	3.01E+12
3/25/22	949.91	20	5.464		5120.00	409.60	76800.02	5.46E+12	2.91E+12
5/8/22	897.07	21	5.738		4835.23	386.82	72528.46	5.16E+12	2.74E+12
2/24/22	833.69	22	6.011		4493.56	359.49	67403.47	4.79E+12	2.55E+12
5/5/22	796.58	23	6.284		4293.55	343.48	64403.27	4.58E+12	2.44E+12
1/1/22	793.15	24	6.557		4275.07	342.01	64126.12	4.56E+12	2.43E+12
3/10/22	762.30	25	6.831		4108.79	328.70	61631.81	4.38E+12	2.33E+12
5/2/22	706.59	26	7.104		3808.50	304.68	57127.54	4.06E+12	2.16E+12
3/26/22	668.66	27	7.377		3604.06	288.32	54060.91	3.84E+12	2.04E+12
5/3/22	665.09	28	7.650		3584.85	286.79	53772.77	3.82E+12	2.03E+12
2/12/22	624.99	29	7.923		3368.71	269.50	50530.61	3.59E+12	1.91E+12
5/28/22	620.92	30	8.197		3346.77	267.74	50201.55	3.57E+12	1.90E+12
1/4/22	606.08	31	8.470		3266.79	261.34	49001.91	3.48E+12	1.85E+12
2/25/22	560.47	32	8.743		3020.94	241.68	45314.12	3.22E+12	1.71E+12
5/9/22	545.10	33	9.016		2938.09	235.05	44071.37	3.13E+12	1.67E+12
6/12/22	532.30	34	9.290		2869.11	229.53	43036.69	3.06E+12	1.63E+12
3/11/22	525.22	35	9.563		2830.96	226.48	42464.36	3.02E+12	1.61E+12
6/14/22	508.14	36	9.836		2738.90	219.11	41083.48	2.92E+12	1.55E+12
3/2/22	507.41	37	10.109		2734.94	218.80	41024.09	2.92E+12	1.55E+12
3/1/22	506.34	38	10.383		2729.16	218.33	40937.43	2.91E+12	1.55E+12
3/27/22	505.80	39	10.656		2726.26	218.10	40893.87	2.91E+12	1.55E+12
5/1/22	476.02	40	10.929		2565.75	205.26	38486.23	2.74E+12	1.46E+12
2/13/22	468.40	41	11.202		2524.66	201.97	37869.91	2.69E+12	1.43E+12
4/15/22	466.47	42	11.475		2514.28	201.14	37714.18	2.68E+12	1.43E+12
1/5/22	464.52	43	11.749		2503.78	200.30	37556.69	2.67E+12	1.42E+12
4/14/22	440.77	44	12.022		2375.76	190.06	35636.47	2.53E+12	1.35E+12
5/16/22	440.77	45	12.295		2375.74	190.06	35636.03	2.53E+12	1.35E+12
2/28/22	433.63	46	12.568		2337.26	186.98	35058.87	2.49E+12	1.33E+12
2/3/22	431.46	47	12.842		2325.56	186.04	34883.34	2.48E+12	1.32E+12
6/13/22	428.90	48	13.115		2311.77	184.94	34676.58	2.47E+12	1.31E+12
3/22/22	422.01	49	13.388		2274.61	181.97	34119.21	2.43E+12	1.29E+12
3/20/22	420.50	50	13.661		2266.52	181.32	33997.80	2.42E+12	1.29E+12
3/3/22	413.67	51	13.934		2229.66	178.37	33444.83	2.38E+12	1.27E+12
3/28/22	384.77	52	14.208		2073.93	165.91	31108.89	2.21E+12	1.18E+12
3/12/22	383.40	53	14.481		2066.54	165.32	30998.03	2.20E+12	1.17E+12
2/26/22	381.94	54	14.754		2058.65	164.69	30879.69	2.20E+12	1.17E+12
5/10/22	372.78	55	15.027		2009.29	160.74	30139.32	2.14E+12	1.14E+12
5/29/22	365.82	56	15.301		1971.78	157.74	29576.67	2.10E+12	1.12E+12
4/7/22	363.16	57	15.574		1957.41	156.59	29361.11	2.09E+12	1.11E+12
2/27/22	362.42	58	15.847		1953.45	156.28	29301.73	2.08E+12	1.11E+12
3/21/22	353.83	59	16.120		1907.17	152.57	28607.54	2.03E+12	1.08E+12
3/31/22	346.30	60	16.393		1866.55	149.32	27998.26	1.99E+12	1.06E+12
6/15/22	341.90	61	16.667		1842.85	147.43	27642.81	1.97E+12	1.05E+12

date	S6 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
1/6/22	337.91	62	16.940		1821.36	145.71	27320.36	1.94E+12	1.03E+12
4/8/22	333.30	63	17.213		1796.49	143.72	26947.31	1.92E+12	1.02E+12
4/26/22	326.76	64	17.486		1761.24	140.90	26418.54	1.88E+12	9.99E+11
3/19/22	316.54	65	17.760		1706.16	136.49	25592.38	1.82E+12	9.68E+11
3/29/22	316.13	66	18.033		1703.93	136.31	25558.95	1.82E+12	9.67E+11
3/4/22	314.51	67	18.306		1695.22	135.62	25428.29	1.81E+12	9.62E+11
4/16/22	311.45	68	18.579		1678.74	134.30	25181.06	1.79E+12	9.52E+11
4/25/22	308.06	69	18.852		1660.44	132.83	24906.56	1.77E+12	9.42E+11
4/1/22	303.08	70	19.126		1633.60	130.69	24504.04	1.74E+12	9.27E+11
3/30/22	295.43	71	19.399		1592.37	127.39	23885.52	1.70E+12	9.03E+11
5/17/22	290.89	72	19.672		1567.91	125.43	23518.63	1.67E+12	8.90E+11
3/13/22	289.95	73	19.945		1562.81	125.02	23442.09	1.67E+12	8.87E+11
5/11/22	288.60	74	20.219		1555.53	124.44	23332.99	1.66E+12	8.83E+11
1/10/22	287.29	75	20.492		1548.49	123.88	23227.41	1.65E+12	8.79E+11
2/2/22	282.19	76	20.765		1520.98	121.68	22814.69	1.62E+12	8.63E+11
4/9/22	279.13	77	21.038		1504.50	120.36	22567.54	1.60E+12	8.54E+11
3/5/22	275.67	78	21.311		1485.85	118.87	22287.75	1.58E+12	8.43E+11
1/9/22	268.49	79	21.585		1447.14	115.77	21707.07	1.54E+12	8.21E+11
2/14/22	267.04	80	21.858		1439.36	115.15	21590.47	1.54E+12	8.17E+11
5/30/22	264.86	81	22.131		1427.58	114.21	21413.65	1.52E+12	8.10E+11
3/6/22	264.52	82	22.404		1425.76	114.06	21386.37	1.52E+12	8.09E+11
5/26/22	261.56	83	22.678		1409.80	112.78	21147.06	1.50E+12	8.00E+11
1/7/22	260.25	84	22.951		1402.74	112.22	21041.11	1.50E+12	7.96E+11
5/15/22	260.01	85	23.224		1401.47	112.12	21022.12	1.49E+12	7.95E+11
4/2/22	253.95	86	23.497		1368.80	109.50	20532.06	1.46E+12	7.77E+11
4/10/22	248.58	87	23.770		1339.86	107.19	20097.87	1.43E+12	7.60E+11
3/14/22	245.36	88	24.044		1322.47	105.80	19837.00	1.41E+12	7.50E+11
5/12/22	244.30	89	24.317		1316.78	105.34	19751.65	1.40E+12	7.47E+11
2/4/22	242.67	90	24.590		1307.97	104.64	19619.50	1.40E+12	7.42E+11
4/3/22	238.07	91	24.863		1283.20	102.66	19247.95	1.37E+12	7.28E+11
4/17/22	237.57	92	25.137		1280.50	102.44	19207.48	1.37E+12	7.27E+11
4/27/22	233.45	93	25.410		1258.27	100.66	18874.03	1.34E+12	7.14E+11
4/11/22	231.98	94	25.683		1250.35	100.03	18755.25	1.33E+12	7.09E+11
4/6/22	224.20	95	25.956		1208.44	96.68	18126.62	1.29E+12	6.86E+11
5/18/22	222.43	96	26.230		1198.91	95.91	17983.64	1.28E+12	6.80E+11
5/20/22	220.32	97	26.503		1187.50	95.00	17812.52	1.27E+12	6.74E+11
4/4/22	217.84	98	26.776		1174.16	93.93	17612.36	1.25E+12	6.66E+11
5/13/22	216.50	99	27.049		1166.91	93.35	17503.70	1.24E+12	6.62E+11
3/15/22	216.24	100	27.322		1165.53	93.24	17483.02	1.24E+12	6.61E+11
6/16/22	211.59	101	27.596		1140.49	91.24	17107.34	1.22E+12	6.47E+11
5/31/22	210.80	102	27.869		1136.24	90.90	17043.55	1.21E+12	6.45E+11
4/18/22	210.76	103	28.142		1136.00	90.88	17040.03	1.21E+12	6.45E+11
5/19/22	210.39	104	28.415		1134.01	90.72	17010.12	1.21E+12	6.43E+11
4/12/22	209.58	105	28.689		1129.64	90.37	16944.57	1.20E+12	6.41E+11
4/5/22	208.19	106	28.962		1122.13	89.77	16831.95	1.20E+12	6.37E+11
5/21/22	206.32	107	29.235		1112.04	88.96	16680.62	1.19E+12	6.31E+11
5/14/22	205.93	108	29.508		1109.99	88.80	16649.83	1.18E+12	6.30E+11
4/13/22	204.96	109	29.781		1104.74	88.38	16571.08	1.18E+12	6.27E+11
1/12/22	202.04	110	30.055		1089.01	87.12	16335.20	1.16E+12	6.18E+11
3/16/22	199.86	111	30.328		1077.23	86.18	16158.45	1.15E+12	6.11E+11
1/8/22	199.01	112	30.601		1072.68	85.81	16090.26	1.14E+12	6.09E+11
4/19/22	196.48	113	30.874		1059.02	84.72	15885.26	1.13E+12	6.01E+11
1/13/22	194.46	114	31.148		1048.14	83.85	15722.05	1.12E+12	5.95E+11
3/17/22	190.97	115	31.421		1029.31	82.34	15439.63	1.10E+12	5.84E+11
4/28/22	190.78	116	31.694		1028.31	82.26	15424.67	1.10E+12	5.83E+11
1/11/22	189.61	117	31.967		1022.01	81.76	15330.09	1.09E+12	5.80E+11
3/18/22	186.96	118	32.240		1007.69	80.62	15115.41	1.07E+12	5.72E+11
6/1/22	180.00	119	32.514		970.21	77.62	14553.20	1.03E+12	5.50E+11
1/14/22	176.36	120	32.787		950.56	76.05	14258.46	1.01E+12	5.39E+11
4/20/22	174.28	121	33.060		939.36	75.15	14090.41	1.00E+12	5.33E+11
2/5/22	172.90	122	33.333		931.91	74.55	13978.68	9.94E+11	5.29E+11



date	S6 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
4/29/22	170.65	123	33.607		919.83	73.59	13797.43	9.81E+11	5.22E+11
2/11/22	167.23	124	33.880		901.35	72.11	13520.29	9.61E+11	5.11E+11
4/21/22	166.31	125	34.153		896.40	71.71	13445.94	9.56E+11	5.09E+11
5/22/22	165.82	126	34.426		893.76	71.50	13406.35	9.53E+11	5.07E+11
6/2/22	164.30	127	34.699		885.57	70.85	13283.61	9.45E+11	5.02E+11
6/17/22	159.70	128	34.973		860.76	68.86	12911.45	9.18E+11	4.88E+11
4/30/22	159.54	129	35.246		859.91	68.79	12898.69	9.17E+11	4.88E+11
1/15/22	158.42	130	35.519		853.90	68.31	12808.51	9.11E+11	4.84E+11
4/22/22	157.19	131	35.792		847.24	67.78	12708.65	9.04E+11	4.81E+11
2/15/22	150.17	132	36.066		809.44	64.76	12141.60	8.63E+11	4.59E+11
6/3/22	149.17	133	36.339		804.04	64.32	12060.66	8.58E+11	4.56E+11
4/24/22	148.47	134	36.612		800.26	64.02	12003.91	8.54E+11	4.54E+11
4/23/22	147.50	135	36.885		795.01	63.60	11925.16	8.48E+11	4.51E+11
2/6/22	146.78	136	37.158		791.14	63.29	11867.09	8.44E+11	4.49E+11
5/23/22	145.11	137	37.432		782.14	62.57	11732.04	8.34E+11	4.44E+11
1/16/22	143.66	138	37.705		774.31	61.94	11614.58	8.26E+11	4.39E+11
5/24/22	135.55	139	37.978		730.61	58.45	10959.11	7.79E+11	4.15E+11
6/4/22	135.03	140	38.251		727.79	58.22	10916.88	7.76E+11	4.13E+11
5/25/22	134.75	141	38.525		726.30	58.10	10894.45	7.75E+11	4.12E+11
2/10/22	132.90	142	38.798		716.33	57.31	10744.88	7.64E+11	4.06E+11
6/18/22	132.53	143	39.071		714.33	57.15	10714.96	7.62E+11	4.05E+11
1/17/22	132.41	144	39.344		713.71	57.10	10705.72	7.61E+11	4.05E+11
2/9/22	130.10	145	39.617		701.25	56.10	10518.73	7.48E+11	3.98E+11
6/7/22	129.57	146	39.891		698.41	55.87	10476.09	7.45E+11	3.96E+11
1/18/22	127.45	147	40.164		686.97	54.96	10304.52	7.33E+11	3.90E+11
2/7/22	125.89	148	40.437		678.52	54.28	10177.83	7.24E+11	3.85E+11
6/5/22	125.46	149	40.710		676.23	54.10	10143.51	7.21E+11	3.84E+11
6/6/22	124.40	150	40.984		670.52	53.64	10057.73	7.15E+11	3.80E+11
6/8/22	123.63	151	41.257		666.38	53.31	9995.70	7.11E+11	3.78E+11
2/8/22	120.14	152	41.530		647.55	51.80	9713.28	6.91E+11	3.67E+11
1/19/22	116.74	153	41.803		629.25	50.34	9438.77	6.71E+11	3.57E+11
6/19/22	115.17	154	42.077		620.75	49.66	9311.20	6.62E+11	3.52E+11
6/9/22	114.17	155	42.350		615.38	49.23	9230.69	6.56E+11	3.49E+11
6/11/22	112.33	156	42.623		605.47	48.44	9082.00	6.46E+11	3.44E+11
6/10/22	107.19	157	42.896		577.75	46.22	8666.29	6.16E+11	3.28E+11
6/20/22	104.46	158	43.169		563.03	45.04	8445.45	6.01E+11	3.19E+11
1/20/22	100.55	159	43.443		541.97	43.36	8129.59	5.78E+11	3.08E+11
8/30/22	99.67	160	43.716		537.22	42.98	8058.33	5.73E+11	3.05E+11
12/31/22	99.00	161	43.989		533.61	42.69	8004.22	5.69E+11	3.03E+11
8/31/22	97.85	162	44.262		527.40	42.19	7910.96	5.63E+11	2.99E+11
6/21/22	96.83	163	44.536		521.91	41.75	7828.69	5.57E+11	2.96E+11
6/22/22	92.94	164	44.809		500.94	40.08	7514.15	5.34E+11	2.84E+11
1/21/22	90.37	165	45.082		487.07	38.97	7306.08	5.20E+11	2.76E+11
1/28/22	89.32	166	45.355		481.44	38.52	7221.61	5.14E+11	2.73E+11
2/1/22	89.06	167	45.628		480.03	38.40	7200.50	5.12E+11	2.72E+11
1/23/22	88.80	168	45.902		478.63	38.29	7179.38	5.11E+11	2.72E+11
6/23/22	88.80	169	46.175		478.63	38.29	7179.38	5.11E+11	2.72E+11
6/26/22	88.47	170	46.448		476.84	38.15	7152.55	5.09E+11	2.71E+11
1/24/22	88.02	171	46.721		474.40	37.95	7116.03	5.06E+11	2.69E+11
1/27/22	87.23	172	46.995		470.18	37.61	7052.69	5.02E+11	2.67E+11
6/27/22	86.40	173	47.268		465.72	37.26	6985.82	4.97E+11	2.64E+11
1/30/22	85.66	174	47.541		461.73	36.94	6925.99	4.93E+11	2.62E+11
1/31/22	85.66	175	47.814		461.73	36.94	6925.99	4.93E+11	2.62E+11
6/24/22	84.23	176	48.087		453.99	36.32	6809.85	4.84E+11	2.58E+11
1/26/22	84.10	177	48.361		453.29	36.26	6799.30	4.84E+11	2.57E+11
1/29/22	84.10	178	48.634		453.29	36.26	6799.30	4.84E+11	2.57E+11
1/22/22	83.58	179	48.907		450.47	36.04	6757.06	4.81E+11	2.56E+11
1/25/22	83.58	180	49.180		450.47	36.04	6757.06	4.81E+11	2.56E+11
6/25/22	79.19	181	49.454		426.83	34.15	6402.49	4.55E+11	2.42E+11
6/28/22	75.11	182	49.727		404.87	32.39	6073.00	4.32E+11	2.30E+11
8/4/22	66.17	183	50.000		356.64	28.53	5349.56	3.80E+11	2.02E+11

date	S6 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/29/22	65.15	184	50.273		351.17	28.09	5267.52	3.75E+11	1.99E+11
6/30/22	58.99	185	50.546		317.97	25.44	4769.54	3.39E+11	1.80E+11
9/12/22	58.61	186	50.820		315.92	25.27	4738.79	3.37E+11	1.79E+11
8/10/22	53.61	187	51.093		288.95	23.12	4334.24	3.08E+11	1.64E+11
7/1/22	53.24	188	51.366		286.95	22.96	4304.20	3.06E+11	1.63E+11
7/2/22	52.75	189	51.639		284.35	22.75	4265.18	3.03E+11	1.61E+11
12/16/22	50.32	190	51.913		271.22	21.70	4068.32	2.89E+11	1.54E+11
7/3/22	49.30	191	52.186		265.70	21.26	3985.57	2.83E+11	1.51E+11
7/9/22	45.75	192	52.459		246.60	19.73	3699.05	2.63E+11	1.40E+11
7/4/22	45.39	193	52.732		244.64	19.57	3669.53	2.61E+11	1.39E+11
7/10/22	45.22	194	53.005		243.71	19.50	3655.68	2.60E+11	1.38E+11
9/1/22	44.29	195	53.279		238.74	19.10	3581.07	2.55E+11	1.35E+11
11/28/22	43.56	196	53.552		234.78	18.78	3521.77	2.50E+11	1.33E+11
7/26/22	43.36	197	53.825		233.73	18.70	3505.97	2.49E+11	1.33E+11
12/30/22	43.29	198	54.098		233.36	18.67	3500.34	2.49E+11	1.32E+11
8/5/22	42.50	199	54.372		229.08	18.33	3436.25	2.44E+11	1.30E+11
7/5/22	42.22	200	54.645		227.58	18.21	3413.68	2.43E+11	1.29E+11
7/8/22	41.45	201	54.918		223.41	17.87	3351.13	2.38E+11	1.27E+11
10/27/22	41.43	202	55.191		223.33	17.87	3349.89	2.38E+11	1.27E+11
9/13/22	40.82	203	55.464		220.01	17.60	3300.14	2.35E+11	1.25E+11
8/11/22	40.29	204	55.738		217.15	17.37	3257.25	2.32E+11	1.23E+11
7/19/22	40.21	205	56.011		216.72	17.34	3250.83	2.31E+11	1.23E+11
12/17/22	39.22	206	56.284		211.39	16.91	3170.85	2.25E+11	1.20E+11
11/29/22	38.30	207	56.557		206.44	16.51	3096.55	2.20E+11	1.17E+11
7/11/22	38.08	208	56.831		205.23	16.42	3078.47	2.19E+11	1.16E+11
7/6/22	37.62	209	57.104		202.76	16.22	3041.38	2.16E+11	1.15E+11
7/7/22	36.60	210	57.377		197.28	15.78	2959.21	2.10E+11	1.12E+11
7/27/22	36.35	211	57.650		195.93	15.67	2938.93	2.09E+11	1.11E+11
8/9/22	35.01	212	57.923		188.72	15.10	2830.75	2.01E+11	1.07E+11
7/18/22	34.52	213	58.197		186.08	14.89	2791.20	1.98E+11	1.06E+11
7/12/22	34.07	214	58.470		183.64	14.69	2754.65	1.96E+11	1.04E+11
7/20/22	33.93	215	58.743		182.90	14.63	2743.52	1.95E+11	1.04E+11
8/6/22	33.29	216	59.016		179.45	14.36	2691.70	1.91E+11	1.02E+11
7/25/22	31.88	217	59.290		171.86	13.75	2577.85	1.83E+11	9.75E+10
8/12/22	31.77	218	59.563		171.22	13.70	2568.26	1.83E+11	9.71E+10
7/17/22	31.55	219	59.836		170.04	13.60	2550.53	1.81E+11	9.65E+10
8/14/22	31.06	220	60.109		167.39	13.39	2510.85	1.79E+11	9.50E+10
7/28/22	30.62	221	60.383		165.05	13.20	2475.70	1.76E+11	9.36E+10
8/3/22	30.09	222	60.656		162.19	12.98	2432.85	1.73E+11	9.20E+10
11/30/22	29.90	223	60.929		161.18	12.89	2417.67	1.72E+11	9.15E+10
8/2/22	29.79	224	61.202		160.54	12.84	2408.13	1.71E+11	9.11E+10
12/18/22	29.64	225	61.475		159.76	12.78	2396.38	1.70E+11	9.06E+10
7/13/22	28.93	226	61.749		155.92	12.47	2338.84	1.66E+11	8.85E+10
12/15/22	28.59	227	62.022		154.09	12.33	2311.30	1.64E+11	8.74E+10
7/29/22	28.51	228	62.295		153.68	12.29	2305.23	1.64E+11	8.72E+10
9/14/22	28.36	229	62.568		152.86	12.23	2292.91	1.63E+11	8.67E+10
7/14/22	28.03	230	62.842		151.08	12.09	2266.17	1.61E+11	8.57E+10
7/16/22	27.97	231	63.115		150.78	12.06	2261.72	1.61E+11	8.56E+10
7/21/22	27.59	232	63.388		148.70	11.90	2230.49	1.59E+11	8.44E+10
11/27/22	26.77	233	63.661		144.29	11.54	2164.33	1.54E+11	8.19E+10
9/2/22	26.72	234	63.934		144.00	11.52	2159.93	1.54E+11	8.17E+10
8/13/22	26.70	235	64.208		143.93	11.51	2159.01	1.54E+11	8.17E+10
8/15/22	26.64	236	64.481		143.59	11.49	2153.81	1.53E+11	8.15E+10
7/15/22	26.19	237	64.754		141.15	11.29	2117.30	1.51E+11	8.01E+10
8/7/22	25.75	238	65.027		138.77	11.10	2081.58	1.48E+11	7.87E+10
12/20/22	25.74	239	65.301		138.74	11.10	2081.05	1.48E+11	7.87E+10
7/30/22	25.54	240	65.574		137.67	11.01	2065.00	1.47E+11	7.81E+10
8/29/22	25.41	241	65.847		136.96	10.96	2054.44	1.46E+11	7.77E+10
12/1/22	25.06	242	66.120		135.06	10.80	2025.93	1.44E+11	7.66E+10
8/1/22	24.95	243	66.393		134.47	10.76	2017.00	1.43E+11	7.63E+10
8/16/22	24.59	244	66.667		132.52	10.60	1987.79	1.41E+11	7.52E+10

date	S6 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
10/28/22	24.39	245	66.940		131.47	10.52	1972.04	1.40E+11	7.46E+10
10/26/22	24.25	246	67.213		130.71	10.46	1960.60	1.39E+11	7.42E+10
8/21/22	24.21	247	67.486		130.48	10.44	1957.22	1.39E+11	7.40E+10
7/24/22	24.05	248	67.760		129.65	10.37	1944.81	1.38E+11	7.36E+10
7/22/22	23.96	249	68.033		129.15	10.33	1937.29	1.38E+11	7.33E+10
12/24/22	23.81	250	68.306		128.35	10.27	1925.31	1.37E+11	7.28E+10
8/22/22	23.54	251	68.579		126.89	10.15	1903.42	1.35E+11	7.20E+10
12/29/22	23.48	252	68.852		126.57	10.13	1898.53	1.35E+11	7.18E+10
7/31/22	23.19	253	69.126		124.98	10.00	1874.69	1.33E+11	7.09E+10
7/23/22	22.87	254	69.399		123.27	9.86	1849.04	1.31E+11	6.99E+10
12/23/22	22.79	255	69.672		122.86	9.83	1842.84	1.31E+11	6.97E+10
12/19/22	22.46	256	69.945		121.04	9.68	1815.61	1.29E+11	6.87E+10
12/21/22	22.43	257	70.219		120.89	9.67	1813.32	1.29E+11	6.86E+10
8/8/22	22.38	258	70.492		120.64	9.65	1809.54	1.29E+11	6.84E+10
12/2/22	22.29	259	70.765		120.12	9.61	1801.80	1.28E+11	6.82E+10
8/17/22	22.15	260	71.038		119.37	9.55	1790.62	1.27E+11	6.77E+10
9/15/22	21.76	261	71.311		117.30	9.38	1759.48	1.25E+11	6.66E+10
8/23/22	21.61	262	71.585		116.46	9.32	1746.94	1.24E+11	6.61E+10
8/18/22	21.46	263	71.858		115.69	9.25	1735.28	1.23E+11	6.56E+10
12/22/22	20.75	264	72.131		111.82	8.95	1677.30	1.19E+11	6.34E+10
9/3/22	20.36	265	72.404		109.72	8.78	1645.85	1.17E+11	6.23E+10
8/19/22	20.06	266	72.678		108.10	8.65	1621.56	1.15E+11	6.13E+10
12/3/22	20.05	267	72.951		108.04	8.64	1620.64	1.15E+11	6.13E+10
8/24/22	19.57	268	73.224		105.47	8.44	1582.02	1.13E+11	5.98E+10
10/29/22	19.56	269	73.497		105.43	8.43	1581.49	1.12E+11	5.98E+10
12/14/22	19.12	270	73.770		103.07	8.25	1546.12	1.10E+11	5.85E+10
8/25/22	18.90	271	74.044		101.88	8.15	1528.13	1.09E+11	5.78E+10
12/4/22	18.80	272	74.317		101.35	8.11	1520.25	1.08E+11	5.75E+10
12/9/22	18.68	273	74.590		100.69	8.05	1510.31	1.07E+11	5.71E+10
8/26/22	18.68	274	74.863		100.68	8.05	1510.13	1.07E+11	5.71E+10
8/20/22	18.48	275	75.137		99.61	7.97	1494.08	1.06E+11	5.65E+10
12/10/22	18.43	276	75.410		99.34	7.95	1490.03	1.06E+11	5.64E+10
9/19/22	18.18	277	75.683		97.97	7.84	1469.57	1.05E+11	5.56E+10
12/25/22	18.15	278	75.956		97.85	7.83	1467.81	1.04E+11	5.55E+10
12/5/22	18.15	279	76.230		97.82	7.83	1467.29	1.04E+11	5.55E+10
12/11/22	18.10	280	76.503		97.56	7.80	1463.41	1.04E+11	5.54E+10
9/16/22	18.04	281	76.776		97.22	7.78	1458.31	1.04E+11	5.52E+10
12/28/22	17.99	282	77.049		96.99	7.76	1454.84	1.03E+11	5.50E+10
12/12/22	17.90	283	77.322		96.50	7.72	1447.45	1.03E+11	5.48E+10
12/6/22	17.84	284	77.596		96.17	7.69	1442.61	1.03E+11	5.46E+10
8/28/22	17.82	285	77.869		96.06	7.68	1440.94	1.02E+11	5.45E+10
8/27/22	17.73	286	78.142		95.55	7.64	1433.28	1.02E+11	5.42E+10
12/7/22	17.54	287	78.415		94.54	7.56	1418.15	1.01E+11	5.36E+10
9/4/22	17.48	288	78.689		94.22	7.54	1413.26	1.01E+11	5.35E+10
12/8/22	17.43	289	78.962		93.95	7.52	1409.31	1.00E+11	5.33E+10
9/11/22	17.24	290	79.235		92.91	7.43	1393.69	9.91E+10	5.27E+10
10/30/22	17.12	291	79.508		92.30	7.38	1384.45	9.85E+10	5.24E+10
12/13/22	17.08	292	79.781		92.05	7.36	1380.80	9.82E+10	5.22E+10
11/8/22	16.98	293	80.055		91.52	7.32	1372.79	9.76E+10	5.19E+10
11/7/22	16.98	294	80.328		91.51	7.32	1372.66	9.76E+10	5.19E+10
11/5/22	16.76	295	80.601		90.34	7.23	1355.11	9.64E+10	5.13E+10
11/25/22	16.55	296	80.874		89.18	7.13	1337.69	9.51E+10	5.06E+10
11/17/22	16.40	297	81.148		88.39	7.07	1325.81	9.43E+10	5.01E+10
11/18/22	16.40	298	81.421		88.39	7.07	1325.81	9.43E+10	5.01E+10
11/26/22	16.37	299	81.694		88.21	7.06	1323.17	9.41E+10	5.01E+10
10/31/22	16.34	300	81.967		88.09	7.05	1321.41	9.40E+10	5.00E+10
11/21/22	16.33	301	82.240		88.01	7.04	1320.09	9.39E+10	4.99E+10
11/16/22	16.27	302	82.514		87.71	7.02	1315.69	9.36E+10	4.98E+10
11/22/22	16.18	303	82.787		87.18	6.97	1307.77	9.30E+10	4.95E+10
9/5/22	16.06	304	83.060		86.55	6.92	1298.32	9.23E+10	4.91E+10
11/15/22	16.00	305	83.333		86.22	6.90	1293.26	9.20E+10	4.89E+10



date	S6 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
<b>TOTAL NUMBER O</b>	365								
					1.00	0.08	15.00	2.35E+02	1.25E+02
					5.39	5.39	5.39	2.45E+07	2.45E+07

Date	Flow	NO3_N (mg/L)	TP (mg/L)	TSS (mg/L)	Ecoli (col/100 mL)
2/23/22	1547.61	4.3	0.934	52	218.7
3/23/22	2145.32	5.12	2.38	192	2419.6
4/27/22	233.45	3.67	0.247	2	77.1
5/24/22	135.55	2.88	0.122	6	52.9
6/27/22	86.40	1.84	0.132	5	344.8
7/25/22	36.35	1.14	0.623	11	1986.3
8/22/22	23.54	1.14	0.027	5	478.6
9/28/22	11.77	2.01	1.16	4	238.2
10/24/22	11.01	1.7	0.126	19	56.8
11/16/22	16.27	1.69	0.019	3	54.8
12/21/22	22.43	1.44	0.028	4	34.1
1/25/23					

Date	% Flow Exceed		NO3 Act Load	TP Act Load	TSS Act Load	Ecoli Act Load
	0		0	0	0	0.00E+00
2/23/22	2.732240437		35869.0121	7791.08309	433764.7975	8.28E+12
3/23/22	1.366120219		59203.89334	27520.5598	2220146	1.27E+14
4/27/22	25.40983607		4617.845588	310.792333	2516.537105	4.40E+11
5/24/22	37.97814208		2104.149734	89.1341207	4383.64528	1.75E+11
6/27/22	47.26775956		856.9271045	61.4752053	2328.606262	7.29E+11
7/25/22	59.28961749		223.3584463	122.063432	2155.213078	1.77E+12
8/22/22	68.57923497		144.6595904	3.42614819	634.4718876	2.76E+11
9/28/22	94.53551913		127.5642184	73.6191509	253.8591411	6.86E+10
10/24/22	95.90163934		100.8952247	7.47811665	1127.652511	1.53E+10
11/16/22	82.5136612		148.2346169	1.66654303	263.1383732	2.18E+10
12/21/22	70.21857923		174.0788617	3.38486676	483.5523936	1.87E+10
1/25/23						

Date	Ann Load Proxy Range		NO3 Ann Load	TP Ann Load	TSS Ann Load
		44615	0	0	0
2/23/22		28	1004332.339	218150.3266	12145414.33
3/23/22		35	2072136.267	963219.5927	77705110
4/27/22		27	124681.8309	8391.392978	67946.50184
5/24/22		34	71541.09097	3030.560104	149043.9395
6/27/22		28	23993.95893	1721.305749	65200.97535
7/25/22		28	6254.036497	3417.776085	60345.96619
8/22/22		37	5352.404844	126.7674832	23475.45984
9/28/22		26	3316.669679	1914.097924	6600.33767
10/24/22		23	2320.590167	171.996683	25936.00775
11/16/22		35	5188.211591	58.32900605	9209.84306
12/21/22		35	6092.76016	118.4703364	16924.33378
1/25/23					



Date	Ecoli Ann Load
	0.00E+00
2/23/22	2.32E+14
3/23/22	4.44E+15
4/27/22	1.19E+13
5/24/22	5.96E+12
6/27/22	2.04E+13
7/25/22	4.95E+13
8/22/22	1.02E+13
9/28/22	1.78E+12
10/24/22	3.52E+11
11/16/22	7.64E+11
12/21/22	6.55E+11
1/25/23	

date	S7 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
2/17/22	370.35	1	0.273		1996.19	159.69	29942.78	2.13E+12	1.13E+12
3/7/22	254.15	2	0.546		1369.85	109.59	20547.70	1.46E+12	7.77E+11
2/18/22	179.29	3	0.820		966.40	77.31	14495.96	1.03E+12	5.48E+11
3/23/22	165.85	4	1.093		893.91	71.51	13408.61	9.54E+11	5.07E+11
5/1/22	109.19	5	1.366		588.52	47.08	8827.84	6.28E+11	3.34E+11
3/8/22	99.56	6	1.639		536.65	42.93	8049.68	5.72E+11	3.04E+11
2/22/22	82.08	7	1.913		442.41	35.39	6636.21	4.72E+11	2.51E+11
2/16/22	72.92	8	2.186		393.02	31.44	5895.32	4.19E+11	2.23E+11
3/24/22	70.95	9	2.459		382.44	30.60	5736.62	4.08E+11	2.17E+11
5/6/22	67.76	10	2.732		365.23	29.22	5478.45	3.90E+11	2.07E+11
1/2/22	64.70	11	3.005		348.76	27.90	5231.39	3.72E+11	1.98E+11
2/19/22	61.97	12	3.279		334.00	26.72	5009.97	3.56E+11	1.90E+11
2/23/22	58.80	13	3.552		316.91	25.35	4753.71	3.38E+11	1.80E+11
8/30/22	57.77	14	3.825		311.36	24.91	4670.42	3.32E+11	1.77E+11
2/2/22	57.32	15	4.098		308.93	24.71	4633.96	3.30E+11	1.75E+11
5/7/22	54.71	16	4.372		294.89	23.59	4423.37	3.15E+11	1.67E+11
5/4/22	50.17	17	4.645		270.44	21.64	4056.62	2.88E+11	1.53E+11
3/9/22	49.49	18	4.918		266.74	21.34	4001.06	2.85E+11	1.51E+11
6/12/22	48.74	19	5.191		262.72	21.02	3940.84	2.80E+11	1.49E+11
6/13/22	46.29	20	5.464		249.48	19.96	3742.24	2.66E+11	1.42E+11
5/2/22	40.84	21	5.738		220.15	17.61	3302.20	2.35E+11	1.25E+11
4/14/22	40.30	22	6.011		217.19	17.38	3257.86	2.32E+11	1.23E+11
5/27/22	39.96	23	6.284		215.37	17.23	3230.56	2.30E+11	1.22E+11
5/3/22	39.17	24	6.557		211.10	16.89	3166.54	2.25E+11	1.20E+11
6/14/22	38.64	25	6.831		208.25	16.66	3123.74	2.22E+11	1.18E+11
3/25/22	38.56	26	7.104		207.83	16.63	3117.50	2.22E+11	1.18E+11
2/21/22	37.79	27	7.377		203.67	16.29	3055.12	2.17E+11	1.16E+11
2/20/22	37.05	28	7.650		199.68	15.97	2995.24	2.13E+11	1.13E+11
3/22/22	35.89	29	7.923		193.45	15.48	2901.69	2.06E+11	1.10E+11
2/3/22	33.87	30	8.197		182.54	14.60	2738.05	1.95E+11	1.04E+11
1/1/22	33.35	31	8.470		179.74	14.38	2696.08	1.92E+11	1.02E+11
5/5/22	31.67	32	8.743		170.73	13.66	2560.91	1.82E+11	9.69E+10
3/10/22	31.50	33	9.016		169.81	13.58	2547.17	1.81E+11	9.63E+10
12/31/22	31.22	34	9.290		168.27	13.46	2524.10	1.79E+11	9.55E+10
3/26/22	29.66	35	9.563		159.87	12.79	2398.07	1.71E+11	9.07E+10
4/25/22	29.62	36	9.836		159.63	12.77	2394.49	1.70E+11	9.06E+10
2/24/22	29.48	37	10.109		158.90	12.71	2383.50	1.69E+11	9.02E+10
2/12/22	28.84	38	10.383		155.44	12.44	2331.58	1.66E+11	8.82E+10
1/3/22	28.54	39	10.656		153.82	12.31	2307.28	1.64E+11	8.73E+10
5/26/22	28.03	40	10.929		151.06	12.08	2265.93	1.61E+11	8.57E+10
9/11/22	27.13	41	11.202		146.25	11.70	2193.75	1.56E+11	8.30E+10
5/8/22	25.29	42	11.475		136.32	10.91	2044.75	1.45E+11	7.73E+10
3/11/22	24.97	43	11.749		134.57	10.77	2018.53	1.44E+11	7.64E+10
4/7/22	24.62	44	12.022		132.70	10.62	1990.55	1.42E+11	7.53E+10
4/15/22	24.38	45	12.295		131.41	10.51	1971.19	1.40E+11	7.46E+10
1/9/22	24.37	46	12.568		131.33	10.51	1969.99	1.40E+11	7.45E+10
4/26/22	23.97	47	12.842		129.20	10.34	1938.06	1.38E+11	7.33E+10
3/19/22	23.69	48	13.115		127.67	10.21	1915.08	1.36E+11	7.24E+10
3/27/22	23.18	49	13.388		124.97	10.00	1874.50	1.33E+11	7.09E+10
2/25/22	23.09	50	13.661		124.46	9.96	1866.90	1.33E+11	7.06E+10
3/1/22	22.32	51	13.934		120.31	9.62	1804.61	1.28E+11	6.83E+10
3/20/22	21.65	52	14.208		116.67	9.33	1750.05	1.24E+11	6.62E+10
2/28/22	21.45	53	14.481		115.63	9.25	1734.51	1.23E+11	6.56E+10
2/27/22	20.61	54	14.754		111.09	8.89	1666.36	1.18E+11	6.30E+10
10/26/22	20.47	55	15.027		110.32	8.83	1654.81	1.18E+11	6.26E+10
3/2/22	20.07	56	15.301		108.16	8.65	1622.47	1.15E+11	6.14E+10
4/6/22	20.06	57	15.574		108.12	8.65	1621.82	1.15E+11	6.13E+10
5/28/22	20.05	58	15.847		108.05	8.64	1620.71	1.15E+11	6.13E+10
8/9/22	19.58	59	16.120		105.53	8.44	1582.88	1.13E+11	5.99E+10
3/12/22	19.33	60	16.393		104.17	8.33	1562.53	1.11E+11	5.91E+10

date	S7 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
3/28/22	18.67	61	16.667		100.66	8.05	1509.85	1.07E+11	5.71E+10
4/8/22	18.65	62	16.940		100.53	8.04	1507.90	1.07E+11	5.70E+10
2/26/22	18.53	63	17.213		99.87	7.99	1498.05	1.07E+11	5.67E+10
1/4/22	18.50	64	17.486		99.69	7.98	1495.33	1.06E+11	5.66E+10
12/15/22	17.95	65	17.760		96.74	7.74	1451.05	1.03E+11	5.49E+10
3/31/22	17.78	66	18.033		95.83	7.67	1437.43	1.02E+11	5.44E+10
3/21/22	17.74	67	18.306		95.61	7.65	1434.12	1.02E+11	5.42E+10
4/16/22	17.70	68	18.579		95.42	7.63	1431.31	1.02E+11	5.41E+10
6/15/22	17.18	69	18.852		92.59	7.41	1388.85	9.88E+10	5.25E+10
5/9/22	16.95	70	19.126		91.37	7.31	1370.48	9.75E+10	5.18E+10
4/9/22	16.59	71	19.399		89.41	7.15	1341.08	9.54E+10	5.07E+10
11/27/22	16.46	72	19.672		88.70	7.10	1330.46	9.46E+10	5.03E+10
3/3/22	16.16	73	19.945		87.12	6.97	1306.80	9.29E+10	4.94E+10
3/29/22	16.16	74	20.219		87.12	6.97	1306.77	9.29E+10	4.94E+10
4/13/22	16.06	75	20.492		86.56	6.92	1298.42	9.23E+10	4.91E+10
2/13/22	15.48	76	20.765		83.44	6.68	1251.67	8.90E+10	4.73E+10
4/27/22	15.46	77	21.038		83.35	6.67	1250.32	8.89E+10	4.73E+10
3/13/22	15.46	78	21.311		83.32	6.67	1249.79	8.89E+10	4.73E+10
3/30/22	15.19	79	21.585		81.87	6.55	1228.11	8.73E+10	4.65E+10
7/25/22	14.87	80	21.858		80.18	6.41	1202.63	8.55E+10	4.55E+10
1/5/22	14.73	81	22.131		79.42	6.35	1191.27	8.47E+10	4.51E+10
2/11/22	14.42	82	22.404		77.71	6.22	1165.58	8.29E+10	4.41E+10
3/6/22	14.24	83	22.678		76.77	6.14	1151.56	8.19E+10	4.36E+10
3/14/22	14.22	84	22.951		76.67	6.13	1150.07	8.18E+10	4.35E+10
1/10/22	14.22	85	23.224		76.67	6.13	1149.98	8.18E+10	4.35E+10
4/10/22	14.08	86	23.497		75.87	6.07	1138.06	8.09E+10	4.30E+10
4/1/22	14.03	87	23.770		75.60	6.05	1133.95	8.06E+10	4.29E+10
2/4/22	13.75	88	24.044		74.09	5.93	1111.42	7.90E+10	4.20E+10
4/17/22	13.72	89	24.317		73.97	5.92	1109.52	7.89E+10	4.20E+10
4/18/22	13.45	90	24.590		72.48	5.80	1087.17	7.73E+10	4.11E+10
3/4/22	13.21	91	24.863		71.18	5.69	1067.68	7.59E+10	4.04E+10
3/15/22	13.04	92	25.137		70.28	5.62	1054.22	7.50E+10	3.99E+10
4/11/22	12.98	93	25.410		69.97	5.60	1049.49	7.46E+10	3.97E+10
5/10/22	12.77	94	25.683		68.84	5.51	1032.63	7.34E+10	3.91E+10
5/29/22	12.62	95	25.956		68.00	5.44	1019.97	7.25E+10	3.86E+10
4/19/22	12.61	96	26.230		67.95	5.44	1019.23	7.25E+10	3.86E+10
4/2/22	12.43	97	26.503		66.98	5.36	1004.77	7.15E+10	3.80E+10
3/18/22	12.39	98	26.776		66.76	5.34	1001.35	7.12E+10	3.79E+10
4/28/22	12.37	99	27.049		66.67	5.33	1000.08	7.11E+10	3.78E+10
3/5/22	12.18	100	27.322		65.67	5.25	985.01	7.00E+10	3.73E+10
3/16/22	12.18	101	27.596		65.63	5.25	984.51	7.00E+10	3.72E+10
4/3/22	11.87	102	27.869		63.96	5.12	959.38	6.82E+10	3.63E+10
4/5/22	11.85	103	28.142		63.86	5.11	957.83	6.81E+10	3.62E+10
4/12/22	11.67	104	28.415		62.89	5.03	943.41	6.71E+10	3.57E+10
3/17/22	11.34	105	28.689		61.13	4.89	916.88	6.52E+10	3.47E+10
9/12/22	11.24	106	28.962		60.58	4.85	908.73	6.46E+10	3.44E+10
4/4/22	11.14	107	29.235		60.04	4.80	900.67	6.40E+10	3.41E+10
6/16/22	10.98	108	29.508		59.19	4.74	887.92	6.31E+10	3.36E+10
4/29/22	10.91	109	29.781		58.83	4.71	882.39	6.27E+10	3.34E+10
4/20/22	10.88	110	30.055		58.63	4.69	879.45	6.25E+10	3.33E+10
4/21/22	10.72	111	30.328		57.78	4.62	866.64	6.16E+10	3.28E+10
5/20/22	10.59	112	30.601		57.05	4.56	855.80	6.09E+10	3.24E+10
2/14/22	10.50	113	30.874		56.58	4.53	848.77	6.04E+10	3.21E+10
5/11/22	10.48	114	31.148		56.48	4.52	847.15	6.02E+10	3.20E+10
4/30/22	10.38	115	31.421		55.97	4.48	839.56	5.97E+10	3.18E+10
1/6/22	10.38	116	31.694		55.94	4.48	839.15	5.97E+10	3.17E+10
5/16/22	9.97	117	31.967		53.76	4.30	806.45	5.73E+10	3.05E+10
11/28/22	9.85	118	32.240		53.10	4.25	796.44	5.66E+10	3.01E+10
4/22/22	9.82	119	32.514		52.92	4.23	793.82	5.65E+10	3.00E+10
4/23/22	9.63	120	32.787		51.92	4.15	778.87	5.54E+10	2.95E+10

date	S7 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
12/30/22	9.23	121	33.060		49.77	3.98	746.54	5.31E+10	2.82E+10
5/30/22	9.18	122	33.333		49.46	3.96	741.84	5.28E+10	2.81E+10
4/24/22	9.07	123	33.607		48.90	3.91	733.54	5.22E+10	2.77E+10
5/12/22	9.04	124	33.880		48.72	3.90	730.85	5.20E+10	2.76E+10
1/11/22	8.87	125	34.153		47.83	3.83	717.48	5.10E+10	2.71E+10
8/31/22	8.51	126	34.426		45.85	3.67	687.74	4.89E+10	2.60E+10
12/27/22	8.21	127	34.699		44.24	3.54	663.65	4.72E+10	2.51E+10
5/14/22	8.04	128	34.973		43.36	3.47	650.37	4.62E+10	2.46E+10
6/17/22	8.03	129	35.246		43.26	3.46	648.83	4.61E+10	2.45E+10
5/13/22	7.98	130	35.519		43.04	3.44	645.56	4.59E+10	2.44E+10
5/19/22	7.89	131	35.792		42.51	3.40	637.71	4.53E+10	2.41E+10
5/15/22	7.86	132	36.066		42.36	3.39	635.40	4.52E+10	2.40E+10
12/16/22	7.81	133	36.339		42.08	3.37	631.26	4.49E+10	2.39E+10
2/10/22	7.78	134	36.612		41.95	3.36	629.19	4.47E+10	2.38E+10
8/10/22	7.40	135	36.885		39.87	3.19	598.00	4.25E+10	2.26E+10
1/7/22	7.36	136	37.158		39.66	3.17	594.88	4.23E+10	2.25E+10
5/18/22	7.17	137	37.432		38.66	3.09	579.90	4.12E+10	2.19E+10
1/12/22	7.11	138	37.705		38.31	3.07	574.71	4.09E+10	2.17E+10
5/31/22	7.07	139	37.978		38.10	3.05	571.53	4.06E+10	2.16E+10
12/26/22	7.07	140	38.251		38.09	3.05	571.28	4.06E+10	2.16E+10
5/17/22	7.04	141	38.525		37.97	3.04	569.52	4.05E+10	2.15E+10
2/15/22	6.94	142	38.798		37.41	2.99	561.08	3.99E+10	2.12E+10
5/21/22	6.71	143	39.071		36.16	2.89	542.41	3.86E+10	2.05E+10
1/8/22	6.71	144	39.344		36.14	2.89	542.16	3.86E+10	2.05E+10
2/9/22	6.45	145	39.617		34.78	2.78	521.66	3.71E+10	1.97E+10
5/25/22	6.43	146	39.891		34.67	2.77	520.05	3.70E+10	1.97E+10
6/1/22	6.20	147	40.164		33.43	2.67	501.40	3.57E+10	1.90E+10
1/13/22	6.19	148	40.437		33.38	2.67	500.72	3.56E+10	1.89E+10
2/8/22	6.01	149	40.710		32.40	2.59	486.06	3.46E+10	1.84E+10
12/29/22	5.88	150	40.984		31.71	2.54	475.70	3.38E+10	1.80E+10
12/28/22	5.79	151	41.257		31.18	2.49	467.74	3.33E+10	1.77E+10
5/22/22	5.46	152	41.530		29.45	2.36	441.70	3.14E+10	1.67E+10
2/5/22	5.45	153	41.803		29.35	2.35	440.25	3.13E+10	1.67E+10
8/1/22	5.42	154	42.077		29.22	2.34	438.25	3.12E+10	1.66E+10
6/18/22	5.42	155	42.350		29.19	2.34	437.91	3.11E+10	1.66E+10
6/2/22	5.35	156	42.623		28.81	2.30	432.16	3.07E+10	1.63E+10
8/4/22	5.31	157	42.896		28.61	2.29	429.22	3.05E+10	1.62E+10
1/14/22	5.12	158	43.169		27.61	2.21	414.13	2.94E+10	1.57E+10
7/24/22	5.00	159	43.443		26.98	2.16	404.63	2.88E+10	1.53E+10
6/7/22	4.99	160	43.716		26.88	2.15	403.16	2.87E+10	1.52E+10
10/25/22	4.73	161	43.989		25.49	2.04	382.31	2.72E+10	1.45E+10
10/27/22	4.71	162	44.262		25.37	2.03	380.54	2.71E+10	1.44E+10
12/25/22	4.67	163	44.536		25.17	2.01	377.50	2.68E+10	1.43E+10
11/29/22	4.53	164	44.809		24.41	1.95	366.13	2.60E+10	1.38E+10
5/23/22	4.45	165	45.082		24.00	1.92	360.02	2.56E+10	1.36E+10
7/26/22	4.42	166	45.355		23.80	1.90	357.05	2.54E+10	1.35E+10
9/13/22	4.39	167	45.628		23.66	1.89	354.87	2.52E+10	1.34E+10
2/6/22	4.35	168	45.902		23.45	1.88	351.81	2.50E+10	1.33E+10
12/17/22	4.35	169	46.175		23.45	1.88	351.71	2.50E+10	1.33E+10
2/7/22	4.35	170	46.448		23.42	1.87	351.31	2.50E+10	1.33E+10
12/19/22	4.34	171	46.721		23.41	1.87	351.16	2.50E+10	1.33E+10
6/3/22	4.32	172	46.995		23.27	1.86	349.00	2.48E+10	1.32E+10
1/15/22	4.26	173	47.268		22.96	1.84	344.33	2.45E+10	1.30E+10
6/26/22	4.12	174	47.541		22.19	1.78	332.89	2.37E+10	1.26E+10
6/19/22	3.99	175	47.814		21.51	1.72	322.62	2.29E+10	1.22E+10
11/30/22	3.92	176	48.087		21.11	1.69	316.63	2.25E+10	1.20E+10
12/24/22	3.87	177	48.361		20.84	1.67	312.63	2.22E+10	1.18E+10
1/16/22	3.82	178	48.634		20.59	1.65	308.79	2.20E+10	1.17E+10
6/8/22	3.80	179	48.907		20.48	1.64	307.13	2.18E+10	1.16E+10
5/24/22	3.79	180	49.180		20.45	1.64	306.81	2.18E+10	1.16E+10

date	S7 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/6/22	3.72	181	49.454		20.06	1.60	300.87	2.14E+10	1.14E+10
8/11/22	3.68	182	49.727		19.84	1.59	297.60	2.12E+10	1.13E+10
6/11/22	3.66	183	50.000		19.74	1.58	296.07	2.11E+10	1.12E+10
7/27/22	3.48	184	50.273		18.76	1.50	281.43	2.00E+10	1.06E+10
6/4/22	3.47	185	50.546		18.70	1.50	280.51	1.99E+10	1.06E+10
6/9/22	3.44	186	50.820		18.56	1.49	278.45	1.98E+10	1.05E+10
8/2/22	3.35	187	51.093		18.04	1.44	270.65	1.92E+10	1.02E+10
6/10/22	3.25	188	51.366		17.52	1.40	262.78	1.87E+10	9.94E+09
8/5/22	3.24	189	51.639		17.46	1.40	261.86	1.86E+10	9.91E+09
12/23/22	3.21	190	51.913		17.29	1.38	259.37	1.84E+10	9.81E+09
7/28/22	3.20	191	52.186		17.22	1.38	258.35	1.84E+10	9.77E+09
9/1/22	3.17	192	52.459		17.08	1.37	256.20	1.82E+10	9.69E+09
6/20/22	3.13	193	52.732		16.86	1.35	252.97	1.80E+10	9.57E+09
6/5/22	3.12	194	53.005		16.81	1.34	252.13	1.79E+10	9.54E+09
12/14/22	3.08	195	53.279		16.63	1.33	249.41	1.77E+10	9.43E+09
12/18/22	3.08	196	53.552		16.59	1.33	248.92	1.77E+10	9.42E+09
8/29/22	3.06	197	53.825		16.51	1.32	247.68	1.76E+10	9.37E+09
1/17/22	2.91	198	54.098		15.67	1.25	235.10	1.67E+10	8.89E+09
7/9/22	2.89	199	54.372		15.56	1.24	233.38	1.66E+10	8.83E+09
6/21/22	2.75	200	54.645		14.85	1.19	222.72	1.58E+10	8.42E+09
6/27/22	2.67	201	54.918		14.40	1.15	216.00	1.54E+10	8.17E+09
12/21/22	2.66	202	55.191		14.34	1.15	215.10	1.53E+10	8.14E+09
8/12/22	2.64	203	55.464		14.25	1.14	213.81	1.52E+10	8.09E+09
6/22/22	2.62	204	55.738		14.10	1.13	211.51	1.50E+10	8.00E+09
12/1/22	2.49	205	56.011		13.41	1.07	201.13	1.43E+10	7.61E+09
8/14/22	2.49	206	56.284		13.40	1.07	201.01	1.43E+10	7.60E+09
2/1/22	2.45	207	56.557		13.20	1.06	197.94	1.41E+10	7.49E+09
9/14/22	2.44	208	56.831		13.18	1.05	197.68	1.41E+10	7.48E+09
7/29/22	2.44	209	57.104		13.16	1.05	197.37	1.40E+10	7.47E+09
10/28/22	2.39	210	57.377		12.89	1.03	193.28	1.37E+10	7.31E+09
6/23/22	2.21	211	57.650		11.91	0.95	178.69	1.27E+10	6.76E+09
12/20/22	2.21	212	57.923		11.90	0.95	178.51	1.27E+10	6.75E+09
12/22/22	2.20	213	58.197		11.85	0.95	177.74	1.26E+10	6.72E+09
8/21/22	2.18	214	58.470		11.76	0.94	176.44	1.25E+10	6.67E+09
1/18/22	2.15	215	58.743		11.59	0.93	173.83	1.24E+10	6.58E+09
12/10/22	2.13	216	59.016		11.49	0.92	172.32	1.23E+10	6.52E+09
12/2/22	2.06	217	59.290		11.11	0.89	166.67	1.19E+10	6.30E+09
8/15/22	2.05	218	59.563		11.03	0.88	165.38	1.18E+10	6.26E+09
8/3/22	2.03	219	59.836		10.93	0.87	163.98	1.17E+10	6.20E+09
8/13/22	1.99	220	60.109		10.72	0.86	160.74	1.14E+10	6.08E+09
8/20/22	1.99	221	60.383		10.70	0.86	160.57	1.14E+10	6.07E+09
7/30/22	1.91	222	60.656		10.31	0.83	154.71	1.10E+10	5.85E+09
12/3/22	1.91	223	60.929		10.27	0.82	154.03	1.10E+10	5.83E+09
8/16/22	1.87	224	61.202		10.07	0.81	151.05	1.07E+10	5.71E+09
7/8/22	1.86	225	61.475		10.03	0.80	150.52	1.07E+10	5.69E+09
9/2/22	1.84	226	61.749		9.94	0.79	149.04	1.06E+10	5.64E+09
7/10/22	1.82	227	62.022		9.81	0.78	147.18	1.05E+10	5.57E+09
8/23/22	1.80	228	62.295		9.71	0.78	145.70	1.04E+10	5.51E+09
9/19/22	1.80	229	62.568		9.69	0.78	145.41	1.03E+10	5.50E+09
1/31/22	1.77	230	62.842		9.55	0.76	143.29	1.02E+10	5.42E+09
12/7/22	1.76	231	63.115		9.49	0.76	142.33	1.01E+10	5.38E+09
10/29/22	1.74	232	63.388		9.37	0.75	140.59	1.00E+10	5.32E+09
10/18/22	1.74	233	63.661		9.37	0.75	140.48	9.99E+09	5.31E+09
12/6/22	1.72	234	63.934		9.28	0.74	139.22	9.90E+09	5.27E+09
12/9/22	1.71	235	64.208		9.22	0.74	138.36	9.84E+09	5.23E+09
12/11/22	1.71	236	64.481		9.21	0.74	138.19	9.83E+09	5.23E+09
10/19/22	1.71	237	64.754		9.21	0.74	138.13	9.82E+09	5.22E+09
12/5/22	1.71	238	65.027		9.19	0.74	137.91	9.81E+09	5.22E+09
9/15/22	1.67	239	65.301		9.00	0.72	135.04	9.60E+09	5.11E+09
12/4/22	1.66	240	65.574		8.96	0.72	134.37	9.56E+09	5.08E+09

date	S7 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/24/22	1.65	241	65.847		8.91	0.71	133.66	9.50E+09	5.06E+09
12/8/22	1.64	242	66.120		8.84	0.71	132.58	9.43E+09	5.02E+09
6/28/22	1.64	243	66.393		8.82	0.71	132.29	9.41E+09	5.00E+09
8/22/22	1.62	244	66.667		8.75	0.70	131.29	9.34E+09	4.97E+09
11/13/22	1.60	245	66.940		8.63	0.69	129.48	9.21E+09	4.90E+09
1/19/22	1.60	246	67.213		8.61	0.69	129.16	9.18E+09	4.89E+09
12/12/22	1.59	247	67.486		8.58	0.69	128.74	9.15E+09	4.87E+09
10/31/22	1.54	248	67.760		8.30	0.66	124.47	8.85E+09	4.71E+09
9/24/22	1.53	249	68.033		8.26	0.66	123.97	8.82E+09	4.69E+09
12/13/22	1.52	250	68.306		8.20	0.66	123.04	8.75E+09	4.65E+09
1/30/22	1.52	251	68.579		8.19	0.66	122.84	8.74E+09	4.65E+09
11/4/22	1.52	252	68.852		8.17	0.65	122.52	8.71E+09	4.63E+09
11/6/22	1.48	253	69.126		7.98	0.64	119.74	8.52E+09	4.53E+09
9/3/22	1.48	254	69.399		7.98	0.64	119.71	8.51E+09	4.53E+09
8/19/22	1.48	255	69.672		7.97	0.64	119.52	8.50E+09	4.52E+09
6/25/22	1.48	256	69.945		7.97	0.64	119.48	8.50E+09	4.52E+09
11/5/22	1.48	257	70.219		7.96	0.64	119.35	8.49E+09	4.51E+09
10/13/22	1.47	258	70.492		7.93	0.63	118.96	8.46E+09	4.50E+09
10/30/22	1.46	259	70.765		7.89	0.63	118.40	8.42E+09	4.48E+09
10/15/22	1.45	260	71.038		7.82	0.63	117.32	8.34E+09	4.44E+09
1/29/22	1.45	261	71.311		7.81	0.62	117.10	8.33E+09	4.43E+09
1/20/22	1.43	262	71.585		7.72	0.62	115.82	8.24E+09	4.38E+09
10/14/22	1.43	263	71.858		7.71	0.62	115.61	8.22E+09	4.37E+09
11/16/22	1.43	264	72.131		7.69	0.62	115.39	8.21E+09	4.36E+09
7/1/22	1.42	265	72.404		7.64	0.61	114.65	8.15E+09	4.34E+09
1/28/22	1.41	266	72.678		7.62	0.61	114.24	8.12E+09	4.32E+09
6/29/22	1.40	267	72.951		7.54	0.60	113.13	8.04E+09	4.28E+09
11/1/22	1.39	268	73.224		7.51	0.60	112.68	8.01E+09	4.26E+09
1/24/22	1.38	269	73.497		7.45	0.60	111.77	7.95E+09	4.23E+09
1/25/22	1.38	270	73.770		7.45	0.60	111.77	7.95E+09	4.23E+09
1/26/22	1.38	271	74.044		7.45	0.60	111.77	7.95E+09	4.23E+09
1/27/22	1.38	272	74.317		7.45	0.60	111.77	7.95E+09	4.23E+09
1/21/22	1.35	273	74.590		7.27	0.58	109.10	7.76E+09	4.13E+09
1/23/22	1.34	274	74.863		7.20	0.58	108.01	7.68E+09	4.09E+09
11/19/22	1.33	275	75.137		7.19	0.58	107.90	7.67E+09	4.08E+09
9/16/22	1.33	276	75.410		7.17	0.57	107.51	7.65E+09	4.07E+09
11/14/22	1.33	277	75.683		7.16	0.57	107.42	7.64E+09	4.06E+09
10/16/22	1.33	278	75.956		7.16	0.57	107.36	7.63E+09	4.06E+09
11/15/22	1.33	279	76.230		7.15	0.57	107.26	7.63E+09	4.06E+09
1/22/22	1.32	280	76.503		7.11	0.57	106.63	7.58E+09	4.03E+09
11/17/22	1.31	281	76.776		7.07	0.57	105.99	7.54E+09	4.01E+09
7/11/22	1.30	282	77.049		7.02	0.56	105.31	7.49E+09	3.98E+09
11/18/22	1.29	283	77.322		6.98	0.56	104.63	7.44E+09	3.96E+09
11/2/22	1.29	284	77.596		6.96	0.56	104.42	7.43E+09	3.95E+09
9/20/22	1.29	285	77.869		6.96	0.56	104.40	7.42E+09	3.95E+09
11/12/22	1.28	286	78.142		6.92	0.55	103.77	7.38E+09	3.93E+09
8/17/22	1.26	287	78.415		6.79	0.54	101.82	7.24E+09	3.85E+09
11/10/22	1.25	288	78.689		6.72	0.54	100.76	7.17E+09	3.81E+09
10/17/22	1.24	289	78.962		6.70	0.54	100.47	7.14E+09	3.80E+09
11/3/22	1.24	290	79.235		6.69	0.54	100.33	7.13E+09	3.80E+09
6/30/22	1.22	291	79.508		6.59	0.53	98.83	7.03E+09	3.74E+09
8/24/22	1.21	292	79.781		6.51	0.52	97.61	6.94E+09	3.69E+09
11/20/22	1.19	293	80.055		6.41	0.51	96.16	6.84E+09	3.64E+09
11/23/22	1.19	294	80.328		6.41	0.51	96.15	6.84E+09	3.64E+09
11/7/22	1.19	295	80.601		6.40	0.51	95.93	6.82E+09	3.63E+09
11/24/22	1.18	296	80.874		6.36	0.51	95.35	6.78E+09	3.61E+09
11/25/22	1.16	297	81.148		6.25	0.50	93.75	6.67E+09	3.55E+09
11/11/22	1.15	298	81.421		6.22	0.50	93.30	6.63E+09	3.53E+09
9/25/22	1.15	299	81.694		6.19	0.50	92.91	6.61E+09	3.51E+09
11/22/22	1.15	300	81.967		6.18	0.49	92.66	6.59E+09	3.50E+09

date	S7 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
11/8/22	1.14	301	82.240		6.15	0.49	92.32	6.56E+09	3.49E+09
10/12/22	1.14	302	82.514		6.13	0.49	91.93	6.54E+09	3.48E+09
8/6/22	1.13	303	82.787		6.11	0.49	91.60	6.51E+09	3.46E+09
11/21/22	1.12	304	83.060		6.03	0.48	90.38	6.43E+09	3.42E+09
9/22/22	1.11	305	83.333		6.01	0.48	90.14	6.41E+09	3.41E+09
8/27/22	1.06	306	83.607		5.72	0.46	85.87	6.11E+09	3.25E+09
11/26/22	1.05	307	83.880		5.65	0.45	84.78	6.03E+09	3.21E+09
9/23/22	1.04	308	84.153		5.63	0.45	84.46	6.01E+09	3.19E+09
9/17/22	1.03	309	84.426		5.55	0.44	83.18	5.91E+09	3.15E+09
8/8/22	1.03	310	84.699		5.54	0.44	83.13	5.91E+09	3.14E+09
8/7/22	1.02	311	84.973		5.48	0.44	82.20	5.85E+09	3.11E+09
10/20/22	1.00	312	85.246		5.38	0.43	80.68	5.74E+09	3.05E+09
9/4/22	1.00	313	85.519		5.37	0.43	80.48	5.72E+09	3.04E+09
7/18/22	0.99	314	85.792		5.34	0.43	80.05	5.69E+09	3.03E+09
9/21/22	0.98	315	86.066		5.27	0.42	79.08	5.62E+09	2.99E+09
7/2/22	0.96	316	86.339		5.16	0.41	77.36	5.50E+09	2.93E+09
9/26/22	0.94	317	86.612		5.07	0.41	76.06	5.41E+09	2.88E+09
7/19/22	0.94	318	86.885		5.06	0.40	75.91	5.40E+09	2.87E+09
9/18/22	0.93	319	87.158		5.01	0.40	75.10	5.34E+09	2.84E+09
9/5/22	0.92	320	87.432		4.96	0.40	74.40	5.29E+09	2.81E+09
9/27/22	0.87	321	87.705		4.71	0.38	70.58	5.02E+09	2.67E+09
10/24/22	0.85	322	87.978		4.56	0.36	68.43	4.87E+09	2.59E+09
7/12/22	0.80	323	88.251		4.32	0.35	64.83	4.61E+09	2.45E+09
7/3/22	0.78	324	88.525		4.18	0.33	62.73	4.46E+09	2.37E+09
7/31/22	0.76	325	88.798		4.07	0.33	61.09	4.34E+09	2.31E+09
9/6/22	0.74	326	89.071		3.99	0.32	59.92	4.26E+09	2.27E+09
10/4/22	0.73	327	89.344		3.95	0.32	59.29	4.22E+09	2.24E+09
8/18/22	0.72	328	89.617		3.86	0.31	57.85	4.11E+09	2.19E+09
9/29/22	0.64	329	89.891		3.43	0.27	51.50	3.66E+09	1.95E+09
10/10/22	0.62	330	90.164		3.36	0.27	50.37	3.58E+09	1.91E+09
7/4/22	0.60	331	90.437		3.21	0.26	48.15	3.42E+09	1.82E+09
10/9/22	0.59	332	90.710		3.18	0.25	47.77	3.40E+09	1.81E+09
8/25/22	0.58	333	90.984		3.14	0.25	47.09	3.35E+09	1.78E+09
9/7/22	0.56	334	91.257		3.03	0.24	45.43	3.23E+09	1.72E+09
10/11/22	0.49	335	91.530		2.64	0.21	39.58	2.81E+09	1.50E+09
11/9/22	0.49	336	91.803		2.62	0.21	39.33	2.80E+09	1.49E+09
10/5/22	0.43	337	92.077		2.30	0.18	34.51	2.45E+09	1.31E+09
9/28/22	0.39	338	92.350		2.12	0.17	31.75	2.26E+09	1.20E+09
10/23/22	0.38	339	92.623		2.04	0.16	30.56	2.17E+09	1.16E+09
10/1/22	0.35	340	92.896		1.87	0.15	28.08	2.00E+09	1.06E+09
10/8/22	0.32	341	93.169		1.75	0.14	26.18	1.86E+09	9.90E+08
7/17/22	0.31	342	93.443		1.65	0.13	24.82	1.77E+09	9.39E+08
10/21/22	0.31	343	93.716		1.65	0.13	24.82	1.76E+09	9.39E+08
7/6/22	0.30	344	93.989		1.60	0.13	23.93	1.70E+09	9.05E+08
7/7/22	0.30	345	94.262		1.59	0.13	23.87	1.70E+09	9.03E+08
8/28/22	0.24	346	94.536		1.28	0.10	19.13	1.36E+09	7.24E+08
9/8/22	0.23	347	94.809		1.22	0.10	18.26	1.30E+09	6.91E+08
10/3/22	0.21	348	95.082		1.11	0.09	16.71	1.19E+09	6.32E+08
9/30/22	0.20	349	95.355		1.09	0.09	16.30	1.16E+09	6.16E+08
9/10/22	0.19	350	95.628		1.03	0.08	15.49	1.10E+09	5.86E+08
7/22/22	0.18	351	95.902		0.95	0.08	14.28	1.02E+09	5.40E+08
7/21/22	0.17	352	96.175		0.93	0.07	13.97	9.94E+08	5.29E+08
7/14/22	0.17	353	96.448		0.92	0.07	13.78	9.80E+08	5.21E+08
10/7/22	0.17	354	96.721		0.91	0.07	13.69	9.74E+08	5.18E+08
7/23/22	0.17	355	96.995		0.90	0.07	13.57	9.65E+08	5.13E+08
8/26/22	0.17	356	97.268		0.90	0.07	13.52	9.62E+08	5.12E+08
7/16/22	0.16	357	97.541		0.85	0.07	12.70	9.03E+08	4.80E+08
10/22/22	0.15	358	97.814		0.81	0.06	12.14	8.63E+08	4.59E+08
7/13/22	0.15	359	98.087		0.81	0.06	12.12	8.62E+08	4.58E+08
10/6/22	0.14	360	98.361		0.77	0.06	11.50	8.18E+08	4.35E+08

date	S7 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
7/5/22	0.13	361	98.634		0.71	0.06	10.61	7.55E+08	4.01E+08
7/20/22	0.12	362	98.907		0.63	0.05	9.43	6.71E+08	3.57E+08
10/2/22	0.10	363	99.180		0.55	0.04	8.21	5.84E+08	3.11E+08
7/15/22	0.10	364	99.454		0.53	0.04	7.96	5.66E+08	3.01E+08
9/9/22	0.05	365	99.727		0.27	0.02	4.00	2.84E+08	1.51E+08
<b>TOTAL NUMBER</b>	365								
					1.00	0.08	15.00	235.00	125.00
					5.39	5.39	5.39	24465758.40	24465758.40



Date	Flow	NO3_N (mg/L)	TP (mg/L)	TSS (mg/L)	Ecoli (col/100 mL)
1/26/22	1.38	4.64	0.047	1	29.3
2/23/22	58.80	5.57	0.517	30	198.6
3/23/22	165.85	4.83	1.64	117	456.9
4/27/22	15.46	6.63	0.165	1	118.7
5/24/22	3.79	4.23	0.223	7	360.9
6/27/22	2.67	1.9	0.45	2	304.4
7/25/22	3.48	1.14	0.32	2	179.3
8/22/22	1.62	0.845	2.15	2	648.8
9/28/22	0.39	0.942	5	3	146.7
10/24/22	0.85	0.296	0.115	3	133.3
11/16/22	1.43	0.611	0.017	3	2419.6
12/21/22	2.66	0.719	0.178	67	920.8
1/25/23					

Date	% Flow Exceed		NO3 Act Load	TP Act Load	TSS Act Load	Ecoli Act Load
1/26/22	74.04371585		34.57349703	0.35020568	7.451184705	9.91E+08
2/23/22	3.551912568		1765.211927	163.844626	9507.425099	2.86E+11
3/23/22	1.092896175		4317.573042	1466.00824	104587.1731	1.85E+12
4/27/22	21.03825137		552.6394351	13.7534701	83.35436426	4.49E+10
5/24/22	49.18032787		86.52002043	4.56122094	143.1773388	3.35E+10
6/27/22	54.91803279		27.35965413	6.47991808	28.79963593	1.99E+10
7/25/22	21.8579235		21.38894321	6.00391388	37.52446178	1.53E+10
8/22/22	66.66666667		7.396076985	18.8184207	17.50550766	2.58E+10
9/28/22	92.34972678		1.993879957	10.5832269	6.34993617	1.41E+09
10/24/22	87.97814208		1.350375701	0.52463921	13.68624021	2.76E+09
11/16/22	72.13114754		4.70035398	0.13077908	23.07866111	8.45E+10
12/21/22	55.19125683		10.31039319	2.55250346	960.7737744	5.99E+10
1/25/23						

Date	Ann Load Proxy Range			NO3 Ann Load	TP Ann Load
1/26/22		28		968.0579169	9.805759072
2/23/22		28		49425.93395	4587.649525
3/23/22		35		151115.0565	51310.28833
4/27/22		27		14921.26475	371.3436928
5/24/22		34		2941.680695	155.0815118
6/27/22		28		766.0703158	181.4377064
7/25/22		28		598.89041	168.1095888
8/22/22		37		273.6548484	696.281567
9/28/22		26		51.84087889	275.1639007
10/24/22		23		31.05864111	12.06670178
11/16/22		35		164.5123893	4.577267788
12/21/22		35		360.8637617	89.33762111
1/25/23					

Date	TSS Ann Load	Ecoli Ann Load
1/26/22	208.6331717	2.77E+10
2/23/22	266207.9028	8.00E+12
3/23/22	3660551.057	6.49E+13
4/27/22	2250.567835	1.21E+12
5/24/22	4868.029518	1.14E+12
6/27/22	806.3898061	5.57E+11
7/25/22	1050.68493	4.28E+11
8/22/22	647.7037833	9.54E+11
9/28/22	165.0983404	3.66E+10
10/24/22	314.7835248	6.35E+10
11/16/22	807.753139	2.96E+12
12/21/22	33627.0821	2.10E+12
1/25/23		

date	S8 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
2/17/22	527.11	1	0.273		2841.13	227.29	42616.93	3.03E+12	1.61E+12
3/7/22	361.72	2	0.546		1949.67	155.97	29245.12	2.08E+12	1.11E+12
2/18/22	255.19	3	0.820		1375.45	110.04	20631.80	1.47E+12	7.80E+11
3/23/22	236.04	4	1.093		1272.28	101.78	19084.20	1.36E+12	7.22E+11
5/1/22	155.40	5	1.366		837.63	67.01	12564.48	8.93E+11	4.75E+11
3/8/22	141.71	6	1.639		763.80	61.10	11456.94	8.15E+11	4.33E+11
2/22/22	116.82	7	1.913		629.68	50.37	9445.18	6.72E+11	3.57E+11
2/16/22	103.78	8	2.186		559.38	44.75	8390.69	5.97E+11	3.17E+11
3/24/22	100.99	9	2.459		544.32	43.55	8164.81	5.81E+11	3.09E+11
5/6/22	96.44	10	2.732		519.82	41.59	7797.36	5.54E+11	2.95E+11
1/2/22	92.09	11	3.005		496.38	39.71	7445.73	5.29E+11	2.82E+11
2/19/22	88.20	12	3.279		475.37	38.03	7130.59	5.07E+11	2.70E+11
2/23/22	83.68	13	3.552		451.06	36.08	6765.86	4.81E+11	2.56E+11
8/30/22	82.22	14	3.825		443.15	35.45	6647.32	4.73E+11	2.51E+11
2/2/22	81.58	15	4.098		439.70	35.18	6595.43	4.69E+11	2.49E+11
5/7/22	77.87	16	4.372		419.71	33.58	6295.69	4.48E+11	2.38E+11
5/4/22	71.41	17	4.645		384.91	30.79	5773.70	4.11E+11	2.18E+11
3/9/22	70.43	18	4.918		379.64	30.37	5694.62	4.05E+11	2.15E+11
6/12/22	69.37	19	5.191		373.93	29.91	5608.91	3.99E+11	2.12E+11
6/13/22	65.88	20	5.464		355.08	28.41	5326.25	3.79E+11	2.01E+11
5/2/22	58.13	21	5.738		313.33	25.07	4699.95	3.34E+11	1.78E+11
4/14/22	57.35	22	6.011		309.12	24.73	4636.84	3.30E+11	1.75E+11
5/27/22	56.87	23	6.284		306.53	24.52	4597.98	3.27E+11	1.74E+11
5/3/22	55.74	24	6.557		300.46	24.04	4506.87	3.20E+11	1.70E+11
6/14/22	54.99	25	6.831		296.40	23.71	4445.95	3.16E+11	1.68E+11
3/25/22	54.88	26	7.104		295.80	23.66	4437.07	3.16E+11	1.68E+11
2/21/22	53.78	27	7.377		289.89	23.19	4348.28	3.09E+11	1.64E+11
2/20/22	52.73	28	7.650		284.20	22.74	4263.06	3.03E+11	1.61E+11
3/22/22	51.08	29	7.923		275.33	22.03	4129.92	2.94E+11	1.56E+11
2/3/22	48.20	30	8.197		259.80	20.78	3897.01	2.77E+11	1.47E+11
1/1/22	47.46	31	8.470		255.82	20.47	3837.28	2.73E+11	1.45E+11
5/5/22	45.08	32	8.743		242.99	19.44	3644.89	2.59E+11	1.38E+11
3/10/22	44.84	33	9.016		241.69	19.34	3625.33	2.58E+11	1.37E+11
12/31/22	44.43	34	9.290		239.50	19.16	3592.50	2.55E+11	1.36E+11
3/26/22	42.22	35	9.563		227.54	18.20	3413.13	2.43E+11	1.29E+11
4/25/22	42.15	36	9.836		227.20	18.18	3408.03	2.42E+11	1.29E+11
2/24/22	41.96	37	10.109		226.16	18.09	3392.38	2.41E+11	1.28E+11
2/12/22	41.05	38	10.383		221.23	17.70	3318.49	2.36E+11	1.26E+11
1/3/22	40.62	39	10.656		218.93	17.51	3283.90	2.34E+11	1.24E+11
5/26/22	39.89	40	10.929		215.00	17.20	3225.05	2.29E+11	1.22E+11
9/11/22	38.62	41	11.202		208.15	16.65	3122.32	2.22E+11	1.18E+11
5/8/22	36.00	42	11.475		194.02	15.52	2910.25	2.07E+11	1.10E+11
3/11/22	35.53	43	11.749		191.53	15.32	2872.94	2.04E+11	1.09E+11
4/7/22	35.04	44	12.022		188.87	15.11	2833.11	2.01E+11	1.07E+11
4/15/22	34.70	45	12.295		187.04	14.96	2805.56	2.00E+11	1.06E+11
1/9/22	34.68	46	12.568		186.92	14.95	2803.84	1.99E+11	1.06E+11
4/26/22	34.12	47	12.842		183.89	14.71	2758.39	1.96E+11	1.04E+11
3/19/22	33.71	48	13.115		181.71	14.54	2725.69	1.94E+11	1.03E+11
3/27/22	33.00	49	13.388		177.86	14.23	2667.94	1.90E+11	1.01E+11
2/25/22	32.86	50	13.661		177.14	14.17	2657.12	1.89E+11	1.01E+11
3/1/22	31.77	51	13.934		171.23	13.70	2568.47	1.83E+11	9.72E+10
3/20/22	30.81	52	14.208		166.05	13.28	2490.80	1.77E+11	9.42E+10
2/28/22	30.53	53	14.481		164.58	13.17	2468.70	1.76E+11	9.34E+10
2/27/22	29.33	54	14.754		158.11	12.65	2371.69	1.69E+11	8.97E+10
10/26/22	29.13	55	15.027		157.02	12.56	2355.26	1.67E+11	8.91E+10
3/2/22	28.56	56	15.301		153.95	12.32	2309.23	1.64E+11	8.73E+10
4/6/22	28.55	57	15.574		153.89	12.31	2308.31	1.64E+11	8.73E+10
5/28/22	28.53	58	15.847		153.78	12.30	2306.73	1.64E+11	8.73E+10
8/9/22	27.86	59	16.120		150.19	12.02	2252.88	1.60E+11	8.52E+10
3/12/22	27.51	60	16.393		148.26	11.86	2223.92	1.58E+11	8.41E+10

date	S8 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
3/28/22	26.58	61	16.667		143.26	11.46	2148.93	1.53E+11	8.13E+10
4/8/22	26.55	62	16.940		143.08	11.45	2146.16	1.53E+11	8.12E+10
2/26/22	26.37	63	17.213		142.14	11.37	2132.14	1.52E+11	8.07E+10
1/4/22	26.32	64	17.486		141.89	11.35	2128.28	1.51E+11	8.05E+10
12/15/22	25.54	65	17.760		137.68	11.01	2065.25	1.47E+11	7.81E+10
3/31/22	25.30	66	18.033		136.39	10.91	2045.86	1.45E+11	7.74E+10
3/21/22	25.25	67	18.306		136.08	10.89	2041.16	1.45E+11	7.72E+10
4/16/22	25.20	68	18.579		135.81	10.86	2037.16	1.45E+11	7.71E+10
6/15/22	24.45	69	18.852		131.78	10.54	1976.72	1.41E+11	7.48E+10
5/9/22	24.13	70	19.126		130.04	10.40	1950.57	1.39E+11	7.38E+10
4/9/22	23.61	71	19.399		127.25	10.18	1908.73	1.36E+11	7.22E+10
11/27/22	23.42	72	19.672		126.24	10.10	1893.62	1.35E+11	7.16E+10
3/3/22	23.00	73	19.945		124.00	9.92	1859.94	1.32E+11	7.04E+10
3/29/22	23.00	74	20.219		123.99	9.92	1859.90	1.32E+11	7.04E+10
4/13/22	22.86	75	20.492		123.20	9.86	1848.02	1.31E+11	6.99E+10
2/13/22	22.03	76	20.765		118.77	9.50	1781.48	1.27E+11	6.74E+10
4/27/22	22.01	77	21.038		118.64	9.49	1779.55	1.27E+11	6.73E+10
3/13/22	22.00	78	21.311		118.59	9.49	1778.80	1.26E+11	6.73E+10
3/30/22	21.62	79	21.585		116.53	9.32	1747.95	1.24E+11	6.61E+10
7/25/22	21.17	80	21.858		114.11	9.13	1711.68	1.22E+11	6.47E+10
1/5/22	20.97	81	22.131		113.03	9.04	1695.51	1.21E+11	6.41E+10
2/11/22	20.52	82	22.404		110.60	8.85	1658.94	1.18E+11	6.28E+10
3/6/22	20.27	83	22.678		109.27	8.74	1638.98	1.17E+11	6.20E+10
3/14/22	20.25	84	22.951		109.12	8.73	1636.87	1.16E+11	6.19E+10
1/10/22	20.24	85	23.224		109.12	8.73	1636.74	1.16E+11	6.19E+10
4/10/22	20.03	86	23.497		107.99	8.64	1619.78	1.15E+11	6.13E+10
4/1/22	19.96	87	23.770		107.60	8.61	1613.93	1.15E+11	6.10E+10
2/4/22	19.57	88	24.044		105.46	8.44	1581.86	1.12E+11	5.98E+10
4/17/22	19.53	89	24.317		105.28	8.42	1579.16	1.12E+11	5.97E+10
4/18/22	19.14	90	24.590		103.16	8.25	1547.34	1.10E+11	5.85E+10
3/4/22	18.80	91	24.863		101.31	8.10	1519.61	1.08E+11	5.75E+10
3/15/22	18.56	92	25.137		100.03	8.00	1500.44	1.07E+11	5.68E+10
4/11/22	18.48	93	25.410		99.58	7.97	1493.72	1.06E+11	5.65E+10
5/10/22	18.18	94	25.683		97.98	7.84	1469.72	1.05E+11	5.56E+10
5/29/22	17.96	95	25.956		96.78	7.74	1451.70	1.03E+11	5.49E+10
4/19/22	17.94	96	26.230		96.71	7.74	1450.64	1.03E+11	5.49E+10
4/2/22	17.69	97	26.503		95.34	7.63	1430.07	1.02E+11	5.41E+10
3/18/22	17.63	98	26.776		95.01	7.60	1425.19	1.01E+11	5.39E+10
4/28/22	17.61	99	27.049		94.89	7.59	1423.39	1.01E+11	5.38E+10
3/5/22	17.34	100	27.322		93.46	7.48	1401.94	9.97E+10	5.30E+10
3/16/22	17.33	101	27.596		93.42	7.47	1401.24	9.96E+10	5.30E+10
4/3/22	16.89	102	27.869		91.03	7.28	1365.46	9.71E+10	5.16E+10
4/5/22	16.86	103	28.142		90.88	7.27	1363.26	9.69E+10	5.16E+10
4/12/22	16.61	104	28.415		89.52	7.16	1342.74	9.55E+10	5.08E+10
3/17/22	16.14	105	28.689		87.00	6.96	1304.98	9.28E+10	4.94E+10
9/12/22	16.00	106	28.962		86.23	6.90	1293.38	9.20E+10	4.89E+10
4/4/22	15.86	107	29.235		85.46	6.84	1281.91	9.12E+10	4.85E+10
6/16/22	15.63	108	29.508		84.25	6.74	1263.75	8.99E+10	4.78E+10
4/29/22	15.53	109	29.781		83.73	6.70	1255.89	8.93E+10	4.75E+10
4/20/22	15.48	110	30.055		83.45	6.68	1251.71	8.90E+10	4.73E+10
4/21/22	15.26	111	30.328		82.23	6.58	1233.47	8.77E+10	4.67E+10
5/20/22	15.07	112	30.601		81.20	6.50	1218.04	8.66E+10	4.61E+10
2/14/22	14.94	113	30.874		80.54	6.44	1208.04	8.59E+10	4.57E+10
5/11/22	14.91	114	31.148		80.38	6.43	1205.73	8.57E+10	4.56E+10
4/30/22	14.78	115	31.421		79.66	6.37	1194.92	8.50E+10	4.52E+10
1/6/22	14.77	116	31.694		79.62	6.37	1194.35	8.49E+10	4.52E+10
5/16/22	14.20	117	31.967		76.52	6.12	1147.80	8.16E+10	4.34E+10
11/28/22	14.02	118	32.240		75.57	6.05	1133.56	8.06E+10	4.29E+10
4/22/22	13.97	119	32.514		75.32	6.03	1129.83	8.03E+10	4.27E+10
4/23/22	13.71	120	32.787		73.90	5.91	1108.55	7.88E+10	4.19E+10

date	S8 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
12/30/22	13.14	121	33.060		70.84	5.67	1062.53	7.56E+10	4.02E+10
5/30/22	13.06	122	33.333		70.39	5.63	1055.85	7.51E+10	3.99E+10
4/24/22	12.91	123	33.607		69.60	5.57	1044.03	7.42E+10	3.95E+10
5/12/22	12.87	124	33.880		69.35	5.55	1040.21	7.40E+10	3.93E+10
1/11/22	12.63	125	34.153		68.08	5.45	1021.17	7.26E+10	3.86E+10
8/31/22	12.11	126	34.426		65.26	5.22	978.85	6.96E+10	3.70E+10
12/27/22	11.68	127	34.699		62.97	5.04	944.56	6.72E+10	3.57E+10
5/14/22	11.45	128	34.973		61.71	4.94	925.66	6.58E+10	3.50E+10
6/17/22	11.42	129	35.246		61.56	4.93	923.46	6.57E+10	3.49E+10
5/13/22	11.36	130	35.519		61.25	4.90	918.81	6.53E+10	3.48E+10
5/19/22	11.23	131	35.792		60.51	4.84	907.64	6.45E+10	3.43E+10
5/15/22	11.19	132	36.066		60.29	4.82	904.34	6.43E+10	3.42E+10
12/16/22	11.11	133	36.339		59.90	4.79	898.45	6.39E+10	3.40E+10
2/10/22	11.08	134	36.612		59.70	4.78	895.51	6.37E+10	3.39E+10
8/10/22	10.53	135	36.885		56.74	4.54	851.12	6.05E+10	3.22E+10
1/7/22	10.47	136	37.158		56.45	4.52	846.68	6.02E+10	3.20E+10
5/18/22	10.21	137	37.432		55.02	4.40	825.36	5.87E+10	3.12E+10
1/12/22	10.12	138	37.705		54.53	4.36	817.98	5.82E+10	3.09E+10
5/31/22	10.06	139	37.978		54.23	4.34	813.45	5.78E+10	3.08E+10
12/26/22	10.06	140	38.251		54.21	4.34	813.10	5.78E+10	3.08E+10
5/17/22	10.03	141	38.525		54.04	4.32	810.59	5.76E+10	3.07E+10
2/15/22	9.88	142	38.798		53.24	4.26	798.57	5.68E+10	3.02E+10
5/21/22	9.55	143	39.071		51.47	4.12	772.00	5.49E+10	2.92E+10
1/8/22	9.54	144	39.344		51.44	4.12	771.65	5.49E+10	2.92E+10
2/9/22	9.18	145	39.617		49.50	3.96	742.46	5.28E+10	2.81E+10
5/25/22	9.15	146	39.891		49.35	3.95	740.18	5.26E+10	2.80E+10
6/1/22	8.83	147	40.164		47.58	3.81	713.63	5.07E+10	2.70E+10
1/13/22	8.81	148	40.437		47.51	3.80	712.66	5.07E+10	2.70E+10
2/8/22	8.56	149	40.710		46.12	3.69	691.79	4.92E+10	2.62E+10
12/29/22	8.37	150	40.984		45.14	3.61	677.06	4.81E+10	2.56E+10
12/28/22	8.23	151	41.257		44.38	3.55	665.72	4.73E+10	2.52E+10
5/22/22	7.78	152	41.530		41.91	3.35	628.67	4.47E+10	2.38E+10
2/5/22	7.75	153	41.803		41.77	3.34	626.60	4.46E+10	2.37E+10
8/1/22	7.71	154	42.077		41.58	3.33	623.75	4.44E+10	2.36E+10
6/18/22	7.71	155	42.350		41.55	3.32	623.26	4.43E+10	2.36E+10
6/2/22	7.61	156	42.623		41.01	3.28	615.09	4.37E+10	2.33E+10
8/4/22	7.56	157	42.896		40.73	3.26	610.91	4.34E+10	2.31E+10
1/14/22	7.29	158	43.169		39.29	3.14	589.42	4.19E+10	2.23E+10
7/24/22	7.12	159	43.443		38.39	3.07	575.90	4.10E+10	2.18E+10
6/7/22	7.10	160	43.716		38.25	3.06	573.81	4.08E+10	2.17E+10
10/25/22	6.73	161	43.989		36.28	2.90	544.13	3.87E+10	2.06E+10
10/27/22	6.70	162	44.262		36.11	2.89	541.62	3.85E+10	2.05E+10
12/25/22	6.65	163	44.536		35.82	2.87	537.29	3.82E+10	2.03E+10
11/29/22	6.45	164	44.809		34.74	2.78	521.11	3.71E+10	1.97E+10
5/23/22	6.34	165	45.082		34.16	2.73	512.41	3.64E+10	1.94E+10
7/26/22	6.29	166	45.355		33.88	2.71	508.18	3.61E+10	1.92E+10
9/13/22	6.25	167	45.628		33.67	2.69	505.08	3.59E+10	1.91E+10
2/6/22	6.19	168	45.902		33.38	2.67	500.72	3.56E+10	1.89E+10
12/17/22	6.19	169	46.175		33.37	2.67	500.59	3.56E+10	1.89E+10
2/7/22	6.18	170	46.448		33.33	2.67	500.02	3.56E+10	1.89E+10
12/19/22	6.18	171	46.721		33.32	2.67	499.80	3.55E+10	1.89E+10
6/3/22	6.14	172	46.995		33.11	2.65	496.72	3.53E+10	1.88E+10
1/15/22	6.06	173	47.268		32.67	2.61	490.08	3.49E+10	1.85E+10
6/26/22	5.86	174	47.541		31.59	2.53	473.80	3.37E+10	1.79E+10
6/19/22	5.68	175	47.814		30.61	2.45	459.18	3.27E+10	1.74E+10
11/30/22	5.57	176	48.087		30.04	2.40	450.66	3.20E+10	1.70E+10
12/24/22	5.50	177	48.361		29.66	2.37	444.96	3.16E+10	1.68E+10
1/16/22	5.44	178	48.634		29.30	2.34	439.49	3.13E+10	1.66E+10
6/8/22	5.41	179	48.907		29.14	2.33	437.13	3.11E+10	1.65E+10
5/24/22	5.40	180	49.180		29.11	2.33	436.67	3.11E+10	1.65E+10

date	S8 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/6/22	5.30	181	49.454		28.55	2.28	428.22	3.05E+10	1.62E+10
8/11/22	5.24	182	49.727		28.24	2.26	423.56	3.01E+10	1.60E+10
6/11/22	5.21	183	50.000		28.09	2.25	421.40	3.00E+10	1.59E+10
7/27/22	4.95	184	50.273		26.70	2.14	400.56	2.85E+10	1.52E+10
6/4/22	4.94	185	50.546		26.62	2.13	399.24	2.84E+10	1.51E+10
6/9/22	4.90	186	50.820		26.42	2.11	396.31	2.82E+10	1.50E+10
8/2/22	4.76	187	51.093		25.68	2.05	385.20	2.74E+10	1.46E+10
6/10/22	4.63	188	51.366		24.93	1.99	374.01	2.66E+10	1.41E+10
8/5/22	4.61	189	51.639		24.85	1.99	372.70	2.65E+10	1.41E+10
12/23/22	4.57	190	51.913		24.61	1.97	369.16	2.63E+10	1.40E+10
7/28/22	4.55	191	52.186		24.51	1.96	367.70	2.61E+10	1.39E+10
9/1/22	4.51	192	52.459		24.31	1.94	364.64	2.59E+10	1.38E+10
6/20/22	4.45	193	52.732		24.00	1.92	360.05	2.56E+10	1.36E+10
6/5/22	4.44	194	53.005		23.92	1.91	358.85	2.55E+10	1.36E+10
12/14/22	4.39	195	53.279		23.66	1.89	354.97	2.52E+10	1.34E+10
12/18/22	4.38	196	53.552		23.62	1.89	354.29	2.52E+10	1.34E+10
8/29/22	4.36	197	53.825		23.50	1.88	352.51	2.51E+10	1.33E+10
1/17/22	4.14	198	54.098		22.31	1.78	334.61	2.38E+10	1.27E+10
7/9/22	4.11	199	54.372		22.14	1.77	332.16	2.36E+10	1.26E+10
6/21/22	3.92	200	54.645		21.13	1.69	316.99	2.25E+10	1.20E+10
6/27/22	3.80	201	54.918		20.49	1.64	307.42	2.19E+10	1.16E+10
12/21/22	3.79	202	55.191		20.41	1.63	306.15	2.18E+10	1.16E+10
8/12/22	3.76	203	55.464		20.29	1.62	304.31	2.16E+10	1.15E+10
6/22/22	3.72	204	55.738		20.07	1.61	301.03	2.14E+10	1.14E+10
12/1/22	3.54	205	56.011		19.08	1.53	286.27	2.04E+10	1.08E+10
8/14/22	3.54	206	56.284		19.07	1.53	286.09	2.03E+10	1.08E+10
2/1/22	3.48	207	56.557		18.78	1.50	281.72	2.00E+10	1.07E+10
9/14/22	3.48	208	56.831		18.76	1.50	281.35	2.00E+10	1.06E+10
7/29/22	3.47	209	57.104		18.73	1.50	280.91	2.00E+10	1.06E+10
10/28/22	3.40	210	57.377		18.34	1.47	275.10	1.96E+10	1.04E+10
6/23/22	3.15	211	57.650		16.96	1.36	254.33	1.81E+10	9.62E+09
12/20/22	3.14	212	57.923		16.94	1.36	254.06	1.81E+10	9.61E+09
12/22/22	3.13	213	58.197		16.86	1.35	252.97	1.80E+10	9.57E+09
8/21/22	3.11	214	58.470		16.74	1.34	251.13	1.79E+10	9.50E+09
1/18/22	3.06	215	58.743		16.49	1.32	247.41	1.76E+10	9.36E+09
12/10/22	3.03	216	59.016		16.35	1.31	245.26	1.74E+10	9.28E+09
12/2/22	2.93	217	59.290		15.81	1.27	237.22	1.69E+10	8.97E+09
8/15/22	2.91	218	59.563		15.69	1.26	235.38	1.67E+10	8.90E+09
8/3/22	2.89	219	59.836		15.56	1.24	233.39	1.66E+10	8.83E+09
8/13/22	2.83	220	60.109		15.25	1.22	228.77	1.63E+10	8.65E+09
8/20/22	2.83	221	60.383		15.24	1.22	228.53	1.63E+10	8.64E+09
7/30/22	2.72	222	60.656		14.68	1.17	220.20	1.57E+10	8.33E+09
12/3/22	2.71	223	60.929		14.61	1.17	219.22	1.56E+10	8.29E+09
8/16/22	2.66	224	61.202		14.33	1.15	214.99	1.53E+10	8.13E+09
7/8/22	2.65	225	61.475		14.28	1.14	214.24	1.52E+10	8.10E+09
9/2/22	2.62	226	61.749		14.14	1.13	212.12	1.51E+10	8.02E+09
7/10/22	2.59	227	62.022		13.96	1.12	209.47	1.49E+10	7.92E+09
8/23/22	2.56	228	62.295		13.82	1.11	207.37	1.47E+10	7.84E+09
9/19/22	2.56	229	62.568		13.80	1.10	206.96	1.47E+10	7.83E+09
1/31/22	2.52	230	62.842		13.60	1.09	203.94	1.45E+10	7.71E+09
12/7/22	2.51	231	63.115		13.51	1.08	202.58	1.44E+10	7.66E+09
10/29/22	2.47	232	63.388		13.34	1.07	200.10	1.42E+10	7.57E+09
10/18/22	2.47	233	63.661		13.33	1.07	199.95	1.42E+10	7.56E+09
12/6/22	2.45	234	63.934		13.21	1.06	198.14	1.41E+10	7.49E+09
12/9/22	2.44	235	64.208		13.13	1.05	196.93	1.40E+10	7.45E+09
12/11/22	2.43	236	64.481		13.11	1.05	196.68	1.40E+10	7.44E+09
10/19/22	2.43	237	64.754		13.11	1.05	196.60	1.40E+10	7.44E+09
12/5/22	2.43	238	65.027		13.09	1.05	196.28	1.40E+10	7.42E+09
9/15/22	2.38	239	65.301		12.81	1.03	192.20	1.37E+10	7.27E+09
12/4/22	2.37	240	65.574		12.75	1.02	191.25	1.36E+10	7.23E+09



date	S8 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/24/22	2.35	241	65.847		12.68	1.01	190.24	1.35E+10	7.20E+09
12/8/22	2.33	242	66.120		12.58	1.01	188.70	1.34E+10	7.14E+09
6/28/22	2.33	243	66.393		12.55	1.00	188.29	1.34E+10	7.12E+09
8/22/22	2.31	244	66.667		12.46	1.00	186.86	1.33E+10	7.07E+09
11/13/22	2.28	245	66.940		12.29	0.98	184.28	1.31E+10	6.97E+09
1/19/22	2.27	246	67.213		12.26	0.98	183.83	1.31E+10	6.95E+09
12/12/22	2.27	247	67.486		12.22	0.98	183.23	1.30E+10	6.93E+09
10/31/22	2.19	248	67.760		11.81	0.94	177.16	1.26E+10	6.70E+09
9/24/22	2.18	249	68.033		11.76	0.94	176.45	1.25E+10	6.67E+09
12/13/22	2.17	250	68.306		11.67	0.93	175.12	1.25E+10	6.62E+09
1/30/22	2.16	251	68.579		11.66	0.93	174.83	1.24E+10	6.61E+09
11/4/22	2.16	252	68.852		11.63	0.93	174.38	1.24E+10	6.60E+09
11/6/22	2.11	253	69.126		11.36	0.91	170.43	1.21E+10	6.45E+09
9/3/22	2.11	254	69.399		11.36	0.91	170.38	1.21E+10	6.44E+09
8/19/22	2.10	255	69.672		11.34	0.91	170.11	1.21E+10	6.43E+09
6/25/22	2.10	256	69.945		11.34	0.91	170.05	1.21E+10	6.43E+09
11/5/22	2.10	257	70.219		11.32	0.91	169.87	1.21E+10	6.43E+09
10/13/22	2.09	258	70.492		11.29	0.90	169.31	1.20E+10	6.40E+09
10/30/22	2.08	259	70.765		11.23	0.90	168.52	1.20E+10	6.37E+09
10/15/22	2.07	260	71.038		11.13	0.89	166.98	1.19E+10	6.32E+09
1/29/22	2.06	261	71.311		11.11	0.89	166.67	1.19E+10	6.30E+09
1/20/22	2.04	262	71.585		10.99	0.88	164.84	1.17E+10	6.24E+09
10/14/22	2.04	263	71.858		10.97	0.88	164.54	1.17E+10	6.22E+09
11/16/22	2.03	264	72.131		10.95	0.88	164.24	1.17E+10	6.21E+09
7/1/22	2.02	265	72.404		10.88	0.87	163.18	1.16E+10	6.17E+09
1/28/22	2.01	266	72.678		10.84	0.87	162.59	1.16E+10	6.15E+09
6/29/22	1.99	267	72.951		10.73	0.86	161.01	1.14E+10	6.09E+09
11/1/22	1.98	268	73.224		10.69	0.86	160.37	1.14E+10	6.07E+09
1/24/22	1.97	269	73.497		10.61	0.85	159.08	1.13E+10	6.02E+09
1/25/22	1.97	270	73.770		10.61	0.85	159.08	1.13E+10	6.02E+09
1/26/22	1.97	271	74.044		10.61	0.85	159.08	1.13E+10	6.02E+09
1/27/22	1.97	272	74.317		10.61	0.85	159.08	1.13E+10	6.02E+09
1/21/22	1.92	273	74.590		10.35	0.83	155.28	1.10E+10	5.87E+09
1/23/22	1.90	274	74.863		10.25	0.82	153.73	1.09E+10	5.82E+09
11/19/22	1.90	275	75.137		10.24	0.82	153.57	1.09E+10	5.81E+09
9/16/22	1.89	276	75.410		10.20	0.82	153.02	1.09E+10	5.79E+09
11/14/22	1.89	277	75.683		10.19	0.82	152.89	1.09E+10	5.78E+09
10/16/22	1.89	278	75.956		10.19	0.81	152.80	1.09E+10	5.78E+09
11/15/22	1.89	279	76.230		10.18	0.81	152.66	1.09E+10	5.77E+09
1/22/22	1.88	280	76.503		10.12	0.81	151.76	1.08E+10	5.74E+09
11/17/22	1.87	281	76.776		10.06	0.80	150.86	1.07E+10	5.71E+09
7/11/22	1.85	282	77.049		9.99	0.80	149.89	1.07E+10	5.67E+09
11/18/22	1.84	283	77.322		9.93	0.79	148.92	1.06E+10	5.63E+09
11/2/22	1.84	284	77.596		9.91	0.79	148.62	1.06E+10	5.62E+09
9/20/22	1.84	285	77.869		9.91	0.79	148.59	1.06E+10	5.62E+09
11/12/22	1.83	286	78.142		9.85	0.79	147.69	1.05E+10	5.59E+09
8/17/22	1.79	287	78.415		9.66	0.77	144.92	1.03E+10	5.48E+09
11/10/22	1.77	288	78.689		9.56	0.76	143.41	1.02E+10	5.42E+09
10/17/22	1.77	289	78.962		9.53	0.76	143.00	1.02E+10	5.41E+09
11/3/22	1.77	290	79.235		9.52	0.76	142.80	1.02E+10	5.40E+09
6/30/22	1.74	291	79.508		9.38	0.75	140.67	1.00E+10	5.32E+09
8/24/22	1.72	292	79.781		9.26	0.74	138.92	9.88E+09	5.25E+09
11/20/22	1.69	293	80.055		9.12	0.73	136.86	9.73E+09	5.18E+09
11/23/22	1.69	294	80.328		9.12	0.73	136.85	9.73E+09	5.18E+09
11/7/22	1.69	295	80.601		9.10	0.73	136.53	9.71E+09	5.16E+09
11/24/22	1.68	296	80.874		9.05	0.72	135.72	9.65E+09	5.13E+09
11/25/22	1.65	297	81.148		8.90	0.71	133.44	9.49E+09	5.05E+09
11/11/22	1.64	298	81.421		8.85	0.71	132.79	9.44E+09	5.02E+09
9/25/22	1.64	299	81.694		8.82	0.71	132.23	9.40E+09	5.00E+09
11/22/22	1.63	300	81.967		8.79	0.70	131.88	9.38E+09	4.99E+09

date	S8 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
11/8/22	1.63	301	82.240		8.76	0.70	131.39	9.34E+09	4.97E+09
10/12/22	1.62	302	82.514		8.72	0.70	130.84	9.30E+09	4.95E+09
8/6/22	1.61	303	82.787		8.69	0.70	130.37	9.27E+09	4.93E+09
11/21/22	1.59	304	83.060		8.58	0.69	128.64	9.15E+09	4.87E+09
9/22/22	1.59	305	83.333		8.55	0.68	128.29	9.12E+09	4.85E+09
8/27/22	1.51	306	83.607		8.15	0.65	122.22	8.69E+09	4.62E+09
11/26/22	1.49	307	83.880		8.04	0.64	120.67	8.58E+09	4.56E+09
9/23/22	1.49	308	84.153		8.01	0.64	120.21	8.55E+09	4.55E+09
9/17/22	1.46	309	84.426		7.89	0.63	118.38	8.42E+09	4.48E+09
8/8/22	1.46	310	84.699		7.89	0.63	118.31	8.41E+09	4.48E+09
8/7/22	1.45	311	84.973		7.80	0.62	117.00	8.32E+09	4.43E+09
10/20/22	1.42	312	85.246		7.65	0.61	114.82	8.17E+09	4.34E+09
9/4/22	1.42	313	85.519		7.64	0.61	114.55	8.15E+09	4.33E+09
7/18/22	1.41	314	85.792		7.60	0.61	113.93	8.10E+09	4.31E+09
9/21/22	1.39	315	86.066		7.50	0.60	112.55	8.00E+09	4.26E+09
7/2/22	1.36	316	86.339		7.34	0.59	110.10	7.83E+09	4.16E+09
9/26/22	1.34	317	86.612		7.22	0.58	108.26	7.70E+09	4.09E+09
7/19/22	1.34	318	86.885		7.20	0.58	108.04	7.68E+09	4.09E+09
9/18/22	1.32	319	87.158		7.13	0.57	106.89	7.60E+09	4.04E+09
9/5/22	1.31	320	87.432		7.06	0.56	105.89	7.53E+09	4.01E+09
9/27/22	1.24	321	87.705		6.70	0.54	100.46	7.14E+09	3.80E+09
10/24/22	1.20	322	87.978		6.49	0.52	97.40	6.93E+09	3.68E+09
7/12/22	1.14	323	88.251		6.15	0.49	92.28	6.56E+09	3.49E+09
7/3/22	1.10	324	88.525		5.95	0.48	89.28	6.35E+09	3.38E+09
7/31/22	1.08	325	88.798		5.80	0.46	86.95	6.18E+09	3.29E+09
9/6/22	1.05	326	89.071		5.69	0.45	85.28	6.06E+09	3.23E+09
10/4/22	1.04	327	89.344		5.63	0.45	84.39	6.00E+09	3.19E+09
8/18/22	1.02	328	89.617		5.49	0.44	82.34	5.86E+09	3.11E+09
9/29/22	0.91	329	89.891		4.89	0.39	73.31	5.21E+09	2.77E+09
10/10/22	0.89	330	90.164		4.78	0.38	71.68	5.10E+09	2.71E+09
7/4/22	0.85	331	90.437		4.57	0.37	68.54	4.87E+09	2.59E+09
10/9/22	0.84	332	90.710		4.53	0.36	68.00	4.84E+09	2.57E+09
8/25/22	0.83	333	90.984		4.47	0.36	67.02	4.77E+09	2.54E+09
9/7/22	0.80	334	91.257		4.31	0.34	64.66	4.60E+09	2.45E+09
10/11/22	0.70	335	91.530		3.76	0.30	56.33	4.01E+09	2.13E+09
11/9/22	0.69	336	91.803		3.73	0.30	55.97	3.98E+09	2.12E+09
10/5/22	0.61	337	92.077		3.27	0.26	49.12	3.49E+09	1.86E+09
9/28/22	0.56	338	92.350		3.01	0.24	45.19	3.21E+09	1.71E+09
10/23/22	0.54	339	92.623		2.90	0.23	43.49	3.09E+09	1.65E+09
10/1/22	0.49	340	92.896		2.66	0.21	39.96	2.84E+09	1.51E+09
10/8/22	0.46	341	93.169		2.48	0.20	37.26	2.65E+09	1.41E+09
7/17/22	0.44	342	93.443		2.36	0.19	35.33	2.51E+09	1.34E+09
10/21/22	0.44	343	93.716		2.35	0.19	35.32	2.51E+09	1.34E+09
7/6/22	0.42	344	93.989		2.27	0.18	34.06	2.42E+09	1.29E+09
7/7/22	0.42	345	94.262		2.26	0.18	33.97	2.42E+09	1.28E+09
8/28/22	0.34	346	94.536		1.81	0.15	27.22	1.94E+09	1.03E+09
9/8/22	0.32	347	94.809		1.73	0.14	25.99	1.85E+09	9.83E+08
10/3/22	0.29	348	95.082		1.59	0.13	23.78	1.69E+09	9.00E+08
9/30/22	0.29	349	95.355		1.55	0.12	23.19	1.65E+09	8.77E+08
9/10/22	0.27	350	95.628		1.47	0.12	22.05	1.57E+09	8.34E+08
7/22/22	0.25	351	95.902		1.36	0.11	20.33	1.45E+09	7.69E+08
7/21/22	0.25	352	96.175		1.33	0.11	19.89	1.41E+09	7.52E+08
7/14/22	0.24	353	96.448		1.31	0.10	19.61	1.39E+09	7.42E+08
10/7/22	0.24	354	96.721		1.30	0.10	19.48	1.39E+09	7.37E+08
7/23/22	0.24	355	96.995		1.29	0.10	19.31	1.37E+09	7.30E+08
8/26/22	0.24	356	97.268		1.28	0.10	19.25	1.37E+09	7.28E+08
7/16/22	0.22	357	97.541		1.20	0.10	18.07	1.29E+09	6.84E+08
10/22/22	0.21	358	97.814		1.15	0.09	17.27	1.23E+09	6.53E+08
7/13/22	0.21	359	98.087		1.15	0.09	17.25	1.23E+09	6.53E+08
10/6/22	0.20	360	98.361		1.09	0.09	16.36	1.16E+09	6.19E+08

date	S8 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
7/5/22	0.19	361	98.634		1.01	0.08	15.10	1.07E+09	5.71E+08
7/20/22	0.17	362	98.907		0.89	0.07	13.42	9.55E+08	5.08E+08
10/2/22	0.14	363	99.180		0.78	0.06	11.69	8.31E+08	4.42E+08
7/15/22	0.14	364	99.454		0.76	0.06	11.33	8.05E+08	4.28E+08
9/9/22	0.07	365	99.727		0.38	0.03	5.69	4.05E+08	2.15E+08
<b>TOTAL NUMBER</b>	365								
					1.00	0.08	15.00	235.00	125.00
					5.39	5.39	5.39	24465758.40	24465758.40

Date	Flow	NO3_N (mg/L)	TP (mg/L)	TSS (mg/L)	Ecoli (col/100 mL)
1/26/22	1.97	4.53	0.206	2	25.8
2/23/22	83.68	5.81	0.699	23	162.4
3/23/22	236.04	6.4	1.6	73	686.7
4/27/22	22.01	9.38	0.215	2	228.2
5/24/22	5.40	5.87	0.274	3	275.5
6/27/22	3.80	1.06	0.133	1	167.4
7/25/22	4.95	0.425	1.33	5	201.4
8/22/22	2.31	0.378	1.25	109	2419.6
9/28/22	0.56	0.152	0.005	8	248.1
10/24/22	1.20	0.205	0.012	14	325.5
11/16/22	2.03	0.261	0.003	5	23.6
12/21/22	3.79	0.491	0.014	6	12.2
1/25/23					

Date	% Flow Exceed		NO3 Act Load	TP Act Load	TSS Act Load	Ecoli Act Load
1/26/22	74.04371585		48.04117369	2.18465381	21.21023121	1.24E+09
2/23/22	3.551912568		2620.643034	315.289067	10374.31838	3.32E+11
3/23/22	1.092896175		8142.590884	2035.64772	92876.42727	3.97E+12
4/27/22	21.03825137		1112.810615	25.5068531	237.2730523	1.23E+11
5/24/22	49.18032787		170.8851898	7.97658297	87.33484999	3.64E+10
6/27/22	54.91803279		21.72465785	2.72582971	20.49496023	1.56E+10
7/25/22	21.8579235		11.34915387	35.5161756	133.5194573	2.44E+10
8/22/22	66.66666667		4.708977246	15.5720147	1357.879682	1.37E+11
9/28/22	92.34972678		0.457911732	0.01506289	24.10061749	3.39E+09
10/24/22	87.97814208		1.331088227	0.07791736	90.90358626	9.59E+09
11/16/22	72.13114754		2.857721753	0.03284738	54.74562745	1.17E+09
12/21/22	55.19125683		10.02115795	0.28573566	122.4581419	1.13E+09
1/25/23						

Date	Ann Load Proxy Range		NO3 Ann Load	TP Ann Load
1/26/22		28	1345.152863	61.17030681
2/23/22		28	73378.00494	8828.093882
3/23/22		35	284990.6809	71247.67023
4/27/22		27	30045.88662	688.6850344
5/24/22		34	5810.096454	271.2038208
6/27/22		28	608.2904197	76.32323191
7/25/22		28	317.7763084	994.452918
8/22/22		37	174.2321581	576.1645439
9/28/22		26	11.90570504	0.391635034
10/24/22		23	30.61502923	1.792099272
11/16/22		35	100.0202613	1.149658176
12/21/22		35	350.7405282	10.00074826
1/25/23				

Date	TSS Ann Load	Ecoli Ann Load
1/26/22	593.8864739	3.48E+10
2/23/22	290480.9146	9.31E+12
3/23/22	3250674.954	1.39E+14
4/27/22	6406.372413	3.32E+12
5/24/22	2969.3849	1.24E+12
6/27/22	573.8588866	4.36E+11
7/25/22	3738.544804	6.84E+11
8/22/22	50241.54823	5.06E+12
9/28/22	626.6160548	8.82E+10
10/24/22	2090.782484	2.21E+11
11/16/22	1916.096961	4.11E+10
12/21/22	4286.034968	3.96E+10
1/25/23		

date	S9 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
2/17/22	489.30	1	0.273		2637.31	210.99	39559.69	2.81E+12	1.50E+12
3/7/22	335.77	2	0.546		1809.81	144.78	27147.14	1.93E+12	1.03E+12
2/18/22	236.88	3	0.820		1276.78	102.14	19151.72	1.36E+12	7.24E+11
3/23/22	219.11	4	1.093		1181.01	94.48	17715.14	1.26E+12	6.70E+11
5/1/22	144.26	5	1.366		777.54	62.20	11663.13	8.29E+11	4.41E+11
3/8/22	131.54	6	1.639		709.00	56.72	10635.04	7.56E+11	4.02E+11
2/22/22	108.44	7	1.913		584.51	46.76	8767.61	6.23E+11	3.32E+11
2/16/22	96.34	8	2.186		519.25	41.54	7788.76	5.54E+11	2.95E+11
3/24/22	93.74	9	2.459		505.27	40.42	7579.09	5.39E+11	2.87E+11
5/6/22	89.52	10	2.732		482.53	38.60	7238.00	5.15E+11	2.74E+11
1/2/22	85.49	11	3.005		460.77	36.86	6911.59	4.92E+11	2.61E+11
2/19/22	81.87	12	3.279		441.27	35.30	6619.05	4.71E+11	2.50E+11
2/23/22	77.68	13	3.552		418.70	33.50	6280.49	4.47E+11	2.38E+11
8/30/22	76.32	14	3.825		411.36	32.91	6170.45	4.39E+11	2.33E+11
2/2/22	75.72	15	4.098		408.15	32.65	6122.28	4.35E+11	2.32E+11
5/7/22	72.28	16	4.372		389.60	31.17	5844.05	4.16E+11	2.21E+11
5/4/22	66.29	17	4.645		357.30	28.58	5359.50	3.81E+11	2.03E+11
3/9/22	65.38	18	4.918		352.41	28.19	5286.10	3.76E+11	2.00E+11
6/12/22	64.40	19	5.191		347.10	27.77	5206.54	3.70E+11	1.97E+11
6/13/22	61.15	20	5.464		329.61	26.37	4944.16	3.52E+11	1.87E+11
5/2/22	53.96	21	5.738		290.85	23.27	4362.79	3.10E+11	1.65E+11
4/14/22	53.24	22	6.011		286.95	22.96	4304.20	3.06E+11	1.63E+11
5/27/22	52.79	23	6.284		284.54	22.76	4268.13	3.04E+11	1.61E+11
5/3/22	51.74	24	6.557		278.90	22.31	4183.55	2.98E+11	1.58E+11
6/14/22	51.05	25	6.831		275.13	22.01	4127.00	2.93E+11	1.56E+11
3/25/22	50.94	26	7.104		274.58	21.97	4118.76	2.93E+11	1.56E+11
2/21/22	49.92	27	7.377		269.09	21.53	4036.35	2.87E+11	1.53E+11
2/20/22	48.95	28	7.650		263.82	21.11	3957.23	2.81E+11	1.50E+11
3/22/22	47.42	29	7.923		255.58	20.45	3833.65	2.73E+11	1.45E+11
2/3/22	44.74	30	8.197		241.16	19.29	3617.45	2.57E+11	1.37E+11
1/1/22	44.06	31	8.470		237.47	19.00	3562.00	2.53E+11	1.35E+11
5/5/22	41.85	32	8.743		225.56	18.04	3383.42	2.41E+11	1.28E+11
3/10/22	41.62	33	9.016		224.35	17.95	3365.26	2.39E+11	1.27E+11
12/31/22	41.25	34	9.290		222.32	17.79	3334.78	2.37E+11	1.26E+11
3/26/22	39.19	35	9.563		211.22	16.90	3168.28	2.25E+11	1.20E+11
4/25/22	39.13	36	9.836		210.90	16.87	3163.54	2.25E+11	1.20E+11
2/24/22	38.95	37	10.109		209.93	16.79	3149.02	2.24E+11	1.19E+11
2/12/22	38.10	38	10.383		205.36	16.43	3080.43	2.19E+11	1.17E+11
1/3/22	37.70	39	10.656		203.22	16.26	3048.32	2.17E+11	1.15E+11
5/26/22	37.03	40	10.929		199.58	15.97	2993.69	2.13E+11	1.13E+11
9/11/22	35.85	41	11.202		193.22	15.46	2898.33	2.06E+11	1.10E+11
5/8/22	33.41	42	11.475		180.10	14.41	2701.48	1.92E+11	1.02E+11
3/11/22	32.99	43	11.749		177.79	14.22	2666.84	1.90E+11	1.01E+11
4/7/22	32.53	44	12.022		175.32	14.03	2629.87	1.87E+11	9.95E+10
4/15/22	32.21	45	12.295		173.62	13.89	2604.29	1.85E+11	9.85E+10
1/9/22	32.19	46	12.568		173.51	13.88	2602.70	1.85E+11	9.84E+10
4/26/22	31.67	47	12.842		170.70	13.66	2560.51	1.82E+11	9.69E+10
3/19/22	31.29	48	13.115		168.68	13.49	2530.16	1.80E+11	9.57E+10
3/27/22	30.63	49	13.388		165.10	13.21	2476.55	1.76E+11	9.37E+10
2/25/22	30.51	50	13.661		164.43	13.15	2466.51	1.75E+11	9.33E+10
3/1/22	29.49	51	13.934		158.95	12.72	2384.21	1.70E+11	9.02E+10
3/20/22	28.60	52	14.208		154.14	12.33	2312.12	1.64E+11	8.75E+10
2/28/22	28.34	53	14.481		152.77	12.22	2291.60	1.63E+11	8.67E+10
2/27/22	27.23	54	14.754		146.77	11.74	2201.55	1.57E+11	8.33E+10
10/26/22	27.04	55	15.027		145.75	11.66	2186.30	1.55E+11	8.27E+10
3/2/22	26.51	56	15.301		142.90	11.43	2143.57	1.52E+11	8.11E+10
4/6/22	26.50	57	15.574		142.85	11.43	2142.72	1.52E+11	8.11E+10
5/28/22	26.48	58	15.847		142.75	11.42	2141.25	1.52E+11	8.10E+10
8/9/22	25.87	59	16.120		139.42	11.15	2091.26	1.49E+11	7.91E+10
3/12/22	25.53	60	16.393		137.63	11.01	2064.38	1.47E+11	7.81E+10



date	S9 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
3/28/22	24.67	61	16.667		132.98	10.64	1994.77	1.42E+11	7.55E+10
4/8/22	24.64	62	16.940		132.81	10.63	1992.20	1.42E+11	7.54E+10
2/26/22	24.48	63	17.213		131.95	10.56	1979.19	1.41E+11	7.49E+10
1/4/22	24.44	64	17.486		131.71	10.54	1975.60	1.40E+11	7.47E+10
12/15/22	23.71	65	17.760		127.81	10.22	1917.09	1.36E+11	7.25E+10
3/31/22	23.49	66	18.033		126.61	10.13	1899.10	1.35E+11	7.18E+10
3/21/22	23.44	67	18.306		126.32	10.11	1894.73	1.35E+11	7.17E+10
4/16/22	23.39	68	18.579		126.07	10.09	1891.02	1.34E+11	7.15E+10
6/15/22	22.70	69	18.852		122.33	9.79	1834.92	1.30E+11	6.94E+10
5/9/22	22.40	70	19.126		120.71	9.66	1810.64	1.29E+11	6.85E+10
4/9/22	21.91	71	19.399		118.12	9.45	1771.80	1.26E+11	6.70E+10
11/27/22	21.74	72	19.672		117.18	9.37	1757.77	1.25E+11	6.65E+10
3/3/22	21.35	73	19.945		115.10	9.21	1726.51	1.23E+11	6.53E+10
3/29/22	21.35	74	20.219		115.10	9.21	1726.47	1.23E+11	6.53E+10
4/13/22	21.22	75	20.492		114.36	9.15	1715.44	1.22E+11	6.49E+10
2/13/22	20.45	76	20.765		110.25	8.82	1653.68	1.18E+11	6.26E+10
4/27/22	20.43	77	21.038		110.13	8.81	1651.89	1.17E+11	6.25E+10
3/13/22	20.42	78	21.311		110.08	8.81	1651.19	1.17E+11	6.25E+10
3/30/22	20.07	79	21.585		108.17	8.65	1622.55	1.15E+11	6.14E+10
7/25/22	19.65	80	21.858		105.93	8.47	1588.89	1.13E+11	6.01E+10
1/5/22	19.47	81	22.131		104.93	8.39	1573.88	1.12E+11	5.95E+10
2/11/22	19.05	82	22.404		102.66	8.21	1539.93	1.10E+11	5.82E+10
3/6/22	18.82	83	22.678		101.43	8.11	1521.41	1.08E+11	5.75E+10
3/14/22	18.79	84	22.951		101.30	8.10	1519.45	1.08E+11	5.75E+10
1/10/22	18.79	85	23.224		101.29	8.10	1519.33	1.08E+11	5.75E+10
4/10/22	18.60	86	23.497		100.24	8.02	1503.58	1.07E+11	5.69E+10
4/1/22	18.53	87	23.770		99.88	7.99	1498.15	1.07E+11	5.67E+10
2/4/22	18.16	88	24.044		97.89	7.83	1468.38	1.04E+11	5.55E+10
4/17/22	18.13	89	24.317		97.73	7.82	1465.88	1.04E+11	5.54E+10
4/18/22	17.77	90	24.590		95.76	7.66	1436.34	1.02E+11	5.43E+10
3/4/22	17.45	91	24.863		94.04	7.52	1410.59	1.00E+11	5.34E+10
3/15/22	17.23	92	25.137		92.85	7.43	1392.80	9.90E+10	5.27E+10
4/11/22	17.15	93	25.410		92.44	7.39	1386.56	9.86E+10	5.24E+10
5/10/22	16.87	94	25.683		90.95	7.28	1364.28	9.70E+10	5.16E+10
5/29/22	16.67	95	25.956		89.84	7.19	1347.56	9.58E+10	5.10E+10
4/19/22	16.66	96	26.230		89.77	7.18	1346.58	9.58E+10	5.09E+10
4/2/22	16.42	97	26.503		88.50	7.08	1327.48	9.44E+10	5.02E+10
3/18/22	16.36	98	26.776		88.20	7.06	1322.95	9.41E+10	5.00E+10
4/28/22	16.34	99	27.049		88.09	7.05	1321.28	9.40E+10	5.00E+10
3/5/22	16.10	100	27.322		86.76	6.94	1301.37	9.25E+10	4.92E+10
3/16/22	16.09	101	27.596		86.71	6.94	1300.72	9.25E+10	4.92E+10
4/3/22	15.68	102	27.869		84.50	6.76	1267.51	9.01E+10	4.79E+10
4/5/22	15.65	103	28.142		84.36	6.75	1265.47	9.00E+10	4.79E+10
4/12/22	15.42	104	28.415		83.09	6.65	1246.41	8.86E+10	4.71E+10
3/17/22	14.98	105	28.689		80.76	6.46	1211.36	8.61E+10	4.58E+10
9/12/22	14.85	106	28.962		80.04	6.40	1200.59	8.54E+10	4.54E+10
4/4/22	14.72	107	29.235		79.33	6.35	1189.94	8.46E+10	4.50E+10
6/16/22	14.51	108	29.508		78.21	6.26	1173.09	8.34E+10	4.44E+10
4/29/22	14.42	109	29.781		77.72	6.22	1165.79	8.29E+10	4.41E+10
4/20/22	14.37	110	30.055		77.46	6.20	1161.91	8.26E+10	4.40E+10
4/21/22	14.16	111	30.328		76.33	6.11	1144.98	8.14E+10	4.33E+10
5/20/22	13.98	112	30.601		75.38	6.03	1130.66	8.04E+10	4.28E+10
2/14/22	13.87	113	30.874		74.76	5.98	1121.37	7.97E+10	4.24E+10
5/11/22	13.84	114	31.148		74.62	5.97	1119.24	7.96E+10	4.23E+10
4/30/22	13.72	115	31.421		73.95	5.92	1109.20	7.89E+10	4.20E+10
1/6/22	13.71	116	31.694		73.91	5.91	1108.67	7.88E+10	4.19E+10
5/16/22	13.18	117	31.967		71.03	5.68	1065.46	7.58E+10	4.03E+10
11/28/22	13.01	118	32.240		70.15	5.61	1052.24	7.48E+10	3.98E+10
4/22/22	12.97	119	32.514		69.92	5.59	1048.78	7.46E+10	3.97E+10
4/23/22	12.73	120	32.787		68.60	5.49	1029.03	7.32E+10	3.89E+10

date	S9 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
12/30/22	12.20	121	33.060		65.75	5.26	986.31	7.01E+10	3.73E+10
5/30/22	12.12	122	33.333		65.34	5.23	980.11	6.97E+10	3.71E+10
4/24/22	11.99	123	33.607		64.61	5.17	969.13	6.89E+10	3.67E+10
5/12/22	11.94	124	33.880		64.37	5.15	965.58	6.87E+10	3.65E+10
1/11/22	11.72	125	34.153		63.19	5.06	947.92	6.74E+10	3.59E+10
8/31/22	11.24	126	34.426		60.58	4.85	908.63	6.46E+10	3.44E+10
12/27/22	10.84	127	34.699		58.45	4.68	876.80	6.24E+10	3.32E+10
5/14/22	10.63	128	34.973		57.28	4.58	859.26	6.11E+10	3.25E+10
6/17/22	10.60	129	35.246		57.15	4.57	857.22	6.10E+10	3.24E+10
5/13/22	10.55	130	35.519		56.86	4.55	852.89	6.07E+10	3.23E+10
5/19/22	10.42	131	35.792		56.17	4.49	842.53	5.99E+10	3.19E+10
5/15/22	10.38	132	36.066		55.96	4.48	839.47	5.97E+10	3.18E+10
12/16/22	10.32	133	36.339		55.60	4.45	834.00	5.93E+10	3.15E+10
2/10/22	10.28	134	36.612		55.42	4.43	831.27	5.91E+10	3.14E+10
8/10/22	9.77	135	36.885		52.67	4.21	790.06	5.62E+10	2.99E+10
1/7/22	9.72	136	37.158		52.40	4.19	785.94	5.59E+10	2.97E+10
5/18/22	9.48	137	37.432		51.08	4.09	766.15	5.45E+10	2.90E+10
1/12/22	9.39	138	37.705		50.62	4.05	759.30	5.40E+10	2.87E+10
5/31/22	9.34	139	37.978		50.34	4.03	755.09	5.37E+10	2.86E+10
12/26/22	9.34	140	38.251		50.32	4.03	754.77	5.37E+10	2.85E+10
5/17/22	9.31	141	38.525		50.16	4.01	752.44	5.35E+10	2.85E+10
2/15/22	9.17	142	38.798		49.42	3.95	741.28	5.27E+10	2.80E+10
5/21/22	8.86	143	39.071		47.77	3.82	716.62	5.10E+10	2.71E+10
1/8/22	8.86	144	39.344		47.75	3.82	716.29	5.09E+10	2.71E+10
2/9/22	8.52	145	39.617		45.95	3.68	689.20	4.90E+10	2.61E+10
5/25/22	8.50	146	39.891		45.81	3.66	687.08	4.89E+10	2.60E+10
6/1/22	8.19	147	40.164		44.16	3.53	662.44	4.71E+10	2.51E+10
1/13/22	8.18	148	40.437		44.10	3.53	661.54	4.70E+10	2.50E+10
2/8/22	7.94	149	40.710		42.81	3.42	642.17	4.57E+10	2.43E+10
12/29/22	7.77	150	40.984		41.90	3.35	628.49	4.47E+10	2.38E+10
12/28/22	7.64	151	41.257		41.20	3.30	617.96	4.39E+10	2.34E+10
5/22/22	7.22	152	41.530		38.90	3.11	583.57	4.15E+10	2.21E+10
2/5/22	7.19	153	41.803		38.78	3.10	581.65	4.14E+10	2.20E+10
8/1/22	7.16	154	42.077		38.60	3.09	579.00	4.12E+10	2.19E+10
6/18/22	7.16	155	42.350		38.57	3.09	578.55	4.11E+10	2.19E+10
6/2/22	7.06	156	42.623		38.06	3.05	570.96	4.06E+10	2.16E+10
8/4/22	7.01	157	42.896		37.81	3.02	567.08	4.03E+10	2.15E+10
1/14/22	6.77	158	43.169		36.48	2.92	547.13	3.89E+10	2.07E+10
7/24/22	6.61	159	43.443		35.64	2.85	534.58	3.80E+10	2.02E+10
6/7/22	6.59	160	43.716		35.51	2.84	532.65	3.79E+10	2.01E+10
10/25/22	6.25	161	43.989		33.67	2.69	505.10	3.59E+10	1.91E+10
10/27/22	6.22	162	44.262		33.52	2.68	502.76	3.58E+10	1.90E+10
12/25/22	6.17	163	44.536		33.25	2.66	498.74	3.55E+10	1.89E+10
11/29/22	5.98	164	44.809		32.25	2.58	483.73	3.44E+10	1.83E+10
5/23/22	5.88	165	45.082		31.71	2.54	475.65	3.38E+10	1.80E+10
7/26/22	5.83	166	45.355		31.45	2.52	471.73	3.35E+10	1.78E+10
9/13/22	5.80	167	45.628		31.26	2.50	468.85	3.33E+10	1.77E+10
2/6/22	5.75	168	45.902		30.99	2.48	464.80	3.31E+10	1.76E+10
12/17/22	5.75	169	46.175		30.98	2.48	464.68	3.30E+10	1.76E+10
2/7/22	5.74	170	46.448		30.94	2.48	464.15	3.30E+10	1.76E+10
12/19/22	5.74	171	46.721		30.93	2.47	463.95	3.30E+10	1.75E+10
6/3/22	5.70	172	46.995		30.74	2.46	461.09	3.28E+10	1.74E+10
1/15/22	5.63	173	47.268		30.33	2.43	454.92	3.24E+10	1.72E+10
6/26/22	5.44	174	47.541		29.32	2.35	439.81	3.13E+10	1.66E+10
6/19/22	5.27	175	47.814		28.42	2.27	426.24	3.03E+10	1.61E+10
11/30/22	5.17	176	48.087		27.89	2.23	418.33	2.97E+10	1.58E+10
12/24/22	5.11	177	48.361		27.54	2.20	413.04	2.94E+10	1.56E+10
1/16/22	5.05	178	48.634		27.20	2.18	407.96	2.90E+10	1.54E+10
6/8/22	5.02	179	48.907		27.05	2.16	405.77	2.89E+10	1.53E+10
5/24/22	5.01	180	49.180		27.02	2.16	405.35	2.88E+10	1.53E+10

date	S9 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/6/22	4.92	181	49.454		26.50	2.12	397.50	2.83E+10	1.50E+10
8/11/22	4.86	182	49.727		26.21	2.10	393.18	2.80E+10	1.49E+10
6/11/22	4.84	183	50.000		26.08	2.09	391.17	2.78E+10	1.48E+10
7/27/22	4.60	184	50.273		24.79	1.98	371.82	2.64E+10	1.41E+10
6/4/22	4.58	185	50.546		24.71	1.98	370.60	2.64E+10	1.40E+10
6/9/22	4.55	186	50.820		24.53	1.96	367.88	2.62E+10	1.39E+10
8/2/22	4.42	187	51.093		23.84	1.91	357.57	2.54E+10	1.35E+10
6/10/22	4.29	188	51.366		23.15	1.85	347.18	2.47E+10	1.31E+10
8/5/22	4.28	189	51.639		23.06	1.85	345.97	2.46E+10	1.31E+10
12/23/22	4.24	190	51.913		22.84	1.83	342.67	2.44E+10	1.30E+10
7/28/22	4.22	191	52.186		22.75	1.82	341.32	2.43E+10	1.29E+10
9/1/22	4.19	192	52.459		22.57	1.81	338.48	2.41E+10	1.28E+10
6/20/22	4.13	193	52.732		22.28	1.78	334.22	2.38E+10	1.26E+10
6/5/22	4.12	194	53.005		22.21	1.78	333.11	2.37E+10	1.26E+10
12/14/22	4.08	195	53.279		21.97	1.76	329.51	2.34E+10	1.25E+10
12/18/22	4.07	196	53.552		21.92	1.75	328.87	2.34E+10	1.24E+10
8/29/22	4.05	197	53.825		21.81	1.75	327.22	2.33E+10	1.24E+10
1/17/22	3.84	198	54.098		20.71	1.66	310.61	2.21E+10	1.17E+10
7/9/22	3.81	199	54.372		20.56	1.64	308.33	2.19E+10	1.17E+10
6/21/22	3.64	200	54.645		19.62	1.57	294.25	2.09E+10	1.11E+10
6/27/22	3.53	201	54.918		19.02	1.52	285.37	2.03E+10	1.08E+10
12/21/22	3.51	202	55.191		18.95	1.52	284.18	2.02E+10	1.07E+10
8/12/22	3.49	203	55.464		18.83	1.51	282.48	2.01E+10	1.07E+10
6/22/22	3.46	204	55.738		18.63	1.49	279.44	1.99E+10	1.06E+10
12/1/22	3.29	205	56.011		17.72	1.42	265.73	1.89E+10	1.01E+10
8/14/22	3.28	206	56.284		17.70	1.42	265.57	1.89E+10	1.00E+10
2/1/22	3.23	207	56.557		17.43	1.39	261.51	1.86E+10	9.89E+09
9/14/22	3.23	208	56.831		17.41	1.39	261.17	1.86E+10	9.88E+09
7/29/22	3.23	209	57.104		17.38	1.39	260.76	1.85E+10	9.86E+09
10/28/22	3.16	210	57.377		17.02	1.36	255.36	1.82E+10	9.66E+09
6/23/22	2.92	211	57.650		15.74	1.26	236.08	1.68E+10	8.93E+09
12/20/22	2.92	212	57.923		15.72	1.26	235.84	1.68E+10	8.92E+09
12/22/22	2.90	213	58.197		15.65	1.25	234.82	1.67E+10	8.88E+09
8/21/22	2.88	214	58.470		15.54	1.24	233.11	1.66E+10	8.82E+09
1/18/22	2.84	215	58.743		15.31	1.22	229.66	1.63E+10	8.69E+09
12/10/22	2.82	216	59.016		15.18	1.21	227.67	1.62E+10	8.61E+09
12/2/22	2.72	217	59.290		14.68	1.17	220.20	1.57E+10	8.33E+09
8/15/22	2.70	218	59.563		14.57	1.17	218.49	1.55E+10	8.26E+09
8/3/22	2.68	219	59.836		14.44	1.16	216.65	1.54E+10	8.19E+09
8/13/22	2.63	220	60.109		14.16	1.13	212.36	1.51E+10	8.03E+09
8/20/22	2.62	221	60.383		14.14	1.13	212.14	1.51E+10	8.02E+09
7/30/22	2.53	222	60.656		13.63	1.09	204.40	1.45E+10	7.73E+09
12/3/22	2.52	223	60.929		13.57	1.09	203.50	1.45E+10	7.70E+09
8/16/22	2.47	224	61.202		13.30	1.06	199.56	1.42E+10	7.55E+09
7/8/22	2.46	225	61.475		13.26	1.06	198.87	1.41E+10	7.52E+09
9/2/22	2.44	226	61.749		13.13	1.05	196.91	1.40E+10	7.45E+09
7/10/22	2.41	227	62.022		12.96	1.04	194.45	1.38E+10	7.36E+09
8/23/22	2.38	228	62.295		12.83	1.03	192.49	1.37E+10	7.28E+09
9/19/22	2.38	229	62.568		12.81	1.02	192.11	1.37E+10	7.27E+09
1/31/22	2.34	230	62.842		12.62	1.01	189.31	1.35E+10	7.16E+09
12/7/22	2.33	231	63.115		12.54	1.00	188.05	1.34E+10	7.11E+09
10/29/22	2.30	232	63.388		12.38	0.99	185.75	1.32E+10	7.03E+09
10/18/22	2.30	233	63.661		12.37	0.99	185.61	1.32E+10	7.02E+09
12/6/22	2.27	234	63.934		12.26	0.98	183.93	1.31E+10	6.96E+09
12/9/22	2.26	235	64.208		12.19	0.97	182.80	1.30E+10	6.91E+09
12/11/22	2.26	236	64.481		12.17	0.97	182.57	1.30E+10	6.91E+09
10/19/22	2.26	237	64.754		12.17	0.97	182.49	1.30E+10	6.90E+09
12/5/22	2.25	238	65.027		12.15	0.97	182.20	1.30E+10	6.89E+09
9/15/22	2.21	239	65.301		11.89	0.95	178.42	1.27E+10	6.75E+09
12/4/22	2.20	240	65.574		11.84	0.95	177.53	1.26E+10	6.72E+09

date	S9 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/24/22	2.18	241	65.847		11.77	0.94	176.59	1.26E+10	6.68E+09
12/8/22	2.17	242	66.120		11.68	0.93	175.16	1.25E+10	6.63E+09
6/28/22	2.16	243	66.393		11.65	0.93	174.78	1.24E+10	6.61E+09
8/22/22	2.15	244	66.667		11.56	0.93	173.46	1.23E+10	6.56E+09
11/13/22	2.12	245	66.940		11.40	0.91	171.06	1.22E+10	6.47E+09
1/19/22	2.11	246	67.213		11.38	0.91	170.64	1.21E+10	6.45E+09
12/12/22	2.10	247	67.486		11.34	0.91	170.08	1.21E+10	6.43E+09
10/31/22	2.03	248	67.760		10.96	0.88	164.45	1.17E+10	6.22E+09
9/24/22	2.03	249	68.033		10.92	0.87	163.79	1.16E+10	6.20E+09
12/13/22	2.01	250	68.306		10.84	0.87	162.55	1.16E+10	6.15E+09
1/30/22	2.01	251	68.579		10.82	0.87	162.29	1.15E+10	6.14E+09
11/4/22	2.00	252	68.852		10.79	0.86	161.87	1.15E+10	6.12E+09
11/6/22	1.96	253	69.126		10.55	0.84	158.20	1.13E+10	5.98E+09
9/3/22	1.96	254	69.399		10.54	0.84	158.15	1.12E+10	5.98E+09
8/19/22	1.95	255	69.672		10.53	0.84	157.91	1.12E+10	5.97E+09
6/25/22	1.95	256	69.945		10.52	0.84	157.85	1.12E+10	5.97E+09
11/5/22	1.95	257	70.219		10.51	0.84	157.69	1.12E+10	5.96E+09
10/13/22	1.94	258	70.492		10.48	0.84	157.17	1.12E+10	5.94E+09
10/30/22	1.93	259	70.765		10.43	0.83	156.43	1.11E+10	5.92E+09
10/15/22	1.92	260	71.038		10.33	0.83	155.00	1.10E+10	5.86E+09
1/29/22	1.91	261	71.311		10.31	0.83	154.72	1.10E+10	5.85E+09
1/20/22	1.89	262	71.585		10.20	0.82	153.02	1.09E+10	5.79E+09
10/14/22	1.89	263	71.858		10.18	0.81	152.74	1.09E+10	5.78E+09
11/16/22	1.89	264	72.131		10.16	0.81	152.45	1.08E+10	5.77E+09
7/1/22	1.87	265	72.404		10.10	0.81	151.47	1.08E+10	5.73E+09
1/28/22	1.87	266	72.678		10.06	0.80	150.93	1.07E+10	5.71E+09
6/29/22	1.85	267	72.951		9.96	0.80	149.46	1.06E+10	5.65E+09
11/1/22	1.84	268	73.224		9.92	0.79	148.87	1.06E+10	5.63E+09
1/24/22	1.83	269	73.497		9.84	0.79	147.66	1.05E+10	5.59E+09
1/25/22	1.83	270	73.770		9.84	0.79	147.66	1.05E+10	5.59E+09
1/26/22	1.83	271	74.044		9.84	0.79	147.66	1.05E+10	5.59E+09
1/27/22	1.83	272	74.317		9.84	0.79	147.66	1.05E+10	5.59E+09
1/21/22	1.78	273	74.590		9.61	0.77	144.14	1.03E+10	5.45E+09
1/23/22	1.77	274	74.863		9.51	0.76	142.70	1.01E+10	5.40E+09
11/19/22	1.76	275	75.137		9.50	0.76	142.55	1.01E+10	5.39E+09
9/16/22	1.76	276	75.410		9.47	0.76	142.04	1.01E+10	5.37E+09
11/14/22	1.76	277	75.683		9.46	0.76	141.92	1.01E+10	5.37E+09
10/16/22	1.75	278	75.956		9.46	0.76	141.84	1.01E+10	5.37E+09
11/15/22	1.75	279	76.230		9.45	0.76	141.71	1.01E+10	5.36E+09
1/22/22	1.74	280	76.503		9.39	0.75	140.88	1.00E+10	5.33E+09
11/17/22	1.73	281	76.776		9.34	0.75	140.04	9.96E+09	5.30E+09
7/11/22	1.72	282	77.049		9.28	0.74	139.13	9.89E+09	5.26E+09
11/18/22	1.71	283	77.322		9.22	0.74	138.24	9.83E+09	5.23E+09
11/2/22	1.71	284	77.596		9.20	0.74	137.96	9.81E+09	5.22E+09
9/20/22	1.71	285	77.869		9.20	0.74	137.93	9.81E+09	5.22E+09
11/12/22	1.70	286	78.142		9.14	0.73	137.09	9.75E+09	5.19E+09
8/17/22	1.66	287	78.415		8.97	0.72	134.53	9.57E+09	5.09E+09
11/10/22	1.65	288	78.689		8.87	0.71	133.12	9.47E+09	5.04E+09
10/17/22	1.64	289	78.962		8.85	0.71	132.74	9.44E+09	5.02E+09
11/3/22	1.64	290	79.235		8.84	0.71	132.56	9.43E+09	5.01E+09
6/30/22	1.62	291	79.508		8.71	0.70	130.58	9.29E+09	4.94E+09
8/24/22	1.59	292	79.781		8.60	0.69	128.95	9.17E+09	4.88E+09
11/20/22	1.57	293	80.055		8.47	0.68	127.04	9.03E+09	4.81E+09
11/23/22	1.57	294	80.328		8.47	0.68	127.03	9.03E+09	4.80E+09
11/7/22	1.57	295	80.601		8.45	0.68	126.74	9.01E+09	4.79E+09
11/24/22	1.56	296	80.874		8.40	0.67	125.98	8.96E+09	4.77E+09
11/25/22	1.53	297	81.148		8.26	0.66	123.87	8.81E+09	4.69E+09
11/11/22	1.52	298	81.421		8.22	0.66	123.26	8.77E+09	4.66E+09
9/25/22	1.52	299	81.694		8.18	0.65	122.74	8.73E+09	4.64E+09
11/22/22	1.51	300	81.967		8.16	0.65	122.42	8.71E+09	4.63E+09

date	S9 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
11/8/22	1.51	301	82.240		8.13	0.65	121.97	8.67E+09	4.61E+09
10/12/22	1.50	302	82.514		8.10	0.65	121.45	8.64E+09	4.59E+09
8/6/22	1.50	303	82.787		8.07	0.65	121.02	8.61E+09	4.58E+09
11/21/22	1.48	304	83.060		7.96	0.64	119.41	8.49E+09	4.52E+09
9/22/22	1.47	305	83.333		7.94	0.64	119.09	8.47E+09	4.50E+09
8/27/22	1.40	306	83.607		7.56	0.61	113.45	8.07E+09	4.29E+09
11/26/22	1.39	307	83.880		7.47	0.60	112.01	7.97E+09	4.24E+09
9/23/22	1.38	308	84.153		7.44	0.60	111.59	7.94E+09	4.22E+09
9/17/22	1.36	309	84.426		7.33	0.59	109.89	7.81E+09	4.16E+09
8/8/22	1.36	310	84.699		7.32	0.59	109.83	7.81E+09	4.15E+09
8/7/22	1.34	311	84.973		7.24	0.58	108.60	7.72E+09	4.11E+09
10/20/22	1.32	312	85.246		7.11	0.57	106.59	7.58E+09	4.03E+09
9/4/22	1.32	313	85.519		7.09	0.57	106.33	7.56E+09	4.02E+09
7/18/22	1.31	314	85.792		7.05	0.56	105.75	7.52E+09	4.00E+09
9/21/22	1.29	315	86.066		6.96	0.56	104.47	7.43E+09	3.95E+09
7/2/22	1.26	316	86.339		6.81	0.55	102.21	7.27E+09	3.87E+09
9/26/22	1.24	317	86.612		6.70	0.54	100.49	7.15E+09	3.80E+09
7/19/22	1.24	318	86.885		6.69	0.53	100.29	7.13E+09	3.79E+09
9/18/22	1.23	319	87.158		6.61	0.53	99.22	7.06E+09	3.75E+09
9/5/22	1.22	320	87.432		6.55	0.52	98.29	6.99E+09	3.72E+09
9/27/22	1.15	321	87.705		6.22	0.50	93.25	6.63E+09	3.53E+09
10/24/22	1.12	322	87.978		6.03	0.48	90.41	6.43E+09	3.42E+09
7/12/22	1.06	323	88.251		5.71	0.46	85.66	6.09E+09	3.24E+09
7/3/22	1.03	324	88.525		5.53	0.44	82.88	5.89E+09	3.13E+09
7/31/22	1.00	325	88.798		5.38	0.43	80.71	5.74E+09	3.05E+09
9/6/22	0.98	326	89.071		5.28	0.42	79.16	5.63E+09	2.99E+09
10/4/22	0.97	327	89.344		5.22	0.42	78.34	5.57E+09	2.96E+09
8/18/22	0.95	328	89.617		5.10	0.41	76.44	5.44E+09	2.89E+09
9/29/22	0.84	329	89.891		4.54	0.36	68.05	4.84E+09	2.57E+09
10/10/22	0.82	330	90.164		4.44	0.35	66.54	4.73E+09	2.52E+09
7/4/22	0.79	331	90.437		4.24	0.34	63.62	4.52E+09	2.41E+09
10/9/22	0.78	332	90.710		4.21	0.34	63.12	4.49E+09	2.39E+09
8/25/22	0.77	333	90.984		4.15	0.33	62.21	4.42E+09	2.35E+09
9/7/22	0.74	334	91.257		4.00	0.32	60.03	4.27E+09	2.27E+09
10/11/22	0.65	335	91.530		3.49	0.28	52.29	3.72E+09	1.98E+09
11/9/22	0.64	336	91.803		3.46	0.28	51.96	3.69E+09	1.97E+09
10/5/22	0.56	337	92.077		3.04	0.24	45.59	3.24E+09	1.72E+09
9/28/22	0.52	338	92.350		2.80	0.22	41.95	2.98E+09	1.59E+09
10/23/22	0.50	339	92.623		2.69	0.22	40.37	2.87E+09	1.53E+09
10/1/22	0.46	340	92.896		2.47	0.20	37.10	2.64E+09	1.40E+09
10/8/22	0.43	341	93.169		2.31	0.18	34.59	2.46E+09	1.31E+09
7/17/22	0.41	342	93.443		2.19	0.17	32.79	2.33E+09	1.24E+09
10/21/22	0.41	343	93.716		2.19	0.17	32.79	2.33E+09	1.24E+09
7/6/22	0.39	344	93.989		2.11	0.17	31.61	2.25E+09	1.20E+09
7/7/22	0.39	345	94.262		2.10	0.17	31.53	2.24E+09	1.19E+09
8/28/22	0.31	346	94.536		1.68	0.13	25.27	1.80E+09	9.56E+08
9/8/22	0.30	347	94.809		1.61	0.13	24.12	1.72E+09	9.12E+08
10/3/22	0.27	348	95.082		1.47	0.12	22.08	1.57E+09	8.35E+08
9/30/22	0.27	349	95.355		1.44	0.11	21.53	1.53E+09	8.14E+08
9/10/22	0.25	350	95.628		1.36	0.11	20.47	1.46E+09	7.74E+08
7/22/22	0.23	351	95.902		1.26	0.10	18.87	1.34E+09	7.14E+08
7/21/22	0.23	352	96.175		1.23	0.10	18.46	1.31E+09	6.98E+08
7/14/22	0.23	353	96.448		1.21	0.10	18.20	1.29E+09	6.88E+08
10/7/22	0.22	354	96.721		1.21	0.10	18.09	1.29E+09	6.84E+08
7/23/22	0.22	355	96.995		1.19	0.10	17.92	1.27E+09	6.78E+08
8/26/22	0.22	356	97.268		1.19	0.10	17.87	1.27E+09	6.76E+08
7/16/22	0.21	357	97.541		1.12	0.09	16.78	1.19E+09	6.35E+08
10/22/22	0.20	358	97.814		1.07	0.09	16.03	1.14E+09	6.07E+08
7/13/22	0.20	359	98.087		1.07	0.09	16.01	1.14E+09	6.06E+08
10/6/22	0.19	360	98.361		1.01	0.08	15.19	1.08E+09	5.75E+08

date	S9 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
7/5/22	0.17	361	98.634		0.93	0.07	14.02	9.97E+08	5.30E+08
7/20/22	0.15	362	98.907		0.83	0.07	12.46	8.86E+08	4.71E+08
10/2/22	0.13	363	99.180		0.72	0.06	10.85	7.72E+08	4.11E+08
7/15/22	0.13	364	99.454		0.70	0.06	10.51	7.48E+08	3.98E+08
9/9/22	0.07	365	99.727		0.35	0.03	5.28	3.76E+08	2.00E+08
	0.00								
<b>TOTAL NUMBER</b>	365								
					1.00	0.08	15.00	235.00	125.00
					5.39	5.39	5.39	24465758.40	24465758.40

Date	Flow	NO3_N (mg/L)	TP (mg/L)	TSS (mg/L)	Ecoli (col/100 mL)
1/26/22	1.83	10.1	0.121	2	104.3
2/23/22	77.68	7.45	0.875	39	378.4
3/23/22	219.11	9.62	0.599	37	1119.7
4/27/22	20.43	8.23	0.199	3	66.3
5/24/22	5.01	7.73	0.337	3	48.1
6/27/22	3.53	3.59	0.086	5	222.4
7/25/22	4.60	0.528	1.79	5	248.1
8/22/22	2.15	0.204	0.129	1	48
9/28/22	0.52	0.158	0.027	6	21.1
10/24/22	1.12	0.235	0.129	8	10.2
11/16/22	1.89	0.321	0.11	6	62.1
12/21/22	3.51	0.364	0.015	3	20.3
1/25/23					

Date	% Flow Exceed		NO3 Act Load	TP Act Load	TSS Act Load	Ecoli Act Load
1/26/22	74.04371585		99.42771755	1.19116374	19.68865694	4.66E+09
2/23/22	3.551912568		3119.311151	366.362048	16329.27985	7.19E+11
3/23/22	1.092896175		11361.30978	707.424591	43697.34532	6.00E+12
4/27/22	21.03825137		906.3354054	21.9150359	330.377426	3.31E+10
5/24/22	49.18032787		208.8894502	9.10682338	81.06964433	5.90E+09
6/27/22	54.91803279		68.29866544	1.63612402	95.12348947	1.92E+10
7/25/22	21.8579235		13.08817718	44.3709037	123.9410718	2.79E+10
8/22/22	66.66666667		2.359041867	1.49174706	11.56393072	2.52E+09
9/28/22	92.34972678		0.441840945	0.07550447	16.77877006	2.68E+08
10/24/22	87.97814208		1.416418311	0.77752324	48.2184957	2.79E+08
11/16/22	72.13114754		3.262534815	1.11800258	60.98195915	2.86E+09
12/21/22	55.19125683		6.8961784	0.28418318	56.83663516	1.75E+09
1/25/23						



Date	Ann Load Proxy Range		NO3 Ann Load	TP Ann Load
1/26/22		28	2783.976091	33.35258486
2/23/22		28	87340.71222	10258.13734
3/23/22		35	397645.8425	24759.86067
4/27/22		27	24471.05595	591.70597
5/24/22		34	7102.241307	309.6319949
6/27/22		28	1912.362632	45.81147253
7/25/22		28	366.4689611	1242.385304
8/22/22		37	87.28454906	55.19464132
9/28/22		26	11.48786457	1.963116097
10/24/22		23	32.57762116	17.88303459
11/16/22		35	114.1887185	39.13009046
12/21/22		35	241.366244	9.946411153
1/25/23				

Date	TSS Ann Load	Ecoli Ann Load
1/26/22	551.2823943	1.30E+11
2/23/22	457219.8358	2.01E+13
3/23/22	1529407.086	2.10E+14
4/27/22	8920.190503	8.95E+11
5/24/22	2756.367907	2.01E+11
6/27/22	2663.457705	5.38E+11
7/25/22	3470.350011	7.82E+11
8/22/22	427.8654366	9.32E+10
9/28/22	436.2480215	6.96E+09
10/24/22	1109.025401	6.42E+09
11/16/22	2134.36857	1.00E+11
12/21/22	1989.282231	6.11E+10
1/25/23		

date	S10 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
2/17/22	421.67	1	0.273		2272.80	181.82	34092.07	2.42E+12	1.29E+12
3/7/22	289.36	2	0.546		1559.67	124.77	23395.08	1.66E+12	8.85E+11
2/18/22	204.14	3	0.820		1100.32	88.03	16504.73	1.17E+12	6.24E+11
3/23/22	188.83	4	1.093		1017.78	81.42	15266.70	1.09E+12	5.77E+11
5/1/22	124.32	5	1.366		670.08	53.61	10051.15	7.15E+11	3.80E+11
3/8/22	113.36	6	1.639		611.01	48.88	9165.15	6.52E+11	3.47E+11
2/22/22	93.45	7	1.913		503.72	40.30	7555.82	5.37E+11	2.86E+11
2/16/22	83.02	8	2.186		447.48	35.80	6712.26	4.77E+11	2.54E+11
3/24/22	80.79	9	2.459		435.44	34.84	6531.57	4.64E+11	2.47E+11
5/6/22	77.15	10	2.732		415.84	33.27	6237.62	4.44E+11	2.36E+11
1/2/22	73.67	11	3.005		397.09	31.77	5956.33	4.24E+11	2.25E+11
2/19/22	70.55	12	3.279		380.28	30.42	5704.22	4.06E+11	2.16E+11
2/23/22	66.94	13	3.552		360.83	28.87	5412.45	3.85E+11	2.05E+11
8/30/22	65.77	14	3.825		354.51	28.36	5317.62	3.78E+11	2.01E+11
2/2/22	65.26	15	4.098		351.74	28.14	5276.11	3.75E+11	2.00E+11
5/7/22	62.29	16	4.372		335.76	26.86	5036.33	3.58E+11	1.91E+11
5/4/22	57.13	17	4.645		307.92	24.63	4618.76	3.28E+11	1.75E+11
3/9/22	56.35	18	4.918		303.70	24.30	4555.50	3.24E+11	1.72E+11
6/12/22	55.50	19	5.191		299.13	23.93	4486.94	3.19E+11	1.70E+11
6/13/22	52.70	20	5.464		284.05	22.72	4260.81	3.03E+11	1.61E+11
5/2/22	46.50	21	5.738		250.65	20.05	3759.80	2.67E+11	1.42E+11
4/14/22	45.88	22	6.011		247.29	19.78	3709.31	2.64E+11	1.40E+11
5/27/22	45.49	23	6.284		245.22	19.62	3678.23	2.62E+11	1.39E+11
5/3/22	44.59	24	6.557		240.36	19.23	3605.34	2.56E+11	1.36E+11
6/14/22	43.99	25	6.831		237.11	18.97	3556.60	2.53E+11	1.35E+11
3/25/22	43.90	26	7.104		236.63	18.93	3549.50	2.52E+11	1.34E+11
2/21/22	43.02	27	7.377		231.90	18.55	3478.48	2.47E+11	1.32E+11
2/20/22	42.18	28	7.650		227.35	18.19	3410.30	2.43E+11	1.29E+11
3/22/22	40.86	29	7.923		220.25	17.62	3303.79	2.35E+11	1.25E+11
2/3/22	38.56	30	8.197		207.83	16.63	3117.47	2.22E+11	1.18E+11
1/1/22	37.97	31	8.470		204.65	16.37	3069.69	2.18E+11	1.16E+11
5/5/22	36.06	32	8.743		194.39	15.55	2915.79	2.07E+11	1.10E+11
3/10/22	35.87	33	9.016		193.34	15.47	2900.14	2.06E+11	1.10E+11
12/31/22	35.55	34	9.290		191.59	15.33	2873.88	2.04E+11	1.09E+11
3/26/22	33.77	35	9.563		182.03	14.56	2730.38	1.94E+11	1.03E+11
4/25/22	33.72	36	9.836		181.75	14.54	2726.30	1.94E+11	1.03E+11
2/24/22	33.57	37	10.109		180.92	14.47	2713.79	1.93E+11	1.03E+11
2/12/22	32.83	38	10.383		176.98	14.16	2654.68	1.89E+11	1.00E+11
1/3/22	32.49	39	10.656		175.13	14.01	2627.01	1.87E+11	9.94E+10
5/26/22	31.91	40	10.929		172.00	13.76	2579.93	1.83E+11	9.76E+10
9/11/22	30.89	41	11.202		166.52	13.32	2497.75	1.78E+11	9.45E+10
5/8/22	28.80	42	11.475		155.21	12.42	2328.10	1.66E+11	8.81E+10
3/11/22	28.43	43	11.749		153.22	12.26	2298.25	1.63E+11	8.69E+10
4/7/22	28.03	44	12.022		151.09	12.09	2266.39	1.61E+11	8.57E+10
4/15/22	27.76	45	12.295		149.62	11.97	2244.35	1.60E+11	8.49E+10
1/9/22	27.74	46	12.568		149.53	11.96	2242.98	1.60E+11	8.48E+10
4/26/22	27.29	47	12.842		147.11	11.77	2206.62	1.57E+11	8.35E+10
3/19/22	26.97	48	13.115		145.36	11.63	2180.46	1.55E+11	8.25E+10
3/27/22	26.40	49	13.388		142.28	11.38	2134.26	1.52E+11	8.07E+10
2/25/22	26.29	50	13.661		141.71	11.34	2125.61	1.51E+11	8.04E+10
3/1/22	25.41	51	13.934		136.98	10.96	2054.69	1.46E+11	7.77E+10
3/20/22	24.65	52	14.208		132.84	10.63	1992.56	1.42E+11	7.54E+10
2/28/22	24.43	53	14.481		131.66	10.53	1974.87	1.40E+11	7.47E+10
2/27/22	23.47	54	14.754		126.48	10.12	1897.27	1.35E+11	7.18E+10
10/26/22	23.30	55	15.027		125.61	10.05	1884.13	1.34E+11	7.13E+10
3/2/22	22.85	56	15.301		123.15	9.85	1847.31	1.31E+11	6.99E+10
4/6/22	22.84	57	15.574		123.10	9.85	1846.57	1.31E+11	6.98E+10
5/28/22	22.82	58	15.847		123.02	9.84	1845.30	1.31E+11	6.98E+10
8/9/22	22.29	59	16.120		120.15	9.61	1802.22	1.28E+11	6.82E+10
3/12/22	22.00	60	16.393		118.60	9.49	1779.06	1.27E+11	6.73E+10

date	S10 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
3/28/22	21.26	61	16.667		114.60	9.17	1719.07	1.22E+11	6.50E+10
4/8/22	21.24	62	16.940		114.46	9.16	1716.86	1.22E+11	6.49E+10
2/26/22	21.10	63	17.213		113.71	9.10	1705.64	1.21E+11	6.45E+10
1/4/22	21.06	64	17.486		113.50	9.08	1702.55	1.21E+11	6.44E+10
12/15/22	20.43	65	17.760		110.14	8.81	1652.13	1.17E+11	6.25E+10
3/31/22	20.24	66	18.033		109.11	8.73	1636.62	1.16E+11	6.19E+10
3/21/22	20.20	67	18.306		108.86	8.71	1632.86	1.16E+11	6.18E+10
4/16/22	20.16	68	18.579		108.64	8.69	1629.66	1.16E+11	6.16E+10
6/15/22	19.56	69	18.852		105.42	8.43	1581.31	1.12E+11	5.98E+10
5/9/22	19.30	70	19.126		104.03	8.32	1560.39	1.11E+11	5.90E+10
4/9/22	18.89	71	19.399		101.79	8.14	1526.92	1.09E+11	5.78E+10
11/27/22	18.74	72	19.672		100.99	8.08	1514.83	1.08E+11	5.73E+10
3/3/22	18.40	73	19.945		99.19	7.94	1487.89	1.06E+11	5.63E+10
3/29/22	18.40	74	20.219		99.19	7.94	1487.85	1.06E+11	5.63E+10
4/13/22	18.29	75	20.492		98.56	7.88	1478.35	1.05E+11	5.59E+10
2/13/22	17.63	76	20.765		95.01	7.60	1425.12	1.01E+11	5.39E+10
4/27/22	17.61	77	21.038		94.91	7.59	1423.58	1.01E+11	5.38E+10
3/13/22	17.60	78	21.311		94.87	7.59	1422.98	1.01E+11	5.38E+10
3/30/22	17.29	79	21.585		93.22	7.46	1398.30	9.94E+10	5.29E+10
7/25/22	16.94	80	21.858		91.29	7.30	1369.29	9.74E+10	5.18E+10
1/5/22	16.78	81	22.131		90.42	7.23	1356.35	9.65E+10	5.13E+10
2/11/22	16.41	82	22.404		88.47	7.08	1327.09	9.44E+10	5.02E+10
3/6/22	16.22	83	22.678		87.41	6.99	1311.13	9.32E+10	4.96E+10
3/14/22	16.20	84	22.951		87.30	6.98	1309.44	9.31E+10	4.95E+10
1/10/22	16.19	85	23.224		87.29	6.98	1309.34	9.31E+10	4.95E+10
4/10/22	16.03	86	23.497		86.38	6.91	1295.77	9.21E+10	4.90E+10
4/1/22	15.97	87	23.770		86.07	6.89	1291.09	9.18E+10	4.88E+10
2/4/22	15.65	88	24.044		84.36	6.75	1265.43	9.00E+10	4.79E+10
4/17/22	15.62	89	24.317		84.22	6.74	1263.28	8.98E+10	4.78E+10
4/18/22	15.31	90	24.590		82.52	6.60	1237.82	8.80E+10	4.68E+10
3/4/22	15.04	91	24.863		81.04	6.48	1215.63	8.64E+10	4.60E+10
3/15/22	14.85	92	25.137		80.02	6.40	1200.30	8.54E+10	4.54E+10
4/11/22	14.78	93	25.410		79.66	6.37	1194.92	8.50E+10	4.52E+10
5/10/22	14.54	94	25.683		78.38	6.27	1175.72	8.36E+10	4.45E+10
5/29/22	14.36	95	25.956		77.42	6.19	1161.31	8.26E+10	4.39E+10
4/19/22	14.35	96	26.230		77.36	6.19	1160.46	8.25E+10	4.39E+10
4/2/22	14.15	97	26.503		76.27	6.10	1144.01	8.14E+10	4.33E+10
3/18/22	14.10	98	26.776		76.01	6.08	1140.11	8.11E+10	4.31E+10
4/28/22	14.08	99	27.049		75.91	6.07	1138.66	8.10E+10	4.31E+10
3/5/22	13.87	100	27.322		74.77	5.98	1121.51	7.98E+10	4.24E+10
3/16/22	13.86	101	27.596		74.73	5.98	1120.94	7.97E+10	4.24E+10
4/3/22	13.51	102	27.869		72.82	5.83	1092.32	7.77E+10	4.13E+10
4/5/22	13.49	103	28.142		72.70	5.82	1090.56	7.76E+10	4.13E+10
4/12/22	13.29	104	28.415		71.61	5.73	1074.14	7.64E+10	4.06E+10
3/17/22	12.91	105	28.689		69.60	5.57	1043.94	7.42E+10	3.95E+10
9/12/22	12.80	106	28.962		68.98	5.52	1034.66	7.36E+10	3.91E+10
4/4/22	12.68	107	29.235		68.37	5.47	1025.48	7.29E+10	3.88E+10
6/16/22	12.50	108	29.508		67.40	5.39	1010.96	7.19E+10	3.82E+10
4/29/22	12.43	109	29.781		66.98	5.36	1004.66	7.14E+10	3.80E+10
4/20/22	12.38	110	30.055		66.75	5.34	1001.32	7.12E+10	3.79E+10
4/21/22	12.20	111	30.328		65.78	5.26	986.73	7.02E+10	3.73E+10
5/20/22	12.05	112	30.601		64.96	5.20	974.39	6.93E+10	3.69E+10
2/14/22	11.95	113	30.874		64.43	5.15	966.39	6.87E+10	3.66E+10
5/11/22	11.93	114	31.148		64.30	5.14	964.55	6.86E+10	3.65E+10
4/30/22	11.82	115	31.421		63.73	5.10	955.90	6.80E+10	3.62E+10
1/6/22	11.82	116	31.694		63.70	5.10	955.44	6.79E+10	3.61E+10
5/16/22	11.36	117	31.967		61.21	4.90	918.20	6.53E+10	3.47E+10
11/28/22	11.22	118	32.240		60.45	4.84	906.81	6.45E+10	3.43E+10
4/22/22	11.18	119	32.514		60.25	4.82	903.82	6.43E+10	3.42E+10
4/23/22	10.97	120	32.787		59.12	4.73	886.80	6.31E+10	3.35E+10

date	S10 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
12/30/22	10.51	121	33.060		56.67	4.53	849.99	6.04E+10	3.22E+10
5/30/22	10.45	122	33.333		56.31	4.50	844.65	6.01E+10	3.19E+10
4/24/22	10.33	123	33.607		55.68	4.45	835.19	5.94E+10	3.16E+10
5/12/22	10.29	124	33.880		55.48	4.44	832.13	5.92E+10	3.15E+10
1/11/22	10.10	125	34.153		54.46	4.36	816.90	5.81E+10	3.09E+10
8/31/22	9.69	126	34.426		52.20	4.18	783.04	5.57E+10	2.96E+10
12/27/22	9.35	127	34.699		50.37	4.03	755.62	5.37E+10	2.86E+10
5/14/22	9.16	128	34.973		49.37	3.95	740.50	5.27E+10	2.80E+10
6/17/22	9.14	129	35.246		49.25	3.94	738.74	5.25E+10	2.79E+10
5/13/22	9.09	130	35.519		49.00	3.92	735.01	5.23E+10	2.78E+10
5/19/22	8.98	131	35.792		48.41	3.87	726.08	5.16E+10	2.75E+10
5/15/22	8.95	132	36.066		48.23	3.86	723.44	5.14E+10	2.74E+10
12/16/22	8.89	133	36.339		47.92	3.83	718.73	5.11E+10	2.72E+10
2/10/22	8.86	134	36.612		47.76	3.82	716.38	5.09E+10	2.71E+10
8/10/22	8.42	135	36.885		45.39	3.63	680.86	4.84E+10	2.58E+10
1/7/22	8.38	136	37.158		45.15	3.61	677.31	4.82E+10	2.56E+10
5/18/22	8.17	137	37.432		44.02	3.52	660.26	4.70E+10	2.50E+10
1/12/22	8.09	138	37.705		43.62	3.49	654.35	4.65E+10	2.48E+10
5/31/22	8.05	139	37.978		43.38	3.47	650.73	4.63E+10	2.46E+10
12/26/22	8.05	140	38.251		43.36	3.47	650.45	4.63E+10	2.46E+10
5/17/22	8.02	141	38.525		43.23	3.46	648.45	4.61E+10	2.45E+10
2/15/22	7.90	142	38.798		42.59	3.41	638.83	4.54E+10	2.42E+10
5/21/22	7.64	143	39.071		41.17	3.29	617.57	4.39E+10	2.34E+10
1/8/22	7.64	144	39.344		41.15	3.29	617.29	4.39E+10	2.33E+10
2/9/22	7.35	145	39.617		39.60	3.17	593.95	4.22E+10	2.25E+10
5/25/22	7.32	146	39.891		39.47	3.16	592.12	4.21E+10	2.24E+10
6/1/22	7.06	147	40.164		38.06	3.04	570.88	4.06E+10	2.16E+10
1/13/22	7.05	148	40.437		38.01	3.04	570.11	4.05E+10	2.16E+10
2/8/22	6.84	149	40.710		36.89	2.95	553.41	3.94E+10	2.09E+10
12/29/22	6.70	150	40.984		36.11	2.89	541.63	3.85E+10	2.05E+10
12/28/22	6.59	151	41.257		35.50	2.84	532.55	3.79E+10	2.01E+10
5/22/22	6.22	152	41.530		33.53	2.68	502.91	3.58E+10	1.90E+10
2/5/22	6.20	153	41.803		33.42	2.67	501.26	3.56E+10	1.90E+10
8/1/22	6.17	154	42.077		33.27	2.66	498.98	3.55E+10	1.89E+10
6/18/22	6.17	155	42.350		33.24	2.66	498.59	3.55E+10	1.89E+10
6/2/22	6.09	156	42.623		32.80	2.62	492.05	3.50E+10	1.86E+10
8/4/22	6.04	157	42.896		32.58	2.61	488.70	3.48E+10	1.85E+10
1/14/22	5.83	158	43.169		31.43	2.51	471.51	3.35E+10	1.78E+10
7/24/22	5.70	159	43.443		30.71	2.46	460.70	3.28E+10	1.74E+10
6/7/22	5.68	160	43.716		30.60	2.45	459.03	3.26E+10	1.74E+10
10/25/22	5.38	161	43.989		29.02	2.32	435.29	3.10E+10	1.65E+10
10/27/22	5.36	162	44.262		28.89	2.31	433.28	3.08E+10	1.64E+10
12/25/22	5.32	163	44.536		28.65	2.29	429.81	3.06E+10	1.63E+10
11/29/22	5.16	164	44.809		27.79	2.22	416.87	2.96E+10	1.58E+10
5/23/22	5.07	165	45.082		27.33	2.19	409.91	2.91E+10	1.55E+10
7/26/22	5.03	166	45.355		27.10	2.17	406.53	2.89E+10	1.54E+10
9/13/22	5.00	167	45.628		26.94	2.15	404.05	2.87E+10	1.53E+10
2/6/22	4.95	168	45.902		26.70	2.14	400.56	2.85E+10	1.52E+10
12/17/22	4.95	169	46.175		26.70	2.14	400.45	2.85E+10	1.51E+10
2/7/22	4.95	170	46.448		26.67	2.13	400.00	2.84E+10	1.51E+10
12/19/22	4.95	171	46.721		26.65	2.13	399.82	2.84E+10	1.51E+10
6/3/22	4.91	172	46.995		26.49	2.12	397.36	2.83E+10	1.50E+10
1/15/22	4.85	173	47.268		26.14	2.09	392.05	2.79E+10	1.48E+10
6/26/22	4.69	174	47.541		25.27	2.02	379.03	2.70E+10	1.43E+10
6/19/22	4.54	175	47.814		24.49	1.96	367.33	2.61E+10	1.39E+10
11/30/22	4.46	176	48.087		24.03	1.92	360.51	2.56E+10	1.36E+10
12/24/22	4.40	177	48.361		23.73	1.90	355.95	2.53E+10	1.35E+10
1/16/22	4.35	178	48.634		23.44	1.88	351.58	2.50E+10	1.33E+10
6/8/22	4.33	179	48.907		23.31	1.87	349.69	2.49E+10	1.32E+10
5/24/22	4.32	180	49.180		23.29	1.86	349.32	2.48E+10	1.32E+10

date	S10 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/6/22	4.24	181	49.454		22.84	1.83	342.56	2.44E+10	1.30E+10
8/11/22	4.19	182	49.727		22.59	1.81	338.84	2.41E+10	1.28E+10
6/11/22	4.17	183	50.000		22.47	1.80	337.10	2.40E+10	1.28E+10
7/27/22	3.96	184	50.273		21.36	1.71	320.43	2.28E+10	1.21E+10
6/4/22	3.95	185	50.546		21.29	1.70	319.38	2.27E+10	1.21E+10
6/9/22	3.92	186	50.820		21.14	1.69	317.04	2.25E+10	1.20E+10
8/2/22	3.81	187	51.093		20.54	1.64	308.15	2.19E+10	1.17E+10
6/10/22	3.70	188	51.366		19.95	1.60	299.20	2.13E+10	1.13E+10
8/5/22	3.69	189	51.639		19.88	1.59	298.15	2.12E+10	1.13E+10
12/23/22	3.65	190	51.913		19.69	1.58	295.31	2.10E+10	1.12E+10
7/28/22	3.64	191	52.186		19.61	1.57	294.15	2.09E+10	1.11E+10
9/1/22	3.61	192	52.459		19.45	1.56	291.70	2.07E+10	1.10E+10
6/20/22	3.56	193	52.732		19.20	1.54	288.02	2.05E+10	1.09E+10
6/5/22	3.55	194	53.005		19.14	1.53	287.07	2.04E+10	1.09E+10
12/14/22	3.51	195	53.279		18.93	1.51	283.97	2.02E+10	1.07E+10
12/18/22	3.51	196	53.552		18.89	1.51	283.42	2.02E+10	1.07E+10
8/29/22	3.49	197	53.825		18.80	1.50	282.00	2.01E+10	1.07E+10
1/17/22	3.31	198	54.098		17.85	1.43	267.68	1.90E+10	1.01E+10
7/9/22	3.29	199	54.372		17.71	1.42	265.72	1.89E+10	1.01E+10
6/21/22	3.14	200	54.645		16.91	1.35	253.58	1.80E+10	9.59E+09
6/27/22	3.04	201	54.918		16.40	1.31	245.93	1.75E+10	9.30E+09
12/21/22	3.03	202	55.191		16.33	1.31	244.91	1.74E+10	9.26E+09
8/12/22	3.01	203	55.464		16.23	1.30	243.44	1.73E+10	9.21E+09
6/22/22	2.98	204	55.738		16.05	1.28	240.82	1.71E+10	9.11E+09
12/1/22	2.83	205	56.011		15.27	1.22	229.01	1.63E+10	8.66E+09
8/14/22	2.83	206	56.284		15.26	1.22	228.86	1.63E+10	8.66E+09
2/1/22	2.79	207	56.557		15.02	1.20	225.37	1.60E+10	8.52E+09
9/14/22	2.78	208	56.831		15.00	1.20	225.07	1.60E+10	8.51E+09
7/29/22	2.78	209	57.104		14.98	1.20	224.72	1.60E+10	8.50E+09
10/28/22	2.72	210	57.377		14.67	1.17	220.07	1.56E+10	8.32E+09
6/23/22	2.52	211	57.650		13.56	1.09	203.45	1.45E+10	7.70E+09
12/20/22	2.51	212	57.923		13.55	1.08	203.24	1.45E+10	7.69E+09
12/22/22	2.50	213	58.197		13.49	1.08	202.37	1.44E+10	7.65E+09
8/21/22	2.48	214	58.470		13.39	1.07	200.89	1.43E+10	7.60E+09
1/18/22	2.45	215	58.743		13.19	1.06	197.92	1.41E+10	7.49E+09
12/10/22	2.43	216	59.016		13.08	1.05	196.20	1.40E+10	7.42E+09
12/2/22	2.35	217	59.290		12.65	1.01	189.77	1.35E+10	7.18E+09
8/15/22	2.33	218	59.563		12.55	1.00	188.30	1.34E+10	7.12E+09
8/3/22	2.31	219	59.836		12.45	1.00	186.70	1.33E+10	7.06E+09
8/13/22	2.26	220	60.109		12.20	0.98	183.01	1.30E+10	6.92E+09
8/20/22	2.26	221	60.383		12.19	0.98	182.82	1.30E+10	6.92E+09
7/30/22	2.18	222	60.656		11.74	0.94	176.15	1.25E+10	6.66E+09
12/3/22	2.17	223	60.929		11.69	0.94	175.37	1.25E+10	6.63E+09
8/16/22	2.13	224	61.202		11.47	0.92	171.98	1.22E+10	6.51E+09
7/8/22	2.12	225	61.475		11.43	0.91	171.38	1.22E+10	6.48E+09
9/2/22	2.10	226	61.749		11.31	0.91	169.69	1.21E+10	6.42E+09
7/10/22	2.07	227	62.022		11.17	0.89	167.57	1.19E+10	6.34E+09
8/23/22	2.05	228	62.295		11.06	0.88	165.89	1.18E+10	6.27E+09
9/19/22	2.05	229	62.568		11.04	0.88	165.56	1.18E+10	6.26E+09
1/31/22	2.02	230	62.842		10.88	0.87	163.15	1.16E+10	6.17E+09
12/7/22	2.00	231	63.115		10.80	0.86	162.06	1.15E+10	6.13E+09
10/29/22	1.98	232	63.388		10.67	0.85	160.08	1.14E+10	6.05E+09
10/18/22	1.98	233	63.661		10.66	0.85	159.95	1.14E+10	6.05E+09
12/6/22	1.96	234	63.934		10.57	0.85	158.51	1.13E+10	6.00E+09
12/9/22	1.95	235	64.208		10.50	0.84	157.54	1.12E+10	5.96E+09
12/11/22	1.95	236	64.481		10.49	0.84	157.34	1.12E+10	5.95E+09
10/19/22	1.95	237	64.754		10.48	0.84	157.27	1.12E+10	5.95E+09
12/5/22	1.94	238	65.027		10.47	0.84	157.02	1.12E+10	5.94E+09
9/15/22	1.90	239	65.301		10.25	0.82	153.76	1.09E+10	5.82E+09
12/4/22	1.89	240	65.574		10.20	0.82	152.99	1.09E+10	5.79E+09

date	S10 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/24/22	1.88	241	65.847		10.15	0.81	152.18	1.08E+10	5.76E+09
12/8/22	1.87	242	66.120		10.06	0.81	150.95	1.07E+10	5.71E+09
6/28/22	1.86	243	66.393		10.04	0.80	150.63	1.07E+10	5.70E+09
8/22/22	1.85	244	66.667		9.97	0.80	149.48	1.06E+10	5.65E+09
11/13/22	1.82	245	66.940		9.83	0.79	147.42	1.05E+10	5.58E+09
1/19/22	1.82	246	67.213		9.80	0.78	147.06	1.05E+10	5.56E+09
12/12/22	1.81	247	67.486		9.77	0.78	146.58	1.04E+10	5.54E+09
10/31/22	1.75	248	67.760		9.45	0.76	141.72	1.01E+10	5.36E+09
9/24/22	1.75	249	68.033		9.41	0.75	141.15	1.00E+10	5.34E+09
12/13/22	1.73	250	68.306		9.34	0.75	140.09	9.96E+09	5.30E+09
1/30/22	1.73	251	68.579		9.32	0.75	139.86	9.95E+09	5.29E+09
11/4/22	1.73	252	68.852		9.30	0.74	139.50	9.92E+09	5.28E+09
11/6/22	1.69	253	69.126		9.09	0.73	136.34	9.70E+09	5.16E+09
9/3/22	1.69	254	69.399		9.09	0.73	136.30	9.69E+09	5.16E+09
8/19/22	1.68	255	69.672		9.07	0.73	136.08	9.68E+09	5.15E+09
6/25/22	1.68	256	69.945		9.07	0.73	136.04	9.67E+09	5.15E+09
11/5/22	1.68	257	70.219		9.06	0.72	135.89	9.66E+09	5.14E+09
10/13/22	1.68	258	70.492		9.03	0.72	135.44	9.63E+09	5.12E+09
10/30/22	1.67	259	70.765		8.99	0.72	134.81	9.59E+09	5.10E+09
10/15/22	1.65	260	71.038		8.91	0.71	133.58	9.50E+09	5.05E+09
1/29/22	1.65	261	71.311		8.89	0.71	133.33	9.48E+09	5.04E+09
1/20/22	1.63	262	71.585		8.79	0.70	131.87	9.38E+09	4.99E+09
10/14/22	1.63	263	71.858		8.78	0.70	131.63	9.36E+09	4.98E+09
11/16/22	1.63	264	72.131		8.76	0.70	131.38	9.34E+09	4.97E+09
7/1/22	1.61	265	72.404		8.70	0.70	130.54	9.28E+09	4.94E+09
1/28/22	1.61	266	72.678		8.67	0.69	130.07	9.25E+09	4.92E+09
6/29/22	1.59	267	72.951		8.59	0.69	128.80	9.16E+09	4.87E+09
11/1/22	1.59	268	73.224		8.55	0.68	128.29	9.12E+09	4.85E+09
1/24/22	1.57	269	73.497		8.48	0.68	127.26	9.05E+09	4.81E+09
1/25/22	1.57	270	73.770		8.48	0.68	127.26	9.05E+09	4.81E+09
1/26/22	1.57	271	74.044		8.48	0.68	127.26	9.05E+09	4.81E+09
1/27/22	1.57	272	74.317		8.48	0.68	127.26	9.05E+09	4.81E+09
1/21/22	1.54	273	74.590		8.28	0.66	124.22	8.83E+09	4.70E+09
1/23/22	1.52	274	74.863		8.20	0.66	122.98	8.75E+09	4.65E+09
11/19/22	1.52	275	75.137		8.19	0.66	122.85	8.74E+09	4.65E+09
9/16/22	1.51	276	75.410		8.16	0.65	122.41	8.70E+09	4.63E+09
11/14/22	1.51	277	75.683		8.15	0.65	122.31	8.70E+09	4.63E+09
10/16/22	1.51	278	75.956		8.15	0.65	122.24	8.69E+09	4.62E+09
11/15/22	1.51	279	76.230		8.14	0.65	122.12	8.68E+09	4.62E+09
1/22/22	1.50	280	76.503		8.09	0.65	121.41	8.63E+09	4.59E+09
11/17/22	1.49	281	76.776		8.05	0.64	120.68	8.58E+09	4.56E+09
7/11/22	1.48	282	77.049		7.99	0.64	119.90	8.53E+09	4.54E+09
11/18/22	1.47	283	77.322		7.94	0.64	119.13	8.47E+09	4.51E+09
11/2/22	1.47	284	77.596		7.93	0.63	118.89	8.45E+09	4.50E+09
9/20/22	1.47	285	77.869		7.92	0.63	118.86	8.45E+09	4.50E+09
11/12/22	1.46	286	78.142		7.88	0.63	118.15	8.40E+09	4.47E+09
8/17/22	1.43	287	78.415		7.73	0.62	115.93	8.24E+09	4.39E+09
11/10/22	1.42	288	78.689		7.65	0.61	114.72	8.16E+09	4.34E+09
10/17/22	1.41	289	78.962		7.63	0.61	114.39	8.13E+09	4.33E+09
11/3/22	1.41	290	79.235		7.62	0.61	114.24	8.12E+09	4.32E+09
6/30/22	1.39	291	79.508		7.50	0.60	112.53	8.00E+09	4.26E+09
8/24/22	1.37	292	79.781		7.41	0.59	111.13	7.90E+09	4.20E+09
11/20/22	1.35	293	80.055		7.30	0.58	109.48	7.79E+09	4.14E+09
11/23/22	1.35	294	80.328		7.30	0.58	109.47	7.78E+09	4.14E+09
11/7/22	1.35	295	80.601		7.28	0.58	109.22	7.77E+09	4.13E+09
11/24/22	1.34	296	80.874		7.24	0.58	108.57	7.72E+09	4.11E+09
11/25/22	1.32	297	81.148		7.12	0.57	106.75	7.59E+09	4.04E+09
11/11/22	1.31	298	81.421		7.08	0.57	106.23	7.55E+09	4.02E+09
9/25/22	1.31	299	81.694		7.05	0.56	105.78	7.52E+09	4.00E+09
11/22/22	1.30	300	81.967		7.03	0.56	105.50	7.50E+09	3.99E+09

date	S10 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
11/8/22	1.30	301	82.240		7.01	0.56	105.11	7.47E+09	3.98E+09
10/12/22	1.29	302	82.514		6.98	0.56	104.67	7.44E+09	3.96E+09
8/6/22	1.29	303	82.787		6.95	0.56	104.29	7.42E+09	3.94E+09
11/21/22	1.27	304	83.060		6.86	0.55	102.91	7.32E+09	3.89E+09
9/22/22	1.27	305	83.333		6.84	0.55	102.63	7.30E+09	3.88E+09
8/27/22	1.21	306	83.607		6.52	0.52	97.77	6.95E+09	3.70E+09
11/26/22	1.19	307	83.880		6.44	0.51	96.53	6.86E+09	3.65E+09
9/23/22	1.19	308	84.153		6.41	0.51	96.17	6.84E+09	3.64E+09
9/17/22	1.17	309	84.426		6.31	0.51	94.70	6.73E+09	3.58E+09
8/8/22	1.17	310	84.699		6.31	0.50	94.65	6.73E+09	3.58E+09
8/7/22	1.16	311	84.973		6.24	0.50	93.59	6.66E+09	3.54E+09
10/20/22	1.14	312	85.246		6.12	0.49	91.86	6.53E+09	3.47E+09
9/4/22	1.13	313	85.519		6.11	0.49	91.64	6.52E+09	3.47E+09
7/18/22	1.13	314	85.792		6.08	0.49	91.14	6.48E+09	3.45E+09
9/21/22	1.11	315	86.066		6.00	0.48	90.03	6.40E+09	3.41E+09
7/2/22	1.09	316	86.339		5.87	0.47	88.08	6.26E+09	3.33E+09
9/26/22	1.07	317	86.612		5.77	0.46	86.60	6.16E+09	3.28E+09
7/19/22	1.07	318	86.885		5.76	0.46	86.43	6.15E+09	3.27E+09
9/18/22	1.06	319	87.158		5.70	0.46	85.51	6.08E+09	3.23E+09
9/5/22	1.05	320	87.432		5.65	0.45	84.71	6.02E+09	3.20E+09
9/27/22	0.99	321	87.705		5.36	0.43	80.36	5.71E+09	3.04E+09
10/24/22	0.96	322	87.978		5.19	0.42	77.91	5.54E+09	2.95E+09
7/12/22	0.91	323	88.251		4.92	0.39	73.82	5.25E+09	2.79E+09
7/3/22	0.88	324	88.525		4.76	0.38	71.42	5.08E+09	2.70E+09
7/31/22	0.86	325	88.798		4.64	0.37	69.56	4.95E+09	2.63E+09
9/6/22	0.84	326	89.071		4.55	0.36	68.22	4.85E+09	2.58E+09
10/4/22	0.84	327	89.344		4.50	0.36	67.51	4.80E+09	2.55E+09
8/18/22	0.81	328	89.617		4.39	0.35	65.87	4.68E+09	2.49E+09
9/29/22	0.73	329	89.891		3.91	0.31	58.64	4.17E+09	2.22E+09
10/10/22	0.71	330	90.164		3.82	0.31	57.34	4.08E+09	2.17E+09
7/4/22	0.68	331	90.437		3.66	0.29	54.83	3.90E+09	2.07E+09
10/9/22	0.67	332	90.710		3.63	0.29	54.39	3.87E+09	2.06E+09
8/25/22	0.66	333	90.984		3.57	0.29	53.61	3.81E+09	2.03E+09
9/7/22	0.64	334	91.257		3.45	0.28	51.73	3.68E+09	1.96E+09
10/11/22	0.56	335	91.530		3.00	0.24	45.06	3.20E+09	1.70E+09
11/9/22	0.55	336	91.803		2.99	0.24	44.78	3.18E+09	1.69E+09
10/5/22	0.49	337	92.077		2.62	0.21	39.29	2.79E+09	1.49E+09
9/28/22	0.45	338	92.350		2.41	0.19	36.15	2.57E+09	1.37E+09
10/23/22	0.43	339	92.623		2.32	0.19	34.79	2.47E+09	1.32E+09
10/1/22	0.40	340	92.896		2.13	0.17	31.97	2.27E+09	1.21E+09
10/8/22	0.37	341	93.169		1.99	0.16	29.81	2.12E+09	1.13E+09
7/17/22	0.35	342	93.443		1.88	0.15	28.26	2.01E+09	1.07E+09
10/21/22	0.35	343	93.716		1.88	0.15	28.26	2.01E+09	1.07E+09
7/6/22	0.34	344	93.989		1.82	0.15	27.24	1.94E+09	1.03E+09
7/7/22	0.34	345	94.262		1.81	0.14	27.17	1.93E+09	1.03E+09
8/28/22	0.27	346	94.536		1.45	0.12	21.78	1.55E+09	8.24E+08
9/8/22	0.26	347	94.809		1.39	0.11	20.79	1.48E+09	7.86E+08
10/3/22	0.24	348	95.082		1.27	0.10	19.03	1.35E+09	7.20E+08
9/30/22	0.23	349	95.355		1.24	0.10	18.55	1.32E+09	7.02E+08
9/10/22	0.22	350	95.628		1.18	0.09	17.64	1.25E+09	6.67E+08
7/22/22	0.20	351	95.902		1.08	0.09	16.26	1.16E+09	6.15E+08
7/21/22	0.20	352	96.175		1.06	0.08	15.91	1.13E+09	6.02E+08
7/14/22	0.19	353	96.448		1.05	0.08	15.69	1.12E+09	5.93E+08
10/7/22	0.19	354	96.721		1.04	0.08	15.59	1.11E+09	5.90E+08
7/23/22	0.19	355	96.995		1.03	0.08	15.45	1.10E+09	5.84E+08
8/26/22	0.19	356	97.268		1.03	0.08	15.40	1.09E+09	5.82E+08
7/16/22	0.18	357	97.541		0.96	0.08	14.46	1.03E+09	5.47E+08
10/22/22	0.17	358	97.814		0.92	0.07	13.82	9.83E+08	5.23E+08
7/13/22	0.17	359	98.087		0.92	0.07	13.80	9.81E+08	5.22E+08
10/6/22	0.16	360	98.361		0.87	0.07	13.09	9.31E+08	4.95E+08



date	S10 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
7/5/22	0.15	361	98.634		0.81	0.06	12.08	8.59E+08	4.57E+08
7/20/22	0.13	362	98.907		0.72	0.06	10.74	7.64E+08	4.06E+08
10/2/22	0.12	363	99.180		0.62	0.05	9.35	6.65E+08	3.54E+08
7/15/22	0.11	364	99.454		0.60	0.05	9.06	6.44E+08	3.43E+08
9/9/22	0.06	365	99.727		0.30	0.02	4.55	3.24E+08	1.72E+08
<b>TOTAL NUMBER</b>	365								
					1.00	0.08	15.00	235.00	125.00
					5.39	5.39	5.39	24465758.40	24465758.40

Date	Flow	NO3_N (mg/L)	TP (mg/L)	TSS (mg/L)	Ecoli (col/100 mL)
1/26/22	1.57	4.31	0.169	2	143.9
2/23/22	66.94	5.07	0.355	22	37.3
3/23/22	188.83	5.37	0.685	43	172.3
4/27/22	17.61	5.34	0.248	2	7.3
5/24/22	4.32	7.3	0.146	4	48.7
6/27/22	3.04	3.05	0.057	10	145.5
7/25/22	3.96	0.56	2.26	6	2419.6
8/22/22					
1/25/23					

Date	% Flow Exceed		NO3 Act Load	TP Act Load	TSS Act Load	Ecoli Act Load
1/26/22	74.04371585		36.56485583	1.43374957	16.9674505	5.54E+09
2/23/22	3.551912568		1829.409304	128.094734	7938.265223	6.11E+10
3/23/22	1.092896175		5465.477547	697.179166	43764.53157	7.96E+11
4/27/22	21.03825137		506.7933023	23.536468	189.8102256	3.14E+09
5/24/22	49.18032787		170.0044823	3.40008965	93.15314101	5.15E+09
6/27/22	54.91803279		50.00553839	0.93452973	163.9525849	1.08E+10
7/25/22	21.8579235		11.96282554	48.2785459	128.1731308	2.35E+11
8/22/22	66.66666667		0	0	0	0.00E+00
	0		0	0	0	0.00E+00
	0		0	0	0	0.00E+00
	0		0	0	0	0.00E+00
	0		0	0	0	0.00E+00
1/25/23						

Date	Ann Load Proxy Range		NO3 Ann Load	TP Ann Load
1/26/22		28	1023.815963	40.14498788
2/23/22		28	51223.4605	3586.65256
3/23/22		35	191291.7141	24401.2708
4/27/22		27	13683.41916	635.4846352
5/24/22		34	5780.1524	115.603048
6/27/22		28	1400.155075	26.16683255
7/25/22		28	334.9591151	1351.799286
8/22/22			0	0
			0	0
			0	0
			0	0
			0	0
1/25/23				

Date	TSS Ann Load	Ecoli Ann Load
1/26/22	475.088614	1.55E+11
2/23/22	222271.4262	1.71E+12
3/23/22	1531758.605	2.79E+13
4/27/22	5124.87609	8.49E+10
5/24/22	3167.206794	1.75E+11
6/27/22	4590.672376	3.03E+11
7/25/22	3588.847662	6.57E+12
8/22/22	0	0.00E+00
	0	0.00E+00
	0	0.00E+00
	0	0.00E+00
	0	0.00E+00
	0	0.00E+00
1/25/23		

date	S11 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
2/17/22	2401.13	1	0.273		12942.08	1035.37	194131.24	1.38E+13	7.34E+12
3/7/22	1647.73	2	0.546		8881.28	710.50	133219.13	9.47E+12	5.04E+12
2/18/22	1162.44	3	0.820		6265.55	501.24	93983.24	6.68E+12	3.55E+12
3/23/22	1075.24	4	1.093		5795.57	463.65	86933.49	6.18E+12	3.29E+12
5/1/22	707.91	5	1.366		3815.63	305.25	57234.47	4.07E+12	2.16E+12
3/8/22	645.51	6	1.639		3479.29	278.34	52189.33	3.71E+12	1.97E+12
2/22/22	532.16	7	1.913		2868.35	229.47	43025.26	3.06E+12	1.63E+12
2/16/22	472.75	8	2.186		2548.12	203.85	38221.78	2.72E+12	1.45E+12
3/24/22	460.02	9	2.459		2479.52	198.36	37192.85	2.64E+12	1.41E+12
5/6/22	439.32	10	2.732		2367.93	189.43	35519.02	2.53E+12	1.34E+12
1/2/22	419.51	11	3.005		2261.15	180.89	33917.26	2.41E+12	1.28E+12
2/19/22	401.75	12	3.279		2165.45	173.24	32481.68	2.31E+12	1.23E+12
2/23/22	381.20	13	3.552		2054.68	164.37	30820.25	2.19E+12	1.17E+12
8/30/22	374.52	14	3.825		2018.68	161.49	30280.26	2.15E+12	1.15E+12
2/2/22	371.60	15	4.098		2002.93	160.23	30043.88	2.14E+12	1.14E+12
5/7/22	354.71	16	4.372		1911.90	152.95	28678.50	2.04E+12	1.08E+12
5/4/22	325.30	17	4.645		1753.38	140.27	26300.69	1.87E+12	9.95E+11
3/9/22	320.85	18	4.918		1729.37	138.35	25940.49	1.84E+12	9.81E+11
6/12/22	316.02	19	5.191		1703.34	136.27	25550.07	1.82E+12	9.66E+11
6/13/22	300.09	20	5.464		1617.50	129.40	24262.45	1.73E+12	9.18E+11
5/2/22	264.81	21	5.738		1427.30	114.18	21409.52	1.52E+12	8.10E+11
4/14/22	261.25	22	6.011		1408.13	112.65	21122.00	1.50E+12	7.99E+11
5/27/22	259.06	23	6.284		1396.33	111.71	20945.01	1.49E+12	7.92E+11
5/3/22	253.93	24	6.557		1368.66	109.49	20529.95	1.46E+12	7.77E+11
6/14/22	250.49	25	6.831		1350.16	108.01	20252.45	1.44E+12	7.66E+11
3/25/22	249.99	26	7.104		1347.47	107.80	20212.00	1.44E+12	7.65E+11
2/21/22	244.99	27	7.377		1320.50	105.64	19807.56	1.41E+12	7.49E+11
2/20/22	240.19	28	7.650		1294.62	103.57	19419.33	1.38E+12	7.35E+11
3/22/22	232.69	29	7.923		1254.19	100.34	18812.86	1.34E+12	7.12E+11
2/3/22	219.57	30	8.197		1183.46	94.68	17751.90	1.26E+12	6.71E+11
1/1/22	216.20	31	8.470		1165.32	93.23	17479.80	1.24E+12	6.61E+11
5/5/22	205.36	32	8.743		1106.90	88.55	16603.44	1.18E+12	6.28E+11
3/10/22	204.26	33	9.016		1100.96	88.08	16514.34	1.17E+12	6.25E+11
12/31/22	202.41	34	9.290		1090.99	87.28	16364.78	1.16E+12	6.19E+11
3/26/22	192.30	35	9.563		1036.51	82.92	15547.68	1.11E+12	5.88E+11
4/25/22	192.02	36	9.836		1034.96	82.80	15524.45	1.10E+12	5.87E+11
2/24/22	191.13	37	10.109		1030.21	82.42	15453.17	1.10E+12	5.85E+11
2/12/22	186.97	38	10.383		1007.77	80.62	15116.60	1.07E+12	5.72E+11
1/3/22	185.02	39	10.656		997.27	79.78	14959.03	1.06E+12	5.66E+11
5/26/22	181.71	40	10.929		979.40	78.35	14690.94	1.04E+12	5.56E+11
9/11/22	175.92	41	11.202		948.20	75.86	14222.98	1.01E+12	5.38E+11
5/8/22	163.97	42	11.475		883.80	70.70	13256.96	9.43E+11	5.01E+11
3/11/22	161.87	43	11.749		872.47	69.80	13086.98	9.31E+11	4.95E+11
4/7/22	159.62	44	12.022		860.37	68.83	12905.58	9.18E+11	4.88E+11
4/15/22	158.07	45	12.295		852.00	68.16	12780.04	9.09E+11	4.83E+11
1/9/22	157.97	46	12.568		851.48	68.12	12772.23	9.08E+11	4.83E+11
4/26/22	155.41	47	12.842		837.68	67.01	12565.20	8.94E+11	4.75E+11
3/19/22	153.57	48	13.115		827.75	66.22	12416.24	8.83E+11	4.70E+11
3/27/22	150.32	49	13.388		810.21	64.82	12153.15	8.64E+11	4.60E+11
2/25/22	149.71	50	13.661		806.93	64.55	12103.90	8.61E+11	4.58E+11
3/1/22	144.71	51	13.934		780.00	62.40	11700.05	8.32E+11	4.43E+11
3/20/22	140.34	52	14.208		756.42	60.51	11346.26	8.07E+11	4.29E+11
2/28/22	139.09	53	14.481		749.70	59.98	11245.55	8.00E+11	4.25E+11
2/27/22	133.63	54	14.754		720.24	57.62	10803.67	7.68E+11	4.09E+11
10/26/22	132.70	55	15.027		715.25	57.22	10728.82	7.63E+11	4.06E+11
3/2/22	130.11	56	15.301		701.28	56.10	10519.15	7.48E+11	3.98E+11
4/6/22	130.06	57	15.574		701.00	56.08	10514.95	7.48E+11	3.98E+11
5/28/22	129.97	58	15.847		700.52	56.04	10507.74	7.47E+11	3.97E+11
8/9/22	126.93	59	16.120		684.16	54.73	10262.43	7.30E+11	3.88E+11
3/12/22	125.30	60	16.393		675.37	54.03	10130.53	7.20E+11	3.83E+11

date	S11 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
3/28/22	121.08	61	16.667		652.60	52.21	9788.95	6.96E+11	3.70E+11
4/8/22	120.92	62	16.940		651.76	52.14	9776.34	6.95E+11	3.70E+11
2/26/22	120.13	63	17.213		647.50	51.80	9712.47	6.91E+11	3.67E+11
1/4/22	119.91	64	17.486		646.32	51.71	9694.85	6.89E+11	3.67E+11
12/15/22	116.36	65	17.760		627.18	50.17	9407.73	6.69E+11	3.56E+11
3/31/22	115.27	66	18.033		621.30	49.70	9319.44	6.63E+11	3.53E+11
3/21/22	115.00	67	18.306		619.87	49.59	9298.01	6.61E+11	3.52E+11
4/16/22	114.78	68	18.579		618.65	49.49	9279.79	6.60E+11	3.51E+11
6/15/22	111.37	69	18.852		600.30	48.02	9004.49	6.40E+11	3.41E+11
5/9/22	109.90	70	19.126		592.36	47.39	8885.36	6.32E+11	3.36E+11
4/9/22	107.54	71	19.399		579.65	46.37	8694.75	6.18E+11	3.29E+11
11/27/22	106.69	72	19.672		575.06	46.00	8625.92	6.13E+11	3.26E+11
3/3/22	104.79	73	19.945		564.83	45.19	8472.51	6.03E+11	3.20E+11
3/29/22	104.79	74	20.219		564.82	45.19	8472.31	6.02E+11	3.20E+11
4/13/22	104.12	75	20.492		561.21	44.90	8418.20	5.99E+11	3.18E+11
2/13/22	100.37	76	20.765		541.01	43.28	8115.11	5.77E+11	3.07E+11
4/27/22	100.26	77	21.038		540.42	43.23	8106.30	5.76E+11	3.07E+11
3/13/22	100.22	78	21.311		540.19	43.22	8102.90	5.76E+11	3.06E+11
3/30/22	98.48	79	21.585		530.82	42.47	7962.35	5.66E+11	3.01E+11
7/25/22	96.44	80	21.858		519.81	41.58	7797.16	5.54E+11	2.95E+11
1/5/22	95.53	81	22.131		514.90	41.19	7723.48	5.49E+11	2.92E+11
2/11/22	93.47	82	22.404		503.79	40.30	7556.90	5.37E+11	2.86E+11
3/6/22	92.34	83	22.678		497.73	39.82	7466.00	5.31E+11	2.82E+11
3/14/22	92.22	84	22.951		497.09	39.77	7456.39	5.30E+11	2.82E+11
1/10/22	92.22	85	23.224		497.05	39.76	7455.79	5.30E+11	2.82E+11
4/10/22	91.26	86	23.497		491.90	39.35	7378.50	5.25E+11	2.79E+11
4/1/22	90.93	87	23.770		490.13	39.21	7351.88	5.23E+11	2.78E+11
2/4/22	89.13	88	24.044		480.39	38.43	7205.78	5.12E+11	2.73E+11
4/17/22	88.97	89	24.317		479.57	38.37	7193.50	5.12E+11	2.72E+11
4/18/22	87.18	90	24.590		469.90	37.59	7048.54	5.01E+11	2.67E+11
3/4/22	85.62	91	24.863		461.48	36.92	6922.20	4.92E+11	2.62E+11
3/15/22	84.54	92	25.137		455.66	36.45	6834.91	4.86E+11	2.59E+11
4/11/22	84.16	93	25.410		453.62	36.29	6804.27	4.84E+11	2.57E+11
5/10/22	82.81	94	25.683		446.33	35.71	6694.95	4.76E+11	2.53E+11
5/29/22	81.79	95	25.956		440.86	35.27	6612.86	4.70E+11	2.50E+11
4/19/22	81.73	96	26.230		440.54	35.24	6608.06	4.70E+11	2.50E+11
4/2/22	80.57	97	26.503		434.29	34.74	6514.36	4.63E+11	2.46E+11
3/18/22	80.30	98	26.776		432.81	34.62	6492.13	4.62E+11	2.46E+11
4/28/22	80.20	99	27.049		432.26	34.58	6483.92	4.61E+11	2.45E+11
3/5/22	78.99	100	27.322		425.75	34.06	6386.21	4.54E+11	2.42E+11
3/16/22	78.95	101	27.596		425.53	34.04	6383.01	4.54E+11	2.41E+11
4/3/22	76.93	102	27.869		414.67	33.17	6220.03	4.42E+11	2.35E+11
4/5/22	76.81	103	28.142		414.00	33.12	6210.02	4.42E+11	2.35E+11
4/12/22	75.65	104	28.415		407.77	32.62	6116.52	4.35E+11	2.31E+11
3/17/22	73.53	105	28.689		396.30	31.70	5944.53	4.23E+11	2.25E+11
9/12/22	72.87	106	28.962		392.78	31.42	5891.67	4.19E+11	2.23E+11
4/4/22	72.23	107	29.235		389.29	31.14	5839.41	4.15E+11	2.21E+11
6/16/22	71.20	108	29.508		383.78	30.70	5756.72	4.09E+11	2.18E+11
4/29/22	70.76	109	29.781		381.39	30.51	5720.88	4.07E+11	2.16E+11
4/20/22	70.52	110	30.055		380.12	30.41	5701.86	4.05E+11	2.16E+11
4/21/22	69.50	111	30.328		374.58	29.97	5618.77	4.00E+11	2.13E+11
5/20/22	68.63	112	30.601		369.90	29.59	5548.49	3.95E+11	2.10E+11
2/14/22	68.06	113	30.874		366.86	29.35	5502.92	3.91E+11	2.08E+11
5/11/22	67.93	114	31.148		366.16	29.29	5492.43	3.91E+11	2.08E+11
4/30/22	67.32	115	31.421		362.88	29.03	5443.18	3.87E+11	2.06E+11
1/6/22	67.29	116	31.694		362.71	29.02	5440.58	3.87E+11	2.06E+11
5/16/22	64.67	117	31.967		348.57	27.89	5228.54	3.72E+11	1.98E+11
11/28/22	63.87	118	32.240		344.24	27.54	5163.67	3.67E+11	1.95E+11
4/22/22	63.66	119	32.514		343.11	27.45	5146.65	3.66E+11	1.95E+11
4/23/22	62.46	120	32.787		336.65	26.93	5049.75	3.59E+11	1.91E+11

date	S11 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
12/30/22	59.87	121	33.060		322.67	25.81	4840.12	3.44E+11	1.83E+11
5/30/22	59.49	122	33.333		320.65	25.65	4809.68	3.42E+11	1.82E+11
4/24/22	58.82	123	33.607		317.05	25.36	4755.82	3.38E+11	1.80E+11
5/12/22	58.61	124	33.880		315.89	25.27	4738.40	3.37E+11	1.79E+11
1/11/22	57.54	125	34.153		310.11	24.81	4651.71	3.31E+11	1.76E+11
8/31/22	55.15	126	34.426		297.26	23.78	4458.90	3.17E+11	1.69E+11
12/27/22	53.22	127	34.699		286.85	22.95	4302.73	3.06E+11	1.63E+11
5/14/22	52.15	128	34.973		281.11	22.49	4216.63	3.00E+11	1.59E+11
6/17/22	52.03	129	35.246		280.44	22.44	4206.62	2.99E+11	1.59E+11
5/13/22	51.77	130	35.519		279.03	22.32	4185.40	2.98E+11	1.58E+11
5/19/22	51.14	131	35.792		275.64	22.05	4134.54	2.94E+11	1.56E+11
5/15/22	50.95	132	36.066		274.64	21.97	4119.53	2.93E+11	1.56E+11
12/16/22	50.62	133	36.339		272.85	21.83	4092.70	2.91E+11	1.55E+11
2/10/22	50.45	134	36.612		271.95	21.76	4079.28	2.90E+11	1.54E+11
8/10/22	47.95	135	36.885		258.47	20.68	3877.06	2.76E+11	1.47E+11
1/7/22	47.70	136	37.158		257.12	20.57	3856.84	2.74E+11	1.46E+11
5/18/22	46.50	137	37.432		250.65	20.05	3759.73	2.67E+11	1.42E+11
1/12/22	46.09	138	37.705		248.41	19.87	3726.09	2.65E+11	1.41E+11
5/31/22	45.83	139	37.978		247.03	19.76	3705.47	2.64E+11	1.40E+11
12/26/22	45.81	140	38.251		246.92	19.75	3703.87	2.63E+11	1.40E+11
5/17/22	45.67	141	38.525		246.16	19.69	3692.46	2.63E+11	1.40E+11
2/15/22	44.99	142	38.798		242.51	19.40	3637.70	2.59E+11	1.38E+11
5/21/22	43.50	143	39.071		234.44	18.76	3516.66	2.50E+11	1.33E+11
1/8/22	43.48	144	39.344		234.34	18.75	3515.06	2.50E+11	1.33E+11
2/9/22	41.83	145	39.617		225.47	18.04	3382.12	2.41E+11	1.28E+11
5/25/22	41.70	146	39.891		224.78	17.98	3371.70	2.40E+11	1.28E+11
6/1/22	40.21	147	40.164		216.72	17.34	3250.77	2.31E+11	1.23E+11
1/13/22	40.15	148	40.437		216.42	17.31	3246.37	2.31E+11	1.23E+11
2/8/22	38.98	149	40.710		210.09	16.81	3151.30	2.24E+11	1.19E+11
12/29/22	38.15	150	40.984		205.61	16.45	3084.19	2.19E+11	1.17E+11
12/28/22	37.51	151	41.257		202.17	16.17	3032.53	2.16E+11	1.15E+11
5/22/22	35.42	152	41.530		190.92	15.27	2863.75	2.04E+11	1.08E+11
2/5/22	35.30	153	41.803		190.29	15.22	2854.34	2.03E+11	1.08E+11
8/1/22	35.14	154	42.077		189.42	15.15	2841.34	2.02E+11	1.07E+11
6/18/22	35.12	155	42.350		189.27	15.14	2839.12	2.02E+11	1.07E+11
6/2/22	34.66	156	42.623		186.79	14.94	2801.88	1.99E+11	1.06E+11
8/4/22	34.42	157	42.896		185.52	14.84	2782.84	1.98E+11	1.05E+11
1/14/22	33.21	158	43.169		179.00	14.32	2684.95	1.91E+11	1.02E+11
7/24/22	32.45	159	43.443		174.89	13.99	2623.36	1.87E+11	9.92E+10
6/7/22	32.33	160	43.716		174.26	13.94	2613.87	1.86E+11	9.89E+10
10/25/22	30.66	161	43.989		165.24	13.22	2478.66	1.76E+11	9.38E+10
10/27/22	30.52	162	44.262		164.48	13.16	2467.21	1.75E+11	9.33E+10
12/25/22	30.27	163	44.536		163.17	13.05	2447.49	1.74E+11	9.26E+10
11/29/22	29.36	164	44.809		158.25	12.66	2373.79	1.69E+11	8.98E+10
5/23/22	28.87	165	45.082		155.61	12.45	2334.16	1.66E+11	8.83E+10
7/26/22	28.63	166	45.355		154.33	12.35	2314.90	1.65E+11	8.76E+10
9/13/22	28.46	167	45.628		153.38	12.27	2300.77	1.64E+11	8.70E+10
2/6/22	28.21	168	45.902		152.06	12.16	2280.91	1.62E+11	8.63E+10
12/17/22	28.20	169	46.175		152.02	12.16	2280.30	1.62E+11	8.63E+10
2/7/22	28.17	170	46.448		151.85	12.15	2277.70	1.62E+11	8.62E+10
12/19/22	28.16	171	46.721		151.78	12.14	2276.72	1.62E+11	8.61E+10
6/3/22	27.99	172	46.995		150.85	12.07	2262.69	1.61E+11	8.56E+10
1/15/22	27.61	173	47.268		148.83	11.91	2232.45	1.59E+11	8.44E+10
6/26/22	26.70	174	47.541		143.89	11.51	2158.29	1.53E+11	8.16E+10
6/19/22	25.87	175	47.814		139.45	11.16	2091.70	1.49E+11	7.91E+10
11/30/22	25.39	176	48.087		136.86	10.95	2052.85	1.46E+11	7.77E+10
12/24/22	25.07	177	48.361		135.13	10.81	2026.91	1.44E+11	7.67E+10
1/16/22	24.76	178	48.634		133.47	10.68	2001.99	1.42E+11	7.57E+10
6/8/22	24.63	179	48.907		132.75	10.62	1991.25	1.42E+11	7.53E+10
5/24/22	24.60	180	49.180		132.61	10.61	1989.16	1.41E+11	7.52E+10



date	S11 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/6/22	24.13	181	49.454		130.04	10.40	1950.64	1.39E+11	7.38E+10
8/11/22	23.86	182	49.727		128.63	10.29	1929.44	1.37E+11	7.30E+10
6/11/22	23.74	183	50.000		127.97	10.24	1919.57	1.37E+11	7.26E+10
7/27/22	22.57	184	50.273		121.64	9.73	1824.65	1.30E+11	6.90E+10
6/4/22	22.49	185	50.546		121.24	9.70	1818.66	1.29E+11	6.88E+10
6/9/22	22.33	186	50.820		120.35	9.63	1805.30	1.28E+11	6.83E+10
8/2/22	21.70	187	51.093		116.98	9.36	1754.71	1.25E+11	6.64E+10
6/10/22	21.07	188	51.366		113.58	9.09	1703.73	1.21E+11	6.44E+10
8/5/22	21.00	189	51.639		113.18	9.05	1697.76	1.21E+11	6.42E+10
12/23/22	20.80	190	51.913		112.11	8.97	1681.61	1.20E+11	6.36E+10
7/28/22	20.72	191	52.186		111.66	8.93	1674.96	1.19E+11	6.34E+10
9/1/22	20.54	192	52.459		110.73	8.86	1661.02	1.18E+11	6.28E+10
6/20/22	20.29	193	52.732		109.34	8.75	1640.10	1.17E+11	6.20E+10
6/5/22	20.22	194	53.005		108.98	8.72	1634.66	1.16E+11	6.18E+10
12/14/22	20.00	195	53.279		107.80	8.62	1617.00	1.15E+11	6.12E+10
12/18/22	19.96	196	53.552		107.59	8.61	1613.87	1.15E+11	6.10E+10
8/29/22	19.86	197	53.825		107.05	8.56	1605.78	1.14E+11	6.07E+10
1/17/22	18.85	198	54.098		101.62	8.13	1524.23	1.08E+11	5.77E+10
7/9/22	18.71	199	54.372		100.87	8.07	1513.08	1.08E+11	5.72E+10
6/21/22	17.86	200	54.645		96.27	7.70	1443.99	1.03E+11	5.46E+10
6/27/22	17.32	201	54.918		93.36	7.47	1400.40	9.96E+10	5.30E+10
12/21/22	17.25	202	55.191		92.97	7.44	1394.57	9.92E+10	5.28E+10
8/12/22	17.15	203	55.464		92.41	7.39	1386.20	9.86E+10	5.24E+10
6/22/22	16.96	204	55.738		91.42	7.31	1371.29	9.75E+10	5.19E+10
12/1/22	16.13	205	56.011		86.94	6.95	1304.03	9.27E+10	4.93E+10
8/14/22	16.12	206	56.284		86.88	6.95	1303.21	9.27E+10	4.93E+10
2/1/22	15.87	207	56.557		85.56	6.84	1283.33	9.13E+10	4.85E+10
9/14/22	15.85	208	56.831		85.44	6.84	1281.63	9.11E+10	4.85E+10
7/29/22	15.83	209	57.104		85.31	6.82	1279.62	9.10E+10	4.84E+10
10/28/22	15.50	210	57.377		83.54	6.68	1253.14	8.91E+10	4.74E+10
6/23/22	14.33	211	57.650		77.24	6.18	1158.53	8.24E+10	4.38E+10
12/20/22	14.31	212	57.923		77.16	6.17	1157.33	8.23E+10	4.38E+10
12/22/22	14.25	213	58.197		76.82	6.15	1152.35	8.19E+10	4.36E+10
8/21/22	14.15	214	58.470		76.26	6.10	1143.96	8.13E+10	4.33E+10
1/18/22	13.94	215	58.743		75.13	6.01	1127.00	8.01E+10	4.26E+10
12/10/22	13.82	216	59.016		74.48	5.96	1117.23	7.94E+10	4.23E+10
12/2/22	13.37	217	59.290		72.04	5.76	1080.61	7.68E+10	4.09E+10
8/15/22	13.26	218	59.563		71.48	5.72	1072.22	7.62E+10	4.06E+10
8/3/22	13.15	219	59.836		70.88	5.67	1063.15	7.56E+10	4.02E+10
8/13/22	12.89	220	60.109		69.47	5.56	1042.12	7.41E+10	3.94E+10
8/20/22	12.88	221	60.383		69.40	5.55	1041.02	7.40E+10	3.94E+10
7/30/22	12.41	222	60.656		66.87	5.35	1003.06	7.13E+10	3.79E+10
12/3/22	12.35	223	60.929		66.57	5.33	998.62	7.10E+10	3.78E+10
8/16/22	12.11	224	61.202		65.29	5.22	979.32	6.96E+10	3.70E+10
7/8/22	12.07	225	61.475		65.06	5.20	975.91	6.94E+10	3.69E+10
9/2/22	11.95	226	61.749		64.42	5.15	966.28	6.87E+10	3.66E+10
7/10/22	11.80	227	62.022		63.61	5.09	954.21	6.79E+10	3.61E+10
8/23/22	11.68	228	62.295		62.97	5.04	944.62	6.72E+10	3.57E+10
9/19/22	11.66	229	62.568		62.85	5.03	942.74	6.70E+10	3.57E+10
1/31/22	11.49	230	62.842		61.93	4.95	929.02	6.61E+10	3.51E+10
12/7/22	11.41	231	63.115		61.52	4.92	922.81	6.56E+10	3.49E+10
10/29/22	11.27	232	63.388		60.77	4.86	911.52	6.48E+10	3.45E+10
10/18/22	11.27	233	63.661		60.72	4.86	910.82	6.48E+10	3.45E+10
12/6/22	11.16	234	63.934		60.17	4.81	902.59	6.42E+10	3.41E+10
12/9/22	11.10	235	64.208		59.80	4.78	897.07	6.38E+10	3.39E+10
12/11/22	11.08	236	64.481		59.73	4.78	895.94	6.37E+10	3.39E+10
10/19/22	11.08	237	64.754		59.70	4.78	895.54	6.37E+10	3.39E+10
12/5/22	11.06	238	65.027		59.61	4.77	894.10	6.36E+10	3.38E+10
9/15/22	10.83	239	65.301		58.37	4.67	875.54	6.23E+10	3.31E+10
12/4/22	10.78	240	65.574		58.08	4.65	871.18	6.20E+10	3.30E+10

date	S11 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/24/22	10.72	241	65.847		57.77	4.62	866.57	6.16E+10	3.28E+10
12/8/22	10.63	242	66.120		57.31	4.58	859.58	6.11E+10	3.25E+10
6/28/22	10.61	243	66.393		57.18	4.57	857.72	6.10E+10	3.24E+10
8/22/22	10.53	244	66.667		56.75	4.54	851.22	6.05E+10	3.22E+10
11/13/22	10.38	245	66.940		55.96	4.48	839.44	5.97E+10	3.18E+10
1/19/22	10.36	246	67.213		55.83	4.47	837.40	5.95E+10	3.17E+10
12/12/22	10.32	247	67.486		55.64	4.45	834.66	5.94E+10	3.16E+10
10/31/22	9.98	248	67.760		53.80	4.30	807.01	5.74E+10	3.05E+10
9/24/22	9.94	249	68.033		53.58	4.29	803.76	5.72E+10	3.04E+10
12/13/22	9.87	250	68.306		53.18	4.25	797.70	5.67E+10	3.02E+10
1/30/22	9.85	251	68.579		53.09	4.25	796.39	5.66E+10	3.01E+10
11/4/22	9.83	252	68.852		52.96	4.24	794.35	5.65E+10	3.00E+10
11/6/22	9.60	253	69.126		51.76	4.14	776.35	5.52E+10	2.94E+10
9/3/22	9.60	254	69.399		51.74	4.14	776.11	5.52E+10	2.94E+10
8/19/22	9.58	255	69.672		51.66	4.13	774.89	5.51E+10	2.93E+10
6/25/22	9.58	256	69.945		51.64	4.13	774.63	5.51E+10	2.93E+10
11/5/22	9.57	257	70.219		51.59	4.13	773.81	5.50E+10	2.93E+10
10/13/22	9.54	258	70.492		51.42	4.11	771.27	5.48E+10	2.92E+10
10/30/22	9.49	259	70.765		51.18	4.09	767.66	5.46E+10	2.90E+10
10/15/22	9.41	260	71.038		50.71	4.06	760.66	5.41E+10	2.88E+10
1/29/22	9.39	261	71.311		50.62	4.05	759.23	5.40E+10	2.87E+10
1/20/22	9.29	262	71.585		50.06	4.00	750.90	5.34E+10	2.84E+10
10/14/22	9.27	263	71.858		49.97	4.00	749.54	5.33E+10	2.84E+10
11/16/22	9.25	264	72.131		49.88	3.99	748.14	5.32E+10	2.83E+10
7/1/22	9.19	265	72.404		49.55	3.96	743.32	5.29E+10	2.81E+10
1/28/22	9.16	266	72.678		49.38	3.95	740.65	5.27E+10	2.80E+10
6/29/22	9.07	267	72.951		48.90	3.91	733.45	5.22E+10	2.77E+10
11/1/22	9.04	268	73.224		48.70	3.90	730.54	5.20E+10	2.76E+10
1/24/22	8.96	269	73.497		48.31	3.86	724.64	5.15E+10	2.74E+10
1/25/22	8.96	270	73.770		48.31	3.86	724.64	5.15E+10	2.74E+10
1/26/22	8.96	271	74.044		48.31	3.86	724.64	5.15E+10	2.74E+10
1/27/22	8.96	272	74.317		48.31	3.86	724.64	5.15E+10	2.74E+10
1/21/22	8.75	273	74.590		47.16	3.77	707.34	5.03E+10	2.68E+10
1/23/22	8.66	274	74.863		46.69	3.73	700.29	4.98E+10	2.65E+10
11/19/22	8.65	275	75.137		46.64	3.73	699.55	4.97E+10	2.65E+10
9/16/22	8.62	276	75.410		46.47	3.72	697.05	4.96E+10	2.64E+10
11/14/22	8.61	277	75.683		46.43	3.71	696.47	4.95E+10	2.63E+10
10/16/22	8.61	278	75.956		46.40	3.71	696.06	4.95E+10	2.63E+10
11/15/22	8.60	279	76.230		46.36	3.71	695.40	4.95E+10	2.63E+10
1/22/22	8.55	280	76.503		46.09	3.69	691.32	4.92E+10	2.61E+10
11/17/22	8.50	281	76.776		45.81	3.67	687.19	4.89E+10	2.60E+10
7/11/22	8.44	282	77.049		45.52	3.64	682.77	4.86E+10	2.58E+10
11/18/22	8.39	283	77.322		45.23	3.62	678.39	4.82E+10	2.57E+10
11/2/22	8.37	284	77.596		45.13	3.61	677.00	4.81E+10	2.56E+10
9/20/22	8.37	285	77.869		45.12	3.61	676.84	4.81E+10	2.56E+10
11/12/22	8.32	286	78.142		44.85	3.59	672.76	4.78E+10	2.54E+10
8/17/22	8.17	287	78.415		44.01	3.52	660.17	4.69E+10	2.50E+10
11/10/22	8.08	288	78.689		43.55	3.48	653.26	4.65E+10	2.47E+10
10/17/22	8.06	289	78.962		43.43	3.47	651.40	4.63E+10	2.46E+10
11/3/22	8.05	290	79.235		43.37	3.47	650.49	4.63E+10	2.46E+10
6/30/22	7.93	291	79.508		42.72	3.42	640.77	4.56E+10	2.42E+10
8/24/22	7.83	292	79.781		42.19	3.38	632.82	4.50E+10	2.39E+10
11/20/22	7.71	293	80.055		41.56	3.32	623.42	4.43E+10	2.36E+10
11/23/22	7.71	294	80.328		41.56	3.32	623.36	4.43E+10	2.36E+10
11/7/22	7.69	295	80.601		41.46	3.32	621.94	4.42E+10	2.35E+10
11/24/22	7.65	296	80.874		41.21	3.30	618.22	4.40E+10	2.34E+10
11/25/22	7.52	297	81.148		40.52	3.24	607.85	4.32E+10	2.30E+10
11/11/22	7.48	298	81.421		40.33	3.23	604.88	4.30E+10	2.29E+10
9/25/22	7.45	299	81.694		40.16	3.21	602.34	4.28E+10	2.28E+10
11/22/22	7.43	300	81.967		40.05	3.20	600.74	4.27E+10	2.27E+10

date	S11 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
11/8/22	7.40	301	82.240		39.90	3.19	598.54	4.26E+10	2.26E+10
10/12/22	7.37	302	82.514		39.73	3.18	596.01	4.24E+10	2.25E+10
8/6/22	7.35	303	82.787		39.59	3.17	593.87	4.22E+10	2.25E+10
11/21/22	7.25	304	83.060		39.07	3.13	586.00	4.17E+10	2.22E+10
9/22/22	7.23	305	83.333		38.96	3.12	584.40	4.16E+10	2.21E+10
8/27/22	6.89	306	83.607		37.12	2.97	556.75	3.96E+10	2.11E+10
11/26/22	6.80	307	83.880		36.64	2.93	549.66	3.91E+10	2.08E+10
9/23/22	6.77	308	84.153		36.51	2.92	547.60	3.89E+10	2.07E+10
9/17/22	6.67	309	84.426		35.95	2.88	539.27	3.83E+10	2.04E+10
8/8/22	6.67	310	84.699		35.93	2.87	538.95	3.83E+10	2.04E+10
8/7/22	6.59	311	84.973		35.53	2.84	532.95	3.79E+10	2.02E+10
10/20/22	6.47	312	85.246		34.87	2.79	523.05	3.72E+10	1.98E+10
9/4/22	6.45	313	85.519		34.79	2.78	521.81	3.71E+10	1.97E+10
7/18/22	6.42	314	85.792		34.60	2.77	518.97	3.69E+10	1.96E+10
9/21/22	6.34	315	86.066		34.18	2.73	512.68	3.65E+10	1.94E+10
7/2/22	6.20	316	86.339		33.44	2.67	501.55	3.57E+10	1.90E+10
9/26/22	6.10	317	86.612		32.88	2.63	493.14	3.51E+10	1.87E+10
7/19/22	6.09	318	86.885		32.81	2.62	492.17	3.50E+10	1.86E+10
9/18/22	6.02	319	87.158		32.46	2.60	486.89	3.46E+10	1.84E+10
9/5/22	5.97	320	87.432		32.16	2.57	482.35	3.43E+10	1.82E+10
9/27/22	5.66	321	87.705		30.51	2.44	457.62	3.25E+10	1.73E+10
10/24/22	5.49	322	87.978		29.58	2.37	443.67	3.16E+10	1.68E+10
7/12/22	5.20	323	88.251		28.02	2.24	420.34	2.99E+10	1.59E+10
7/3/22	5.03	324	88.525		27.11	2.17	406.71	2.89E+10	1.54E+10
7/31/22	4.90	325	88.798		26.41	2.11	396.08	2.82E+10	1.50E+10
9/6/22	4.80	326	89.071		25.90	2.07	388.47	2.76E+10	1.47E+10
10/4/22	4.75	327	89.344		25.63	2.05	384.42	2.73E+10	1.45E+10
8/18/22	4.64	328	89.617		25.01	2.00	375.09	2.67E+10	1.42E+10
9/29/22	4.13	329	89.891		22.26	1.78	333.93	2.37E+10	1.26E+10
10/10/22	4.04	330	90.164		21.77	1.74	326.54	2.32E+10	1.24E+10
7/4/22	3.86	331	90.437		20.81	1.67	312.20	2.22E+10	1.18E+10
10/9/22	3.83	332	90.710		20.65	1.65	309.74	2.20E+10	1.17E+10
8/25/22	3.78	333	90.984		20.35	1.63	305.30	2.17E+10	1.15E+10
9/7/22	3.64	334	91.257		19.64	1.57	294.56	2.09E+10	1.11E+10
10/11/22	3.17	335	91.530		17.11	1.37	256.58	1.82E+10	9.71E+09
11/9/22	3.15	336	91.803		17.00	1.36	254.98	1.81E+10	9.64E+09
10/5/22	2.77	337	92.077		14.92	1.19	223.73	1.59E+10	8.46E+09
9/28/22	2.55	338	92.350		13.72	1.10	205.85	1.46E+10	7.79E+09
10/23/22	2.45	339	92.623		13.21	1.06	198.12	1.41E+10	7.49E+09
10/1/22	2.25	340	92.896		12.14	0.97	182.04	1.29E+10	6.89E+09
10/8/22	2.10	341	93.169		11.32	0.91	169.75	1.21E+10	6.42E+09
7/17/22	1.99	342	93.443		10.73	0.86	160.92	1.14E+10	6.09E+09
10/21/22	1.99	343	93.716		10.73	0.86	160.90	1.14E+10	6.09E+09
7/6/22	1.92	344	93.989		10.34	0.83	155.13	1.10E+10	5.87E+09
7/7/22	1.91	345	94.262		10.32	0.83	154.73	1.10E+10	5.85E+09
8/28/22	1.53	346	94.536		8.27	0.66	124.02	8.82E+09	4.69E+09
9/8/22	1.46	347	94.809		7.89	0.63	118.37	8.42E+09	4.48E+09
10/3/22	1.34	348	95.082		7.22	0.58	108.34	7.70E+09	4.10E+09
9/30/22	1.31	349	95.355		7.04	0.56	105.66	7.51E+09	4.00E+09
9/10/22	1.24	350	95.628		6.70	0.54	100.45	7.14E+09	3.80E+09
7/22/22	1.15	351	95.902		6.17	0.49	92.60	6.59E+09	3.50E+09
7/21/22	1.12	352	96.175		6.04	0.48	90.60	6.44E+09	3.43E+09
7/14/22	1.10	353	96.448		5.95	0.48	89.32	6.35E+09	3.38E+09
10/7/22	1.10	354	96.721		5.92	0.47	88.76	6.31E+09	3.36E+09
7/23/22	1.09	355	96.995		5.86	0.47	87.96	6.25E+09	3.33E+09
8/26/22	1.08	356	97.268		5.85	0.47	87.68	6.23E+09	3.32E+09
7/16/22	1.02	357	97.541		5.49	0.44	82.33	5.85E+09	3.11E+09
10/22/22	0.97	358	97.814		5.25	0.42	78.69	5.60E+09	2.98E+09
7/13/22	0.97	359	98.087		5.24	0.42	78.59	5.59E+09	2.97E+09
10/6/22	0.92	360	98.361		4.97	0.40	74.54	5.30E+09	2.82E+09

date	S11 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
7/5/22	0.85	361	98.634		4.59	0.37	68.80	4.89E+09	2.60E+09
7/20/22	0.76	362	98.907		4.08	0.33	61.15	4.35E+09	2.31E+09
10/2/22	0.66	363	99.180		3.55	0.28	53.26	3.79E+09	2.01E+09
7/15/22	0.64	364	99.454		3.44	0.28	51.60	3.67E+09	1.95E+09
9/9/22	0.32	365	99.727		1.73	0.14	25.93	1.84E+09	9.81E+08
<b>TOTAL NUMBER</b>	365								
					1.00	0.08	15.00	235.00	125.00
					5.39	5.39	5.39	24465758.40	24465758.40

Date	Flow	NO3_N (mg/L)	TP (mg/L)	TSS (mg/L)	Ecoli (col/100 mL)
1/26/22	8.96	3.99	0.134	2	23.7
2/23/22	381.20	5.49	1.21	42	107.6
3/23/22	1075.24	5.29	1.44	83	172
4/27/22	100.26	7.02	0.067	8	365.4
5/24/22	24.60	4.77	0.19	6	76.3
6/27/22	17.32	1.82	0.121	2	167
7/25/22	22.57	0.652	0.822	4	290.9
8/22/22	10.53	0.273	0.064	3	128.1
9/28/22	2.55	0.157	0.16	2	186
10/24/22	5.49	0.279	0.17	2	93.3
11/16/22	9.25	0.235	0.05	5	48.3
12/21/22	17.25	0.798	0.018	2	14.5
1/25/23					

Date	% Flow Exceed		NO3 Act Load	TP Act Load	TSS Act Load	Ecoli Act Load
1/26/22	74.04371585		192.7531694	6.47341471	96.61813004	5.20E+09
2/23/22	3.551912568		11280.21313	2486.16719	86296.7125	1.00E+12
3/23/22	1.092896175		30658.54483	8345.61523	481031.9889	4.52E+12
4/27/22	21.03825137		3793.75044	36.2081595	4323.362324	8.96E+11
5/24/22	49.18032787		632.5544685	25.1960899	795.6659981	4.59E+10
6/27/22	54.91803279		169.9149895	11.296546	186.7197687	7.08E+10
7/25/22	21.8579235		79.31135596	99.9906972	486.572736	1.61E+11
8/22/22	66.66666667		15.49211329	3.63185073	170.2430032	3.30E+10
9/28/22	92.34972678		2.154522632	2.19569185	27.44614818	1.16E+10
10/24/22	87.97814208		8.252212631	5.02822992	59.1556461	1.25E+10
11/16/22	72.13114754		11.72088813	2.49380598	249.3805984	1.09E+10
12/21/22	55.19125683		74.19122324	1.67348624	185.9429154	6.12E+09
1/25/23	0					

Date	Ann Load Proxy Range		NO3 Ann Load	TP Ann Load
1/26/22		28	5397.088744	181.255612
2/23/22		28	315845.9677	69612.68141
3/23/22		35	1073049.069	292096.533
4/27/22		27	102431.2619	977.6203056
5/24/22		34	21506.85193	856.667058
6/27/22		28	4757.619707	316.3032882
7/25/22		28	2220.717967	2799.739523
8/22/22		37	573.2081917	134.3784772
9/28/22		26	56.01758844	57.08798822
10/24/22		23	189.8008905	115.6492881
11/16/22		35	410.2310844	87.28320945
12/21/22		35	2596.692813	58.57201835
1/25/23				

Date	TSS Ann Load	Ecoli Ann Load
1/26/22	2705.307641	1.46E+11
2/23/22	2416307.95	2.81E+13
3/23/22	16836119.61	1.58E+14
4/27/22	116730.7828	2.42E+13
5/24/22	27052.64394	1.56E+12
6/27/22	5228.153524	1.98E+12
7/25/22	13624.03661	4.50E+12
8/22/22	6298.991117	1.22E+12
9/28/22	713.5998527	3.01E+11
10/24/22	1360.57986	2.88E+11
11/16/22	8728.320945	3.83E+11
12/21/22	6508.002039	2.14E+11
1/25/23		



date	S12 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
2/18/22	5667.92	1	0.273		30550.10	2444.01	458251.47	3.26E+13	1.73E+13
2/17/22	5544.70	2	0.546		29885.95	2390.88	448289.19	3.19E+13	1.70E+13
3/7/22	3476.55	3	0.820		18738.62	1499.09	281079.27	2.00E+13	1.06E+13
3/8/22	3429.49	4	1.093		18484.97	1478.80	277274.53	1.97E+13	1.05E+13
3/23/22	3230.25	5	1.366		17411.02	1392.88	261165.32	1.86E+13	9.88E+12
2/19/22	2487.65	6	1.639		13408.45	1072.68	201126.70	1.43E+13	7.61E+12
3/24/22	2455.45	7	1.913		13234.90	1058.79	198523.53	1.41E+13	7.51E+12
1/2/22	2372.63	8	2.186		12788.45	1023.08	191826.81	1.36E+13	7.26E+12
5/7/22	2350.10	9	2.459		12667.02	1013.36	190005.25	1.35E+13	7.19E+12
2/23/22	2330.27	10	2.732		12560.15	1004.81	188402.28	1.34E+13	7.13E+12
2/16/22	2136.79	11	3.005		11517.29	921.38	172759.39	1.23E+13	6.53E+12
2/22/22	2104.56	12	3.279		11343.57	907.49	170153.56	1.21E+13	6.44E+12
5/4/22	1980.44	13	3.552		10674.56	853.96	160118.42	1.14E+13	6.06E+12
5/6/22	1913.75	14	3.825		10315.11	825.21	154726.61	1.10E+13	5.85E+12
3/9/22	1821.17	15	4.098		9816.11	785.29	147241.65	1.05E+13	5.57E+12
2/21/22	1522.22	16	4.372		8204.75	656.38	123071.21	8.75E+12	4.66E+12
1/3/22	1505.34	17	4.645		8113.78	649.10	121706.69	8.65E+12	4.60E+12
2/20/22	1498.05	18	4.918		8074.48	645.96	121117.17	8.61E+12	4.58E+12
5/27/22	1483.06	19	5.191		7993.67	639.49	119905.01	8.53E+12	4.54E+12
3/25/22	1430.29	20	5.464		7709.28	616.74	115639.24	8.22E+12	4.37E+12
5/8/22	1350.74	21	5.738		7280.50	582.44	109207.48	7.77E+12	4.13E+12
2/24/22	1255.30	22	6.011		6766.05	541.28	101490.69	7.22E+12	3.84E+12
5/5/22	1199.42	23	6.284		6464.88	517.19	96973.22	6.90E+12	3.67E+12
1/1/22	1194.26	24	6.557		6437.06	514.96	96555.92	6.87E+12	3.65E+12
3/10/22	1147.81	25	6.831		6186.68	494.93	92800.20	6.60E+12	3.51E+12
5/2/22	1063.92	26	7.104		5734.54	458.76	86018.03	6.12E+12	3.25E+12
3/26/22	1006.81	27	7.377		5426.70	434.14	81400.54	5.79E+12	3.08E+12
5/3/22	1001.44	28	7.650		5397.78	431.82	80966.68	5.76E+12	3.06E+12
2/12/22	941.06	29	7.923		5072.33	405.79	76084.90	5.41E+12	2.88E+12
5/28/22	934.93	30	8.197		5039.30	403.14	75589.44	5.38E+12	2.86E+12
1/4/22	912.59	31	8.470		4918.87	393.51	73783.11	5.25E+12	2.79E+12
2/25/22	843.91	32	8.743		4548.69	363.90	68230.33	4.85E+12	2.58E+12
5/9/22	820.77	33	9.016		4423.94	353.92	66359.09	4.72E+12	2.51E+12
6/12/22	801.50	34	9.290		4320.08	345.61	64801.16	4.61E+12	2.45E+12
3/11/22	790.84	35	9.563		4262.63	341.01	63939.40	4.55E+12	2.42E+12
6/14/22	765.12	36	9.836		4124.01	329.92	61860.17	4.40E+12	2.34E+12
3/2/22	764.02	37	10.109		4118.05	329.44	61770.75	4.39E+12	2.34E+12
3/1/22	762.40	38	10.383		4109.35	328.75	61640.26	4.38E+12	2.33E+12
3/27/22	761.59	39	10.656		4104.98	328.40	61574.68	4.38E+12	2.33E+12
5/1/22	716.75	40	10.929		3863.30	309.06	57949.45	4.12E+12	2.19E+12
2/13/22	705.27	41	11.202		3801.43	304.11	57021.45	4.05E+12	2.16E+12
4/15/22	702.37	42	11.475		3785.80	302.86	56786.96	4.04E+12	2.15E+12
1/5/22	699.44	43	11.749		3769.99	301.60	56549.83	4.02E+12	2.14E+12
4/14/22	663.68	44	12.022		3577.23	286.18	53658.52	3.82E+12	2.03E+12
5/16/22	663.67	45	12.295		3577.19	286.18	53657.85	3.82E+12	2.03E+12
2/28/22	652.92	46	12.568		3519.25	281.54	52788.80	3.75E+12	2.00E+12
2/3/22	649.65	47	12.842		3501.63	280.13	52524.51	3.74E+12	1.99E+12
6/13/22	645.80	48	13.115		3480.88	278.47	52213.19	3.71E+12	1.98E+12
3/22/22	635.42	49	13.388		3424.93	273.99	51373.95	3.65E+12	1.94E+12
3/20/22	633.16	50	13.661		3412.74	273.02	51191.13	3.64E+12	1.94E+12
3/3/22	622.86	51	13.934		3357.23	268.58	50358.51	3.58E+12	1.90E+12
3/28/22	579.36	52	14.208		3122.75	249.82	46841.25	3.33E+12	1.77E+12
3/12/22	577.30	53	14.481		3111.62	248.93	46674.33	3.32E+12	1.77E+12
2/26/22	575.09	54	14.754		3099.74	247.98	46496.14	3.31E+12	1.76E+12
5/10/22	561.30	55	15.027		3025.42	242.03	45381.35	3.23E+12	1.72E+12
5/29/22	550.82	56	15.301		2968.94	237.52	44534.16	3.17E+12	1.68E+12
4/7/22	546.81	57	15.574		2947.31	235.78	44209.59	3.14E+12	1.67E+12
2/27/22	545.70	58	15.847		2941.34	235.31	44120.17	3.14E+12	1.67E+12
3/21/22	532.78	59	16.120		2871.66	229.73	43074.92	3.06E+12	1.63E+12
3/31/22	521.43	60	16.393		2810.50	224.84	42157.52	3.00E+12	1.59E+12
6/15/22	514.81	61	16.667		2774.82	221.99	41622.31	2.96E+12	1.57E+12

date	S12 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
1/6/22	508.80	62	16.940		2742.45	219.40	41136.78	2.93E+12	1.56E+12
4/8/22	501.86	63	17.213		2705.01	216.40	40575.08	2.89E+12	1.53E+12
4/26/22	492.01	64	17.486		2651.93	212.15	39778.89	2.83E+12	1.50E+12
3/19/22	476.62	65	17.760		2569.00	205.52	38534.93	2.74E+12	1.46E+12
3/29/22	476.00	66	18.033		2565.64	205.25	38484.59	2.74E+12	1.46E+12
3/4/22	473.57	67	18.306		2552.52	204.20	38287.86	2.72E+12	1.45E+12
4/16/22	468.96	68	18.579		2527.71	202.22	37915.60	2.70E+12	1.43E+12
4/25/22	463.85	69	18.852		2500.15	200.01	37502.27	2.67E+12	1.42E+12
4/1/22	456.35	70	19.126		2459.75	196.78	36896.19	2.62E+12	1.40E+12
3/30/22	444.83	71	19.399		2397.66	191.81	35964.88	2.56E+12	1.36E+12
5/17/22	438.00	72	19.672		2360.83	188.87	35412.45	2.52E+12	1.34E+12
3/13/22	436.58	73	19.945		2353.15	188.25	35297.19	2.51E+12	1.34E+12
5/11/22	434.54	74	20.219		2342.19	187.38	35132.92	2.50E+12	1.33E+12
1/10/22	432.58	75	20.492		2331.60	186.53	34973.95	2.49E+12	1.32E+12
2/2/22	424.89	76	20.765		2290.17	183.21	34352.51	2.44E+12	1.30E+12
4/9/22	420.29	77	21.038		2265.36	181.23	33980.37	2.42E+12	1.29E+12
3/5/22	415.08	78	21.311		2237.27	178.98	33559.09	2.39E+12	1.27E+12
1/9/22	404.26	79	21.585		2178.98	174.32	32684.75	2.32E+12	1.24E+12
2/14/22	402.09	80	21.858		2167.28	173.38	32509.18	2.31E+12	1.23E+12
5/30/22	398.80	81	22.131		2149.53	171.96	32242.93	2.29E+12	1.22E+12
3/6/22	398.29	82	22.404		2146.79	171.74	32201.87	2.29E+12	1.22E+12
5/26/22	393.83	83	22.678		2122.77	169.82	31841.53	2.26E+12	1.20E+12
1/7/22	391.86	84	22.951		2112.13	168.97	31682.00	2.25E+12	1.20E+12
5/15/22	391.51	85	23.224		2110.23	168.82	31653.41	2.25E+12	1.20E+12
4/2/22	382.38	86	23.497		2061.03	164.88	30915.51	2.20E+12	1.17E+12
4/10/22	374.29	87	23.770		2017.45	161.40	30261.74	2.15E+12	1.14E+12
3/14/22	369.44	88	24.044		1991.26	159.30	29868.94	2.12E+12	1.13E+12
5/12/22	367.85	89	24.317		1982.70	158.62	29740.44	2.11E+12	1.12E+12
2/4/22	365.39	90	24.590		1969.43	157.55	29541.45	2.10E+12	1.12E+12
4/3/22	358.47	91	24.863		1932.13	154.57	28982.01	2.06E+12	1.10E+12
4/17/22	357.71	92	25.137		1928.07	154.25	28921.07	2.06E+12	1.09E+12
4/27/22	351.50	93	25.410		1894.60	151.57	28418.98	2.02E+12	1.07E+12
4/11/22	349.29	94	25.683		1882.68	150.61	28240.14	2.01E+12	1.07E+12
4/6/22	337.58	95	25.956		1819.57	145.57	27293.59	1.94E+12	1.03E+12
5/18/22	334.92	96	26.230		1805.22	144.42	27078.32	1.93E+12	1.02E+12
5/20/22	331.73	97	26.503		1788.04	143.04	26820.65	1.91E+12	1.01E+12
4/4/22	328.01	98	26.776		1767.95	141.44	26519.26	1.89E+12	1.00E+12
5/13/22	325.98	99	27.049		1757.04	140.56	26355.65	1.87E+12	9.97E+11
3/15/22	325.60	100	27.322		1754.97	140.40	26324.52	1.87E+12	9.96E+11
6/16/22	318.60	101	27.596		1717.26	137.38	25758.84	1.83E+12	9.74E+11
5/31/22	317.41	102	27.869		1710.85	136.87	25662.80	1.82E+12	9.71E+11
4/18/22	317.35	103	28.142		1710.50	136.84	25657.50	1.82E+12	9.71E+11
5/19/22	316.79	104	28.415		1707.50	136.60	25612.46	1.82E+12	9.69E+11
4/12/22	315.57	105	28.689		1700.92	136.07	25513.76	1.81E+12	9.65E+11
4/5/22	313.47	106	28.962		1689.61	135.17	25344.19	1.80E+12	9.59E+11
5/21/22	310.65	107	29.235		1674.42	133.95	25116.33	1.79E+12	9.50E+11
5/14/22	310.08	108	29.508		1671.33	133.71	25069.96	1.78E+12	9.48E+11
4/13/22	308.61	109	29.781		1663.43	133.07	24951.40	1.77E+12	9.44E+11
1/12/22	304.22	110	30.055		1639.75	131.18	24596.22	1.75E+12	9.30E+11
3/16/22	300.93	111	30.328		1622.01	129.76	24330.08	1.73E+12	9.20E+11
1/8/22	299.66	112	30.601		1615.16	129.21	24227.41	1.72E+12	9.16E+11
4/19/22	295.84	113	30.874		1594.58	127.57	23918.74	1.70E+12	9.05E+11
1/13/22	292.80	114	31.148		1578.20	126.26	23672.99	1.68E+12	8.95E+11
3/17/22	287.54	115	31.421		1549.85	123.99	23247.74	1.65E+12	8.79E+11
4/28/22	287.26	116	31.694		1548.35	123.87	23225.22	1.65E+12	8.79E+11
1/11/22	285.50	117	31.967		1538.85	123.11	23082.81	1.64E+12	8.73E+11
3/18/22	281.50	118	32.240		1517.30	121.38	22759.56	1.62E+12	8.61E+11
6/1/22	271.03	119	32.514		1460.87	116.87	21913.03	1.56E+12	8.29E+11
1/14/22	265.54	120	32.787		1431.28	114.50	21469.24	1.53E+12	8.12E+11
4/20/22	262.41	121	33.060		1414.41	113.15	21216.20	1.51E+12	8.03E+11
2/5/22	260.33	122	33.333		1403.20	112.26	21047.96	1.50E+12	7.96E+11

date	S12 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
4/29/22	256.96	123	33.607		1385.00	110.80	20775.06	1.48E+12	7.86E+11
2/11/22	251.80	124	33.880		1357.18	108.57	20357.75	1.45E+12	7.70E+11
4/21/22	250.41	125	34.153		1349.72	107.98	20245.81	1.44E+12	7.66E+11
5/22/22	249.67	126	34.426		1345.75	107.66	20186.20	1.44E+12	7.64E+11
6/2/22	247.39	127	34.699		1333.43	106.67	20001.39	1.42E+12	7.57E+11
6/17/22	240.46	128	34.973		1296.07	103.69	19441.01	1.38E+12	7.35E+11
4/30/22	240.22	129	35.246		1294.79	103.58	19421.80	1.38E+12	7.35E+11
1/15/22	238.54	130	35.519		1285.73	102.86	19286.01	1.37E+12	7.30E+11
4/22/22	236.68	131	35.792		1275.71	102.06	19135.65	1.36E+12	7.24E+11
2/15/22	226.12	132	36.066		1218.79	97.50	18281.84	1.30E+12	6.92E+11
6/3/22	224.61	133	36.339		1210.66	96.85	18159.96	1.29E+12	6.87E+11
4/24/22	223.56	134	36.612		1204.97	96.40	18074.51	1.29E+12	6.84E+11
4/23/22	222.09	135	36.885		1197.06	95.77	17955.94	1.28E+12	6.79E+11
2/6/22	221.01	136	37.158		1191.23	95.30	17868.51	1.27E+12	6.76E+11
5/23/22	218.49	137	37.432		1177.68	94.21	17665.16	1.26E+12	6.68E+11
1/16/22	216.31	138	37.705		1165.89	93.27	17488.30	1.24E+12	6.62E+11
5/24/22	204.10	139	37.978		1100.09	88.01	16501.35	1.17E+12	6.24E+11
6/4/22	203.31	140	38.251		1095.85	87.67	16437.76	1.17E+12	6.22E+11
5/25/22	202.89	141	38.525		1093.60	87.49	16403.97	1.17E+12	6.20E+11
2/10/22	200.11	142	38.798		1078.58	86.29	16178.76	1.15E+12	6.12E+11
6/18/22	199.55	143	39.071		1075.58	86.05	16133.72	1.15E+12	6.10E+11
1/17/22	199.38	144	39.344		1074.65	85.97	16119.81	1.15E+12	6.10E+11
2/9/22	195.90	145	39.617		1055.88	84.47	15838.26	1.13E+12	5.99E+11
6/7/22	195.10	146	39.891		1051.60	84.13	15774.05	1.12E+12	5.97E+11
1/18/22	191.91	147	40.164		1034.38	82.75	15515.72	1.10E+12	5.87E+11
2/7/22	189.55	148	40.437		1021.66	81.73	15324.95	1.09E+12	5.80E+11
6/5/22	188.91	149	40.710		1018.22	81.46	15273.28	1.09E+12	5.78E+11
6/6/22	187.31	150	40.984		1009.61	80.77	15144.12	1.08E+12	5.73E+11
6/8/22	186.16	151	41.257		1003.38	80.27	15050.72	1.07E+12	5.69E+11
2/8/22	180.90	152	41.530		975.03	78.00	14625.47	1.04E+12	5.53E+11
1/19/22	175.78	153	41.803		947.48	75.80	14212.14	1.01E+12	5.38E+11
6/19/22	173.41	154	42.077		934.67	74.77	14020.05	9.97E+11	5.30E+11
6/9/22	171.91	155	42.350		926.59	74.13	13898.83	9.88E+11	5.26E+11
6/11/22	169.14	156	42.623		911.66	72.93	13674.95	9.72E+11	5.17E+11
6/10/22	161.40	157	42.896		869.93	69.59	13048.99	9.28E+11	4.94E+11
6/20/22	157.28	158	43.169		847.76	67.82	12716.47	9.04E+11	4.81E+11
1/20/22	151.40	159	43.443		816.06	65.28	12240.88	8.70E+11	4.63E+11
8/30/22	150.08	160	43.716		808.91	64.71	12133.58	8.63E+11	4.59E+11
12/31/22	149.07	161	43.989		803.47	64.28	12052.10	8.57E+11	4.56E+11
8/31/22	147.33	162	44.262		794.11	63.53	11911.68	8.47E+11	4.51E+11
6/21/22	145.80	163	44.536		785.85	62.87	11787.81	8.38E+11	4.46E+11
6/22/22	139.94	164	44.809		754.28	60.34	11314.21	8.05E+11	4.28E+11
1/21/22	136.07	165	45.082		733.39	58.67	11000.90	7.82E+11	4.16E+11
1/28/22	134.49	166	45.355		724.91	57.99	10873.72	7.73E+11	4.11E+11
2/1/22	134.10	167	45.628		722.79	57.82	10841.92	7.71E+11	4.10E+11
1/23/22	133.71	168	45.902		720.68	57.65	10810.13	7.69E+11	4.09E+11
6/23/22	133.71	169	46.175		720.68	57.65	10810.13	7.69E+11	4.09E+11
6/26/22	133.21	170	46.448		717.98	57.44	10769.72	7.66E+11	4.07E+11
1/24/22	132.53	171	46.721		714.32	57.15	10714.75	7.62E+11	4.05E+11
1/27/22	131.35	172	46.995		707.96	56.64	10619.36	7.55E+11	4.02E+11
6/27/22	130.10	173	47.268		701.25	56.10	10518.68	7.48E+11	3.98E+11
1/30/22	128.99	174	47.541		695.24	55.62	10428.60	7.42E+11	3.94E+11
1/31/22	128.99	175	47.814		695.24	55.62	10428.60	7.42E+11	3.94E+11
6/24/22	126.82	176	48.087		683.58	54.69	10253.73	7.29E+11	3.88E+11
1/26/22	126.63	177	48.361		682.52	54.60	10237.83	7.28E+11	3.87E+11
1/29/22	126.63	178	48.634		682.52	54.60	10237.83	7.28E+11	3.87E+11
1/22/22	125.84	179	48.907		678.28	54.26	10174.24	7.24E+11	3.85E+11
1/25/22	125.84	180	49.180		678.28	54.26	10174.24	7.24E+11	3.85E+11
6/25/22	119.24	181	49.454		642.69	51.42	9640.36	6.86E+11	3.65E+11
6/28/22	113.10	182	49.727		609.62	48.77	9144.23	6.50E+11	3.46E+11
8/4/22	99.63	183	50.000		537.00	42.96	8054.94	5.73E+11	3.05E+11

date	S12 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/29/22	98.10	184	50.273		528.76	42.30	7931.40	5.64E+11	3.00E+11
6/30/22	88.83	185	50.546		478.77	38.30	7181.58	5.11E+11	2.72E+11
9/12/22	88.25	186	50.820		475.69	38.05	7135.28	5.07E+11	2.70E+11
8/10/22	80.72	187	51.093		435.08	34.81	6526.15	4.64E+11	2.47E+11
7/1/22	80.16	188	51.366		432.06	34.56	6480.91	4.61E+11	2.45E+11
7/2/22	79.43	189	51.639		428.14	34.25	6422.16	4.57E+11	2.43E+11
12/16/22	75.77	190	51.913		408.38	32.67	6125.74	4.36E+11	2.32E+11
7/3/22	74.23	191	52.186		400.08	32.01	6001.15	4.27E+11	2.27E+11
7/9/22	68.89	192	52.459		371.32	29.71	5569.73	3.96E+11	2.11E+11
7/4/22	68.34	193	52.732		368.35	29.47	5525.29	3.93E+11	2.09E+11
7/10/22	68.08	194	53.005		366.96	29.36	5504.42	3.91E+11	2.08E+11
9/1/22	66.69	195	53.279		359.47	28.76	5392.08	3.83E+11	2.04E+11
11/28/22	65.59	196	53.552		353.52	28.28	5302.79	3.77E+11	2.01E+11
7/26/22	65.29	197	53.825		351.93	28.15	5279.01	3.75E+11	2.00E+11
12/30/22	65.19	198	54.098		351.37	28.11	5270.53	3.75E+11	1.99E+11
8/5/22	64.00	199	54.372		344.93	27.59	5174.02	3.68E+11	1.96E+11
7/5/22	63.58	200	54.645		342.67	27.41	5140.04	3.66E+11	1.94E+11
7/8/22	62.41	201	54.918		336.39	26.91	5045.85	3.59E+11	1.91E+11
10/27/22	62.39	202	55.191		336.27	26.90	5044.00	3.59E+11	1.91E+11
9/13/22	61.46	203	55.464		331.27	26.50	4969.08	3.53E+11	1.88E+11
8/11/22	60.66	204	55.738		326.97	26.16	4904.50	3.49E+11	1.86E+11
7/19/22	60.54	205	56.011		326.32	26.11	4894.83	3.48E+11	1.85E+11
12/17/22	59.05	206	56.284		318.29	25.46	4774.41	3.40E+11	1.81E+11
11/29/22	57.67	207	56.557		310.84	24.87	4662.53	3.32E+11	1.76E+11
7/11/22	57.33	208	56.831		309.02	24.72	4635.31	3.30E+11	1.75E+11
7/6/22	56.64	209	57.104		305.30	24.42	4579.47	3.26E+11	1.73E+11
7/7/22	55.11	210	57.377		297.05	23.76	4455.73	3.17E+11	1.69E+11
7/27/22	54.73	211	57.650		295.01	23.60	4425.20	3.15E+11	1.67E+11
8/9/22	52.72	212	57.923		284.15	22.73	4262.32	3.03E+11	1.61E+11
7/18/22	51.98	213	58.197		280.18	22.41	4202.77	2.99E+11	1.59E+11
7/12/22	51.30	214	58.470		276.51	22.12	4147.72	2.95E+11	1.57E+11
7/20/22	51.09	215	58.743		275.40	22.03	4130.97	2.94E+11	1.56E+11
8/6/22	50.13	216	59.016		270.20	21.62	4052.94	2.88E+11	1.53E+11
7/25/22	48.01	217	59.290		258.77	20.70	3881.51	2.76E+11	1.47E+11
8/12/22	47.83	218	59.563		257.80	20.62	3867.07	2.75E+11	1.46E+11
7/17/22	47.50	219	59.836		256.03	20.48	3840.38	2.73E+11	1.45E+11
8/14/22	46.76	220	60.109		252.04	20.16	3780.63	2.69E+11	1.43E+11
7/28/22	46.11	221	60.383		248.51	19.88	3727.71	2.65E+11	1.41E+11
8/3/22	45.31	222	60.656		244.21	19.54	3663.19	2.60E+11	1.39E+11
11/30/22	45.03	223	60.929		242.69	19.42	3640.34	2.59E+11	1.38E+11
8/2/22	44.85	224	61.202		241.73	19.34	3625.96	2.58E+11	1.37E+11
12/18/22	44.63	225	61.475		240.55	19.24	3608.28	2.57E+11	1.36E+11
7/13/22	43.56	226	61.749		234.78	18.78	3521.64	2.50E+11	1.33E+11
12/15/22	43.04	227	62.022		232.01	18.56	3480.17	2.47E+11	1.32E+11
7/29/22	42.93	228	62.295		231.40	18.51	3471.03	2.47E+11	1.31E+11
9/14/22	42.70	229	62.568		230.17	18.41	3452.49	2.46E+11	1.31E+11
7/14/22	42.20	230	62.842		227.48	18.20	3412.21	2.43E+11	1.29E+11
7/16/22	42.12	231	63.115		227.03	18.16	3405.52	2.42E+11	1.29E+11
7/21/22	41.54	232	63.388		223.90	17.91	3358.49	2.39E+11	1.27E+11
11/27/22	40.31	233	63.661		217.26	17.38	3258.87	2.32E+11	1.23E+11
9/2/22	40.23	234	63.934		216.82	17.35	3252.25	2.31E+11	1.23E+11
8/13/22	40.21	235	64.208		216.72	17.34	3250.86	2.31E+11	1.23E+11
8/15/22	40.11	236	64.481		216.20	17.30	3243.04	2.31E+11	1.23E+11
7/15/22	39.43	237	64.754		212.54	17.00	3188.06	2.27E+11	1.21E+11
8/7/22	38.77	238	65.027		208.95	16.72	3134.28	2.23E+11	1.19E+11
12/20/22	38.76	239	65.301		208.90	16.71	3133.48	2.23E+11	1.19E+11
7/30/22	38.46	240	65.574		207.29	16.58	3109.30	2.21E+11	1.18E+11
8/29/22	38.26	241	65.847		206.23	16.50	3093.41	2.20E+11	1.17E+11
12/1/22	37.73	242	66.120		203.37	16.27	3050.48	2.17E+11	1.15E+11
8/1/22	37.56	243	66.393		202.47	16.20	3037.04	2.16E+11	1.15E+11
8/16/22	37.02	244	66.667		199.54	15.96	2993.05	2.13E+11	1.13E+11

date	S12 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
10/28/22	36.73	245	66.940		197.96	15.84	2969.34	2.11E+11	1.12E+11
10/26/22	36.51	246	67.213		196.81	15.74	2952.12	2.10E+11	1.12E+11
8/21/22	36.45	247	67.486		196.47	15.72	2947.02	2.10E+11	1.11E+11
7/24/22	36.22	248	67.760		195.22	15.62	2928.34	2.08E+11	1.11E+11
7/22/22	36.08	249	68.033		194.47	15.56	2917.01	2.07E+11	1.10E+11
12/24/22	35.86	250	68.306		193.26	15.46	2898.97	2.06E+11	1.10E+11
8/22/22	35.45	251	68.579		191.07	15.29	2866.01	2.04E+11	1.08E+11
12/29/22	35.36	252	68.852		190.58	15.25	2858.66	2.03E+11	1.08E+11
7/31/22	34.91	253	69.126		188.18	15.05	2822.76	2.01E+11	1.07E+11
7/23/22	34.44	254	69.399		185.61	14.85	2784.14	1.98E+11	1.05E+11
12/23/22	34.32	255	69.672		184.99	14.80	2774.80	1.97E+11	1.05E+11
12/19/22	33.81	256	69.945		182.25	14.58	2733.80	1.94E+11	1.03E+11
12/21/22	33.77	257	70.219		182.02	14.56	2730.35	1.94E+11	1.03E+11
8/8/22	33.70	258	70.492		181.64	14.53	2724.66	1.94E+11	1.03E+11
12/2/22	33.56	259	70.765		180.87	14.47	2713.00	1.93E+11	1.03E+11
8/17/22	33.35	260	71.038		179.74	14.38	2696.17	1.92E+11	1.02E+11
9/15/22	32.77	261	71.311		176.62	14.13	2649.28	1.88E+11	1.00E+11
8/23/22	32.53	262	71.585		175.36	14.03	2630.40	1.87E+11	9.95E+10
8/18/22	32.32	263	71.858		174.19	13.94	2612.85	1.86E+11	9.88E+10
12/22/22	31.24	264	72.131		168.37	13.47	2525.54	1.80E+11	9.55E+10
9/3/22	30.65	265	72.404		165.21	13.22	2478.18	1.76E+11	9.37E+10
8/19/22	30.20	266	72.678		162.77	13.02	2441.62	1.74E+11	9.24E+10
12/3/22	30.18	267	72.951		162.68	13.01	2440.23	1.74E+11	9.23E+10
8/24/22	29.46	268	73.224		158.80	12.70	2382.07	1.69E+11	9.01E+10
10/29/22	29.45	269	73.497		158.75	12.70	2381.28	1.69E+11	9.01E+10
12/14/22	28.79	270	73.770		155.20	12.42	2328.02	1.66E+11	8.81E+10
8/25/22	28.46	271	74.044		153.40	12.27	2300.93	1.64E+11	8.70E+10
12/4/22	28.31	272	74.317		152.60	12.21	2289.07	1.63E+11	8.66E+10
12/9/22	28.13	273	74.590		151.61	12.13	2274.10	1.62E+11	8.60E+10
8/26/22	28.12	274	74.863		151.59	12.13	2273.84	1.62E+11	8.60E+10
8/20/22	27.83	275	75.137		149.98	12.00	2249.66	1.60E+11	8.51E+10
12/10/22	27.75	276	75.410		149.57	11.97	2243.57	1.60E+11	8.49E+10
9/19/22	27.37	277	75.683		147.52	11.80	2212.76	1.57E+11	8.37E+10
12/25/22	27.34	278	75.956		147.34	11.79	2210.12	1.57E+11	8.36E+10
12/5/22	27.33	279	76.230		147.29	11.78	2209.32	1.57E+11	8.36E+10
12/11/22	27.25	280	76.503		146.90	11.75	2203.49	1.57E+11	8.33E+10
9/16/22	27.16	281	76.776		146.39	11.71	2195.81	1.56E+11	8.31E+10
12/28/22	27.09	282	77.049		146.04	11.68	2190.57	1.56E+11	8.29E+10
12/12/22	26.96	283	77.322		145.30	11.62	2179.45	1.55E+11	8.24E+10
12/6/22	26.87	284	77.596		144.81	11.58	2172.16	1.54E+11	8.22E+10
8/28/22	26.84	285	77.869		144.64	11.57	2169.64	1.54E+11	8.21E+10
8/27/22	26.69	286	78.142		143.87	11.51	2158.12	1.53E+11	8.16E+10
12/7/22	26.41	287	78.415		142.36	11.39	2135.33	1.52E+11	8.08E+10
9/4/22	26.32	288	78.689		141.87	11.35	2127.98	1.51E+11	8.05E+10
12/8/22	26.25	289	78.962		141.47	11.32	2122.02	1.51E+11	8.03E+10
9/11/22	25.96	290	79.235		139.90	11.19	2098.50	1.49E+11	7.94E+10
10/30/22	25.78	291	79.508		138.97	11.12	2084.59	1.48E+11	7.89E+10
12/13/22	25.72	292	79.781		138.61	11.09	2079.10	1.48E+11	7.86E+10
11/8/22	25.57	293	80.055		137.80	11.02	2067.04	1.47E+11	7.82E+10
11/7/22	25.56	294	80.328		137.79	11.02	2066.84	1.47E+11	7.82E+10
11/5/22	25.24	295	80.601		136.03	10.88	2040.41	1.45E+11	7.72E+10
11/25/22	24.91	296	80.874		134.28	10.74	2014.18	1.43E+11	7.62E+10
11/17/22	24.69	297	81.148		133.09	10.65	1996.30	1.42E+11	7.55E+10
11/18/22	24.69	298	81.421		133.09	10.65	1996.30	1.42E+11	7.55E+10
11/26/22	24.64	299	81.694		132.82	10.63	1992.32	1.42E+11	7.54E+10
10/31/22	24.61	300	81.967		132.64	10.61	1989.67	1.41E+11	7.53E+10
11/21/22	24.58	301	82.240		132.51	10.60	1987.69	1.41E+11	7.52E+10
11/16/22	24.50	302	82.514		132.07	10.57	1981.06	1.41E+11	7.49E+10
11/22/22	24.36	303	82.787		131.28	10.50	1969.14	1.40E+11	7.45E+10
9/5/22	24.18	304	83.060		130.33	10.43	1954.90	1.39E+11	7.39E+10
11/15/22	24.09	305	83.333		129.82	10.39	1947.28	1.38E+11	7.37E+10

date	S12 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
11/19/22	24.07	306	83.607		129.72	10.38	1945.82	1.38E+11	7.36E+10
11/23/22	24.04	307	83.880		129.55	10.36	1943.31	1.38E+11	7.35E+10
9/20/22	23.90	308	84.153		128.83	10.31	1932.44	1.37E+11	7.31E+10
11/24/22	23.80	309	84.426		128.27	10.26	1924.10	1.37E+11	7.28E+10
11/14/22	23.76	310	84.699		128.05	10.24	1920.79	1.37E+11	7.27E+10
11/6/22	23.68	311	84.973		127.62	10.21	1914.23	1.36E+11	7.24E+10
9/17/22	23.59	312	85.246		127.14	10.17	1907.14	1.36E+11	7.21E+10
12/27/22	23.56	313	85.519		126.97	10.16	1904.56	1.35E+11	7.20E+10
11/1/22	23.08	314	85.792		124.40	9.95	1865.94	1.33E+11	7.06E+10
11/13/22	23.02	315	86.066		124.09	9.93	1861.37	1.32E+11	7.04E+10
11/9/22	23.01	316	86.339		124.02	9.92	1860.31	1.32E+11	7.04E+10
9/21/22	22.99	317	86.612		123.91	9.91	1858.72	1.32E+11	7.03E+10
9/6/22	22.59	318	86.885		121.77	9.74	1826.53	1.30E+11	6.91E+10
11/2/22	22.26	319	87.158		119.96	9.60	1799.37	1.28E+11	6.81E+10
11/20/22	22.15	320	87.432		119.41	9.55	1791.09	1.27E+11	6.77E+10
10/25/22	22.05	321	87.705		118.88	9.51	1783.14	1.27E+11	6.74E+10
11/10/22	21.81	322	87.978		117.53	9.40	1763.00	1.25E+11	6.67E+10
9/7/22	21.71	323	88.251		117.04	9.36	1755.59	1.25E+11	6.64E+10
12/26/22	21.70	324	88.525		116.94	9.36	1754.13	1.25E+11	6.64E+10
11/3/22	21.54	325	88.798		116.10	9.29	1741.54	1.24E+11	6.59E+10
11/12/22	21.20	326	89.071		114.27	9.14	1714.12	1.22E+11	6.48E+10
11/4/22	21.13	327	89.344		113.88	9.11	1708.16	1.21E+11	6.46E+10
9/18/22	21.10	328	89.617		113.71	9.10	1705.58	1.21E+11	6.45E+10
11/11/22	21.00	329	89.891		113.21	9.06	1698.09	1.21E+11	6.42E+10
9/25/22	20.23	330	90.164		109.02	8.72	1635.30	1.16E+11	6.19E+10
9/8/22	20.16	331	90.437		108.68	8.69	1630.13	1.16E+11	6.17E+10
9/22/22	20.07	332	90.710		108.20	8.66	1623.04	1.15E+11	6.14E+10
9/24/22	19.99	333	90.984		107.75	8.62	1616.22	1.15E+11	6.11E+10
9/26/22	19.77	334	91.257		106.55	8.52	1598.20	1.14E+11	6.05E+10
10/21/22	19.68	335	91.530		106.07	8.49	1590.98	1.13E+11	6.02E+10
10/22/22	19.35	336	91.803		104.32	8.35	1564.82	1.11E+11	5.92E+10
9/9/22	18.93	337	92.077		102.03	8.16	1530.38	1.09E+11	5.79E+10
9/29/22	18.47	338	92.350		99.57	7.97	1493.55	1.06E+11	5.65E+10
9/27/22	18.42	339	92.623		99.27	7.94	1489.04	1.06E+11	5.63E+10
10/20/22	18.28	340	92.896		98.53	7.88	1477.91	1.05E+11	5.59E+10
9/30/22	18.24	341	93.169		98.31	7.86	1474.67	1.05E+11	5.58E+10
9/23/22	18.21	342	93.443		98.17	7.85	1472.62	1.05E+11	5.57E+10
10/19/22	18.14	343	93.716		97.79	7.82	1466.79	1.04E+11	5.55E+10
10/23/22	18.12	344	93.989		97.68	7.81	1465.20	1.04E+11	5.54E+10
10/17/22	17.93	345	94.262		96.66	7.73	1449.83	1.03E+11	5.48E+10
9/28/22	17.73	346	94.536		95.56	7.64	1433.40	1.02E+11	5.42E+10
9/10/22	17.73	347	94.809		95.56	7.64	1433.34	1.02E+11	5.42E+10
10/16/22	17.60	348	95.082		94.89	7.59	1423.33	1.01E+11	5.38E+10
10/18/22	17.51	349	95.355		94.39	7.55	1415.92	1.01E+11	5.36E+10
10/1/22	17.14	350	95.628		92.38	7.39	1385.71	9.85E+10	5.24E+10
10/24/22	16.58	351	95.902		89.36	7.15	1340.47	9.53E+10	5.07E+10
10/15/22	16.42	352	96.175		88.48	7.08	1327.22	9.44E+10	5.02E+10
10/2/22	16.07	353	96.448		86.60	6.93	1299.07	9.24E+10	4.91E+10
10/13/22	15.90	354	96.721		85.69	6.85	1285.29	9.14E+10	4.86E+10
10/7/22	15.42	355	96.995		83.09	6.65	1246.34	8.86E+10	4.71E+10
10/4/22	15.28	356	97.268		82.37	6.59	1235.55	8.79E+10	4.67E+10
10/6/22	15.16	357	97.541		81.69	6.54	1225.35	8.71E+10	4.63E+10
10/3/22	15.09	358	97.814		81.35	6.51	1220.25	8.68E+10	4.62E+10
10/14/22	15.06	359	98.087		81.17	6.49	1217.60	8.66E+10	4.61E+10
10/8/22	14.90	360	98.361		80.29	6.42	1204.42	8.56E+10	4.56E+10
10/12/22	14.78	361	98.634		79.66	6.37	1194.88	8.50E+10	4.52E+10
10/5/22	14.65	362	98.907		78.94	6.32	1184.08	8.42E+10	4.48E+10
10/9/22	14.08	363	99.180		75.91	6.07	1138.64	8.10E+10	4.31E+10
10/10/22	13.82	364	99.454		74.51	5.96	1117.58	7.95E+10	4.23E+10
10/11/22	13.81	365	99.727		74.45	5.96	1116.78	7.94E+10	4.22E+10

date	S12 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
<b>TOTAL NUMBER OF</b>		365							
					1.00	0.08	15.00	2.35E+02	1.25E+02
					5.39	5.39	5.39	2.45E+07	2.45E+07

Date	Flow	NO3_N (mg/L)	TP (mg/L)	TSS (mg/L)	Ecoli (col/100 mL)
1/26/22	126.63	0.879	0.071	5	10.1
2/23/22	2330.27	3.98	1.01	80	1
3/23/22	3230.25	3.05	2.39	179	2419.6
4/27/22	351.50	3.49	0.141	4	80.5
5/24/22	204.10	2.71	0.069	2	275.5
6/27/22	130.10	1.87	0.109	2	56.6
7/25/22	54.73	0.878	0.323	9	387.3
8/22/22	35.45	0.327	0.17	4	162.4
9/28/22	17.73	0.581	0.108	2	35.5
10/24/22	16.58	0.473	0.044	3	46.4
11/16/22	24.50	0.232	0.039	6	70.7
12/21/22	33.77	1.14	0.056	2	186
1/25/23					



Date	% Flow Exceed		NO3 Act Load	TP Act Load	TSS Act Load	Ecoli Act Load
1/26/22	48.36065574		599.9367674	48.4590563	3412.609599	3.13E+10
2/23/22	2.732240437		49989.40504	12685.7535	1004812.162	5.70E+10
3/23/22	1.366120219		53103.61443	41612.3405	3116572.781	1.91E+14
4/27/22	25.40983607		6612.150126	267.138443	7578.39556	6.92E+11
5/24/22	37.97814208		2981.243027	75.9061878	2200.179356	1.38E+12
6/27/22	47.26775956		1311.328799	76.4357428	1402.490694	1.80E+11
7/25/22	59.28961749		259.0215992	95.2892671	2655.118899	5.19E+11
8/22/22	68.57923497		62.47899977	32.4814372	764.2691103	1.41E+11
9/28/22	94.53551913		55.52043797	10.3204945	191.1202684	1.54E+10
10/24/22	95.90163934		42.26946655	3.9320434	268.0938682	1.88E+10
11/16/22	82.5136612		30.64042969	5.15076189	792.4249058	4.24E+10
12/21/22	70.21857923		207.5068001	10.1933165	364.0470177	1.54E+11
1/25/23						

Date	Ann Load Proxy Range			NO3 Ann Load	TP Ann Load	TSS Ann Load
1/26/22		28		16798.22949	1356.853576	95553.06876
2/23/22		28		1399703.341	355201.0991	28134740.52
3/23/22		35		1858626.505	1456431.917	109080047.3
4/27/22		27		178528.0534	7212.737974	204616.6801
5/24/22		34		101362.2629	2580.810385	74806.09811
6/27/22		28		36717.20637	2140.200799	39269.73944
7/25/22		28		7252.604779	2668.09948	74343.32917
8/22/22		37		2311.722991	1201.813176	28277.95708
9/28/22		26		1443.531387	268.3328568	4969.126979
10/24/22		23		972.1977307	90.4369982	6166.158968
11/16/22		35		1072.415039	180.2766661	27734.8717
12/21/22		35		7262.738004	356.7660774	12741.64562
1/25/23						

Date	Ecoli Ann Load
1/26/22	8.76E+11
2/23/22	1.60E+12
3/23/22	6.69E+15
4/27/22	1.87E+13
5/24/22	4.68E+13
6/27/22	5.04E+12
7/25/22	1.45E+13
8/22/22	5.21E+12
9/28/22	4.00E+11
10/24/22	4.33E+11
11/16/22	1.48E+12
12/21/22	5.38E+12
1/25/23	

date	S13 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
2/18/22	5809.94	1	0.273		31315.57	2505.25	469733.62	3.34E+13	1.78E+13
2/17/22	5683.63	2	0.546		30634.78	2450.78	459521.72	3.27E+13	1.74E+13
3/7/22	3563.66	3	0.820		19208.14	1536.65	288122.12	2.05E+13	1.09E+13
3/8/22	3515.42	4	1.093		18948.14	1515.85	284222.04	2.02E+13	1.08E+13
3/23/22	3311.18	5	1.366		17847.28	1427.78	267709.19	1.90E+13	1.01E+13
2/19/22	2549.98	6	1.639		13744.41	1099.55	206166.22	1.47E+13	7.80E+12
3/24/22	2516.98	7	1.913		13566.52	1085.32	203497.82	1.45E+13	7.70E+12
1/2/22	2432.08	8	2.186		13108.89	1048.71	196633.31	1.40E+13	7.44E+12
5/7/22	2408.98	9	2.459		12984.41	1038.75	194766.11	1.39E+13	7.37E+12
2/23/22	2388.66	10	2.732		12874.86	1029.99	193122.97	1.37E+13	7.31E+12
2/16/22	2190.33	11	3.005		11805.87	944.47	177088.12	1.26E+13	6.70E+12
2/22/22	2157.29	12	3.279		11627.80	930.22	174417.00	1.24E+13	6.60E+12
5/4/22	2030.06	13	3.552		10942.03	875.36	164130.42	1.17E+13	6.21E+12
5/6/22	1961.70	14	3.825		10573.57	845.89	158603.50	1.13E+13	6.00E+12
3/9/22	1866.80	15	4.098		10062.07	804.97	150931.00	1.07E+13	5.71E+12
2/21/22	1560.36	16	4.372		8410.33	672.83	126154.93	8.97E+12	4.77E+12
1/3/22	1543.06	17	4.645		8317.08	665.37	124756.23	8.87E+12	4.72E+12
2/20/22	1535.58	18	4.918		8276.80	662.14	124151.94	8.83E+12	4.70E+12
5/27/22	1520.22	19	5.191		8193.96	655.52	122909.40	8.74E+12	4.65E+12
3/25/22	1466.13	20	5.464		7902.45	632.20	118536.75	8.43E+12	4.48E+12
5/8/22	1384.59	21	5.738		7462.92	597.03	111943.83	7.96E+12	4.23E+12
2/24/22	1286.75	22	6.011		6935.58	554.85	104033.69	7.40E+12	3.94E+12
5/5/22	1229.47	23	6.284		6626.87	530.15	99403.03	7.07E+12	3.76E+12
1/1/22	1224.18	24	6.557		6598.35	527.87	98975.27	7.04E+12	3.74E+12
3/10/22	1176.57	25	6.831		6341.70	507.34	95125.44	6.76E+12	3.60E+12
5/2/22	1090.58	26	7.104		5878.22	470.26	88173.34	6.27E+12	3.34E+12
3/26/22	1032.04	27	7.377		5562.68	445.01	83440.15	5.93E+12	3.16E+12
5/3/22	1026.54	28	7.650		5533.03	442.64	82995.42	5.90E+12	3.14E+12
2/12/22	964.64	29	7.923		5199.42	415.95	77991.32	5.55E+12	2.95E+12
5/28/22	958.36	30	8.197		5165.56	413.24	77483.44	5.51E+12	2.93E+12
1/4/22	935.46	31	8.470		5042.12	403.37	75631.85	5.38E+12	2.86E+12
2/25/22	865.06	32	8.743		4662.66	373.01	69939.94	4.97E+12	2.65E+12
5/9/22	841.33	33	9.016		4534.79	362.78	68021.82	4.84E+12	2.57E+12
6/12/22	821.58	34	9.290		4428.32	354.27	66424.85	4.72E+12	2.51E+12
3/11/22	810.66	35	9.563		4369.43	349.55	65541.49	4.66E+12	2.48E+12
6/14/22	784.29	36	9.836		4227.34	338.19	63410.17	4.51E+12	2.40E+12
3/2/22	783.16	37	10.109		4221.23	337.70	63318.51	4.50E+12	2.40E+12
3/1/22	781.51	38	10.383		4212.32	336.99	63184.75	4.49E+12	2.39E+12
3/27/22	780.67	39	10.656		4207.84	336.63	63117.53	4.49E+12	2.39E+12
5/1/22	734.71	40	10.929		3960.10	316.81	59401.46	4.22E+12	2.25E+12
2/13/22	722.95	41	11.202		3896.68	311.73	58450.20	4.16E+12	2.21E+12
4/15/22	719.97	42	11.475		3880.66	310.45	58209.84	4.14E+12	2.20E+12
1/5/22	716.97	43	11.749		3864.45	309.16	57966.77	4.12E+12	2.19E+12
4/14/22	680.31	44	12.022		3666.87	293.35	55003.01	3.91E+12	2.08E+12
5/16/22	680.30	45	12.295		3666.82	293.35	55002.33	3.91E+12	2.08E+12
2/28/22	669.28	46	12.568		3607.43	288.59	54111.50	3.85E+12	2.05E+12
2/3/22	665.93	47	12.842		3589.37	287.15	53840.59	3.83E+12	2.04E+12
6/13/22	661.98	48	13.115		3568.10	285.45	53521.47	3.81E+12	2.02E+12
3/22/22	651.34	49	13.388		3510.75	280.86	52661.20	3.74E+12	1.99E+12
3/20/22	649.03	50	13.661		3498.25	279.86	52473.80	3.73E+12	1.98E+12
3/3/22	638.47	51	13.934		3441.35	275.31	51620.32	3.67E+12	1.95E+12
3/28/22	593.88	52	14.208		3200.99	256.08	48014.92	3.41E+12	1.82E+12
3/12/22	591.76	53	14.481		3189.59	255.17	47843.82	3.40E+12	1.81E+12
2/26/22	589.50	54	14.754		3177.41	254.19	47661.17	3.39E+12	1.80E+12
5/10/22	575.37	55	15.027		3101.23	248.10	46518.44	3.31E+12	1.76E+12
5/29/22	564.63	56	15.301		3043.33	243.47	45650.02	3.25E+12	1.73E+12
4/7/22	560.51	57	15.574		3021.15	241.69	45317.32	3.22E+12	1.71E+12
2/27/22	559.38	58	15.847		3015.04	241.20	45225.66	3.22E+12	1.71E+12
3/21/22	546.13	59	16.120		2943.62	235.49	44154.23	3.14E+12	1.67E+12
3/31/22	534.49	60	16.393		2880.92	230.47	43213.84	3.07E+12	1.63E+12
6/15/22	527.71	61	16.667		2844.35	227.55	42665.22	3.03E+12	1.61E+12

date	S13 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
1/6/22	521.55	62	16.940		2811.17	224.89	42167.52	3.00E+12	1.60E+12
4/8/22	514.43	63	17.213		2772.78	221.82	41591.75	2.96E+12	1.57E+12
4/26/22	504.34	64	17.486		2718.37	217.47	40775.61	2.90E+12	1.54E+12
3/19/22	488.57	65	17.760		2633.37	210.67	39500.48	2.81E+12	1.49E+12
3/29/22	487.93	66	18.033		2629.93	210.39	39448.88	2.81E+12	1.49E+12
3/4/22	485.43	67	18.306		2616.48	209.32	39247.22	2.79E+12	1.48E+12
4/16/22	480.71	68	18.579		2591.04	207.28	38865.63	2.76E+12	1.47E+12
4/25/22	475.47	69	18.852		2562.80	205.02	38441.95	2.73E+12	1.45E+12
4/1/22	467.79	70	19.126		2521.38	201.71	37820.68	2.69E+12	1.43E+12
3/30/22	455.98	71	19.399		2457.74	196.62	36866.03	2.62E+12	1.39E+12
5/17/22	448.98	72	19.672		2419.98	193.60	36299.76	2.58E+12	1.37E+12
3/13/22	447.52	73	19.945		2412.11	192.97	36181.62	2.57E+12	1.37E+12
5/11/22	445.43	74	20.219		2400.88	192.07	36013.23	2.56E+12	1.36E+12
1/10/22	443.42	75	20.492		2390.02	191.20	35850.27	2.55E+12	1.36E+12
2/2/22	435.54	76	20.765		2347.55	187.80	35213.26	2.50E+12	1.33E+12
4/9/22	430.82	77	21.038		2322.12	185.77	34831.80	2.48E+12	1.32E+12
3/5/22	425.48	78	21.311		2293.33	183.47	34399.97	2.45E+12	1.30E+12
1/9/22	414.39	79	21.585		2233.58	178.69	33503.71	2.38E+12	1.27E+12
2/14/22	412.17	80	21.858		2221.58	177.73	33323.75	2.37E+12	1.26E+12
5/30/22	408.79	81	22.131		2203.39	176.27	33050.83	2.35E+12	1.25E+12
3/6/22	408.27	82	22.404		2200.58	176.05	33008.73	2.35E+12	1.25E+12
5/26/22	403.70	83	22.678		2175.96	174.08	32639.36	2.32E+12	1.23E+12
1/7/22	401.68	84	22.951		2165.06	173.20	32475.83	2.31E+12	1.23E+12
5/15/22	401.32	85	23.224		2163.10	173.05	32446.53	2.31E+12	1.23E+12
4/2/22	391.96	86	23.497		2112.68	169.01	31690.15	2.25E+12	1.20E+12
4/10/22	383.67	87	23.770		2068.00	165.44	31019.99	2.21E+12	1.17E+12
3/14/22	378.69	88	24.044		2041.16	163.29	30617.35	2.18E+12	1.16E+12
5/12/22	377.06	89	24.317		2032.38	162.59	30485.63	2.17E+12	1.15E+12
2/4/22	374.54	90	24.590		2018.78	161.50	30281.66	2.15E+12	1.15E+12
4/3/22	367.45	91	24.863		1980.55	158.44	29708.20	2.11E+12	1.12E+12
4/17/22	366.68	92	25.137		1976.38	158.11	29645.73	2.11E+12	1.12E+12
4/27/22	360.31	93	25.410		1942.07	155.37	29131.06	2.07E+12	1.10E+12
4/11/22	358.04	94	25.683		1929.85	154.39	28947.74	2.06E+12	1.09E+12
4/6/22	346.04	95	25.956		1865.16	149.21	27977.47	1.99E+12	1.06E+12
5/18/22	343.31	96	26.230		1850.45	148.04	27756.80	1.97E+12	1.05E+12
5/20/22	340.05	97	26.503		1832.85	146.63	27492.68	1.96E+12	1.04E+12
4/4/22	336.22	98	26.776		1812.25	144.98	27183.74	1.93E+12	1.03E+12
5/13/22	334.15	99	27.049		1801.07	144.09	27016.03	1.92E+12	1.02E+12
3/15/22	333.76	100	27.322		1798.94	143.92	26984.12	1.92E+12	1.02E+12
6/16/22	326.58	101	27.596		1760.28	140.82	26404.27	1.88E+12	9.99E+11
5/31/22	325.37	102	27.869		1753.72	140.30	26305.82	1.87E+12	9.95E+11
4/18/22	325.30	103	28.142		1753.36	140.27	26300.38	1.87E+12	9.95E+11
5/19/22	324.73	104	28.415		1750.28	140.02	26254.21	1.87E+12	9.93E+11
4/12/22	323.48	105	28.689		1743.54	139.48	26153.04	1.86E+12	9.89E+11
4/5/22	321.33	106	28.962		1731.95	138.56	25979.23	1.85E+12	9.83E+11
5/21/22	318.44	107	29.235		1716.38	137.31	25745.66	1.83E+12	9.74E+11
5/14/22	317.85	108	29.508		1713.21	137.06	25698.13	1.83E+12	9.72E+11
4/13/22	316.35	109	29.781		1705.11	136.41	25576.59	1.82E+12	9.67E+11
1/12/22	311.84	110	30.055		1680.83	134.47	25212.52	1.79E+12	9.54E+11
3/16/22	308.47	111	30.328		1662.65	133.01	24939.70	1.77E+12	9.43E+11
1/8/22	307.17	112	30.601		1655.63	132.45	24834.46	1.77E+12	9.39E+11
4/19/22	303.25	113	30.874		1634.54	130.76	24518.06	1.74E+12	9.27E+11
1/13/22	300.14	114	31.148		1617.74	129.42	24266.15	1.73E+12	9.18E+11
3/17/22	294.75	115	31.421		1588.68	127.09	23830.25	1.69E+12	9.01E+11
4/28/22	294.46	116	31.694		1587.14	126.97	23807.16	1.69E+12	9.01E+11
1/11/22	292.66	117	31.967		1577.41	126.19	23661.18	1.68E+12	8.95E+11
3/18/22	288.56	118	32.240		1555.32	124.43	23329.84	1.66E+12	8.82E+11
6/1/22	277.82	119	32.514		1497.47	119.80	22462.10	1.60E+12	8.50E+11
1/14/22	272.20	120	32.787		1467.15	117.37	22007.18	1.56E+12	8.32E+11
4/20/22	268.99	121	33.060		1449.85	115.99	21747.81	1.55E+12	8.23E+11
2/5/22	266.86	122	33.333		1438.36	115.07	21575.35	1.53E+12	8.16E+11

date	S13 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
4/29/22	263.40	123	33.607		1419.71	113.58	21295.60	1.51E+12	8.06E+11
2/11/22	258.11	124	33.880		1391.19	111.30	20867.85	1.48E+12	7.89E+11
4/21/22	256.69	125	34.153		1383.54	110.68	20753.10	1.48E+12	7.85E+11
5/22/22	255.93	126	34.426		1379.47	110.36	20691.99	1.47E+12	7.83E+11
6/2/22	253.59	127	34.699		1366.84	109.35	20502.55	1.46E+12	7.76E+11
6/17/22	246.48	128	34.973		1328.54	106.28	19928.13	1.42E+12	7.54E+11
4/30/22	246.24	129	35.246		1327.23	106.18	19908.44	1.42E+12	7.53E+11
1/15/22	244.52	130	35.519		1317.95	105.44	19769.25	1.41E+12	7.48E+11
4/22/22	242.61	131	35.792		1307.67	104.61	19615.12	1.39E+12	7.42E+11
2/15/22	231.79	132	36.066		1249.33	99.95	18739.91	1.33E+12	7.09E+11
6/3/22	230.24	133	36.339		1241.00	99.28	18614.98	1.32E+12	7.04E+11
4/24/22	229.16	134	36.612		1235.16	98.81	18527.39	1.32E+12	7.01E+11
4/23/22	227.65	135	36.885		1227.06	98.16	18405.86	1.31E+12	6.96E+11
2/6/22	226.55	136	37.158		1221.08	97.69	18316.23	1.30E+12	6.93E+11
5/23/22	223.97	137	37.432		1207.19	96.57	18107.78	1.29E+12	6.85E+11
1/16/22	221.73	138	37.705		1195.10	95.61	17926.49	1.27E+12	6.78E+11
5/24/22	209.21	139	37.978		1127.65	90.21	16914.81	1.20E+12	6.40E+11
6/4/22	208.41	140	38.251		1123.31	89.86	16849.63	1.20E+12	6.37E+11
5/25/22	207.98	141	38.525		1121.00	89.68	16815.00	1.20E+12	6.36E+11
2/10/22	205.12	142	38.798		1105.61	88.45	16584.15	1.18E+12	6.27E+11
6/18/22	204.55	143	39.071		1102.53	88.20	16537.97	1.18E+12	6.26E+11
1/17/22	204.37	144	39.344		1101.58	88.13	16523.72	1.18E+12	6.25E+11
2/9/22	200.81	145	39.617		1082.34	86.59	16235.11	1.15E+12	6.14E+11
6/7/22	199.99	146	39.891		1077.95	86.24	16169.29	1.15E+12	6.12E+11
1/18/22	196.72	147	40.164		1060.30	84.82	15904.48	1.13E+12	6.02E+11
2/7/22	194.30	148	40.437		1047.26	83.78	15708.94	1.12E+12	5.94E+11
6/5/22	193.64	149	40.710		1043.73	83.50	15655.98	1.11E+12	5.92E+11
6/6/22	192.00	150	40.984		1034.91	82.79	15523.58	1.10E+12	5.87E+11
6/8/22	190.82	151	41.257		1028.52	82.28	15427.84	1.10E+12	5.84E+11
2/8/22	185.43	152	41.530		999.46	79.96	14991.93	1.07E+12	5.67E+11
1/19/22	180.19	153	41.803		971.22	77.70	14568.25	1.04E+12	5.51E+11
6/19/22	177.75	154	42.077		958.09	76.65	14371.34	1.02E+12	5.44E+11
6/9/22	176.22	155	42.350		949.81	75.98	14247.09	1.01E+12	5.39E+11
6/11/22	173.38	156	42.623		934.51	74.76	14017.59	9.97E+11	5.30E+11
6/10/22	165.44	157	42.896		891.73	71.34	13375.95	9.51E+11	5.06E+11
6/20/22	161.23	158	43.169		869.01	69.52	13035.10	9.27E+11	4.93E+11
1/20/22	155.20	159	43.443		836.51	66.92	12547.60	8.92E+11	4.75E+11
8/30/22	153.84	160	43.716		829.17	66.33	12437.60	8.84E+11	4.70E+11
12/31/22	152.80	161	43.989		823.61	65.89	12354.09	8.79E+11	4.67E+11
8/31/22	151.02	162	44.262		814.01	65.12	12210.14	8.68E+11	4.62E+11
6/21/22	149.45	163	44.536		805.54	64.44	12083.17	8.59E+11	4.57E+11
6/22/22	143.45	164	44.809		773.18	61.85	11597.70	8.25E+11	4.39E+11
1/21/22	139.47	165	45.082		751.77	60.14	11276.54	8.02E+11	4.27E+11
1/28/22	137.86	166	45.355		743.08	59.45	11146.18	7.93E+11	4.22E+11
2/1/22	137.46	167	45.628		740.91	59.27	11113.58	7.90E+11	4.20E+11
1/23/22	137.06	168	45.902		738.73	59.10	11080.99	7.88E+11	4.19E+11
6/23/22	137.06	169	46.175		738.73	59.10	11080.99	7.88E+11	4.19E+11
6/26/22	136.54	170	46.448		735.97	58.88	11039.58	7.85E+11	4.18E+11
1/24/22	135.85	171	46.721		732.21	58.58	10983.22	7.81E+11	4.15E+11
1/27/22	134.64	172	46.995		725.70	58.06	10885.45	7.74E+11	4.12E+11
6/27/22	133.36	173	47.268		718.82	57.51	10782.24	7.67E+11	4.08E+11
1/30/22	132.22	174	47.541		712.66	57.01	10689.90	7.60E+11	4.04E+11
1/31/22	132.22	175	47.814		712.66	57.01	10689.90	7.60E+11	4.04E+11
6/24/22	130.00	176	48.087		700.71	56.06	10510.65	7.47E+11	3.98E+11
1/26/22	129.80	177	48.361		699.62	55.97	10494.35	7.46E+11	3.97E+11
1/29/22	129.80	178	48.634		699.62	55.97	10494.35	7.46E+11	3.97E+11
1/22/22	128.99	179	48.907		695.28	55.62	10429.17	7.42E+11	3.94E+11
1/25/22	128.99	180	49.180		695.28	55.62	10429.17	7.42E+11	3.94E+11
6/25/22	122.23	181	49.454		658.79	52.70	9881.91	7.03E+11	3.74E+11
6/28/22	115.94	182	49.727		624.89	49.99	9373.35	6.67E+11	3.55E+11
8/4/22	102.12	183	50.000		550.45	44.04	8256.77	5.87E+11	3.12E+11

date	S13 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/29/22	100.56	184	50.273		542.01	43.36	8130.14	5.78E+11	3.08E+11
6/30/22	91.05	185	50.546		490.77	39.26	7361.53	5.23E+11	2.78E+11
9/12/22	90.46	186	50.820		487.60	39.01	7314.07	5.20E+11	2.77E+11
8/10/22	82.74	187	51.093		445.98	35.68	6689.67	4.76E+11	2.53E+11
7/1/22	82.17	188	51.366		442.89	35.43	6643.30	4.72E+11	2.51E+11
7/2/22	81.42	189	51.639		438.87	35.11	6583.07	4.68E+11	2.49E+11
12/16/22	77.67	190	51.913		418.62	33.49	6279.23	4.47E+11	2.38E+11
7/3/22	76.09	191	52.186		410.10	32.81	6151.51	4.37E+11	2.33E+11
7/9/22	70.62	192	52.459		380.62	30.45	5709.29	4.06E+11	2.16E+11
7/4/22	70.05	193	52.732		377.58	30.21	5663.73	4.03E+11	2.14E+11
7/10/22	69.79	194	53.005		376.16	30.09	5642.34	4.01E+11	2.13E+11
9/1/22	68.36	195	53.279		368.48	29.48	5527.19	3.93E+11	2.09E+11
11/28/22	67.23	196	53.552		362.38	28.99	5435.66	3.87E+11	2.06E+11
7/26/22	66.93	197	53.825		360.75	28.86	5411.29	3.85E+11	2.05E+11
12/30/22	66.82	198	54.098		360.17	28.81	5402.60	3.84E+11	2.04E+11
8/5/22	65.60	199	54.372		353.58	28.29	5303.67	3.77E+11	2.01E+11
7/5/22	65.17	200	54.645		351.26	28.10	5268.84	3.75E+11	1.99E+11
7/8/22	63.97	201	54.918		344.82	27.59	5172.28	3.68E+11	1.96E+11
10/27/22	63.95	202	55.191		344.69	27.58	5170.38	3.68E+11	1.96E+11
9/13/22	63.00	203	55.464		339.57	27.17	5093.59	3.62E+11	1.93E+11
8/11/22	62.18	204	55.738		335.16	26.81	5027.39	3.58E+11	1.90E+11
7/19/22	62.06	205	56.011		334.50	26.76	5017.48	3.57E+11	1.90E+11
12/17/22	60.53	206	56.284		326.27	26.10	4894.04	3.48E+11	1.85E+11
11/29/22	59.11	207	56.557		318.62	25.49	4779.36	3.40E+11	1.81E+11
7/11/22	58.77	208	56.831		316.76	25.34	4751.45	3.38E+11	1.80E+11
7/6/22	58.06	209	57.104		312.95	25.04	4694.21	3.34E+11	1.78E+11
7/7/22	56.49	210	57.377		304.49	24.36	4567.38	3.25E+11	1.73E+11
7/27/22	56.10	211	57.650		302.41	24.19	4536.08	3.23E+11	1.72E+11
8/9/22	54.04	212	57.923		291.27	23.30	4369.12	3.11E+11	1.65E+11
7/18/22	53.28	213	58.197		287.21	22.98	4308.08	3.06E+11	1.63E+11
7/12/22	52.59	214	58.470		283.44	22.68	4251.65	3.02E+11	1.61E+11
7/20/22	52.37	215	58.743		282.30	22.58	4234.47	3.01E+11	1.60E+11
8/6/22	51.39	216	59.016		276.97	22.16	4154.49	2.95E+11	1.57E+11
7/25/22	49.21	217	59.290		265.25	21.22	3978.77	2.83E+11	1.51E+11
8/12/22	49.03	218	59.563		264.26	21.14	3963.97	2.82E+11	1.50E+11
7/17/22	48.69	219	59.836		262.44	21.00	3936.60	2.80E+11	1.49E+11
8/14/22	47.93	220	60.109		258.36	20.67	3875.36	2.76E+11	1.47E+11
7/28/22	47.26	221	60.383		254.74	20.38	3821.11	2.72E+11	1.45E+11
8/3/22	46.44	222	60.656		250.33	20.03	3754.98	2.67E+11	1.42E+11
11/30/22	46.15	223	60.929		248.77	19.90	3731.55	2.65E+11	1.41E+11
8/2/22	45.97	224	61.202		247.79	19.82	3716.82	2.64E+11	1.41E+11
12/18/22	45.75	225	61.475		246.58	19.73	3698.69	2.63E+11	1.40E+11
7/13/22	44.65	226	61.749		240.66	19.25	3609.88	2.57E+11	1.37E+11
12/15/22	44.12	227	62.022		237.82	19.03	3567.37	2.54E+11	1.35E+11
7/29/22	44.01	228	62.295		237.20	18.98	3558.00	2.53E+11	1.35E+11
9/14/22	43.77	229	62.568		235.93	18.87	3538.99	2.52E+11	1.34E+11
7/14/22	43.26	230	62.842		233.18	18.65	3497.71	2.49E+11	1.32E+11
7/16/22	43.18	231	63.115		232.72	18.62	3490.85	2.48E+11	1.32E+11
7/21/22	42.58	232	63.388		229.51	18.36	3442.64	2.45E+11	1.30E+11
11/27/22	41.32	233	63.661		222.70	17.82	3340.53	2.38E+11	1.26E+11
9/2/22	41.23	234	63.934		222.25	17.78	3333.74	2.37E+11	1.26E+11
8/13/22	41.22	235	64.208		222.15	17.77	3332.31	2.37E+11	1.26E+11
8/15/22	41.12	236	64.481		221.62	17.73	3324.30	2.36E+11	1.26E+11
7/15/22	40.42	237	64.754		217.86	17.43	3267.94	2.32E+11	1.24E+11
8/7/22	39.74	238	65.027		214.19	17.13	3212.81	2.28E+11	1.22E+11
12/20/22	39.73	239	65.301		214.13	17.13	3211.99	2.28E+11	1.21E+11
7/30/22	39.42	240	65.574		212.48	17.00	3187.21	2.27E+11	1.21E+11
8/29/22	39.22	241	65.847		211.39	16.91	3170.92	2.25E+11	1.20E+11
12/1/22	38.68	242	66.120		208.46	16.68	3126.92	2.22E+11	1.18E+11
8/1/22	38.51	243	66.393		207.54	16.60	3113.13	2.21E+11	1.18E+11
8/16/22	37.95	244	66.667		204.54	16.36	3068.05	2.18E+11	1.16E+11

date	S13 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
10/28/22	37.65	245	66.940		202.92	16.23	3043.74	2.16E+11	1.15E+11
10/26/22	37.43	246	67.213		201.74	16.14	3026.09	2.15E+11	1.14E+11
8/21/22	37.36	247	67.486		201.39	16.11	3020.86	2.15E+11	1.14E+11
7/24/22	37.13	248	67.760		200.11	16.01	3001.71	2.13E+11	1.14E+11
7/22/22	36.98	249	68.033		199.34	15.95	2990.10	2.13E+11	1.13E+11
12/24/22	36.75	250	68.306		198.11	15.85	2971.61	2.11E+11	1.12E+11
8/22/22	36.34	251	68.579		195.85	15.67	2937.82	2.09E+11	1.11E+11
12/29/22	36.24	252	68.852		195.35	15.63	2930.28	2.08E+11	1.11E+11
7/31/22	35.79	253	69.126		192.90	15.43	2893.48	2.06E+11	1.09E+11
7/23/22	35.30	254	69.399		190.26	15.22	2853.90	2.03E+11	1.08E+11
12/23/22	35.18	255	69.672		189.62	15.17	2844.33	2.02E+11	1.08E+11
12/19/22	34.66	256	69.945		186.82	14.95	2802.30	1.99E+11	1.06E+11
12/21/22	34.62	257	70.219		186.58	14.93	2798.77	1.99E+11	1.06E+11
8/8/22	34.54	258	70.492		186.20	14.90	2792.93	1.99E+11	1.06E+11
12/2/22	34.40	259	70.765		185.40	14.83	2780.98	1.98E+11	1.05E+11
8/17/22	34.18	260	71.038		184.25	14.74	2763.73	1.97E+11	1.05E+11
9/15/22	33.59	261	71.311		181.04	14.48	2715.66	1.93E+11	1.03E+11
8/23/22	33.35	262	71.585		179.75	14.38	2696.31	1.92E+11	1.02E+11
8/18/22	33.13	263	71.858		178.55	14.28	2678.31	1.90E+11	1.01E+11
12/22/22	32.02	264	72.131		172.59	13.81	2588.82	1.84E+11	9.79E+10
9/3/22	31.42	265	72.404		169.35	13.55	2540.28	1.81E+11	9.61E+10
8/19/22	30.96	266	72.678		166.85	13.35	2502.80	1.78E+11	9.47E+10
12/3/22	30.94	267	72.951		166.76	13.34	2501.37	1.78E+11	9.46E+10
8/24/22	30.20	268	73.224		162.78	13.02	2441.76	1.74E+11	9.24E+10
10/29/22	30.19	269	73.497		162.73	13.02	2440.94	1.74E+11	9.23E+10
12/14/22	29.52	270	73.770		159.09	12.73	2386.35	1.70E+11	9.03E+10
8/25/22	29.17	271	74.044		157.24	12.58	2358.58	1.68E+11	8.92E+10
12/4/22	29.02	272	74.317		156.43	12.51	2346.43	1.67E+11	8.88E+10
12/9/22	28.83	273	74.590		155.41	12.43	2331.08	1.66E+11	8.82E+10
8/26/22	28.83	274	74.863		155.39	12.43	2330.81	1.66E+11	8.82E+10
8/20/22	28.52	275	75.137		153.74	12.30	2306.03	1.64E+11	8.72E+10
12/10/22	28.45	276	75.410		153.32	12.27	2299.78	1.64E+11	8.70E+10
9/19/22	28.05	277	75.683		151.21	12.10	2268.21	1.61E+11	8.58E+10
12/25/22	28.02	278	75.956		151.03	12.08	2265.49	1.61E+11	8.57E+10
12/5/22	28.01	279	76.230		150.98	12.08	2264.68	1.61E+11	8.57E+10
12/11/22	27.94	280	76.503		150.58	12.05	2258.70	1.61E+11	8.54E+10
9/16/22	27.84	281	76.776		150.06	12.00	2250.83	1.60E+11	8.51E+10
12/28/22	27.77	282	77.049		149.70	11.98	2245.46	1.60E+11	8.49E+10
12/12/22	27.63	283	77.322		148.94	11.91	2234.06	1.59E+11	8.45E+10
12/6/22	27.54	284	77.596		148.44	11.88	2226.59	1.58E+11	8.42E+10
8/28/22	27.51	285	77.869		148.27	11.86	2224.01	1.58E+11	8.41E+10
8/27/22	27.36	286	78.142		147.48	11.80	2212.19	1.57E+11	8.37E+10
12/7/22	27.07	287	78.415		145.92	11.67	2188.84	1.56E+11	8.28E+10
9/4/22	26.98	288	78.689		145.42	11.63	2181.30	1.55E+11	8.25E+10
12/8/22	26.90	289	78.962		145.01	11.60	2175.19	1.55E+11	8.23E+10
9/11/22	26.61	290	79.235		143.41	11.47	2151.08	1.53E+11	8.14E+10
10/30/22	26.43	291	79.508		142.46	11.40	2136.83	1.52E+11	8.08E+10
12/13/22	26.36	292	79.781		142.08	11.37	2131.19	1.52E+11	8.06E+10
11/8/22	26.21	293	80.055		141.26	11.30	2118.83	1.51E+11	8.01E+10
11/7/22	26.20	294	80.328		141.24	11.30	2118.63	1.51E+11	8.01E+10
11/5/22	25.87	295	80.601		139.44	11.15	2091.54	1.49E+11	7.91E+10
11/25/22	25.54	296	80.874		137.64	11.01	2064.65	1.47E+11	7.81E+10
11/17/22	25.31	297	81.148		136.42	10.91	2046.32	1.46E+11	7.74E+10
11/18/22	25.31	298	81.421		136.42	10.91	2046.32	1.46E+11	7.74E+10
11/26/22	25.26	299	81.694		136.15	10.89	2042.24	1.45E+11	7.72E+10
10/31/22	25.23	300	81.967		135.97	10.88	2039.53	1.45E+11	7.71E+10
11/21/22	25.20	301	82.240		135.83	10.87	2037.49	1.45E+11	7.71E+10
11/16/22	25.12	302	82.514		135.38	10.83	2030.70	1.44E+11	7.68E+10
11/22/22	24.97	303	82.787		134.57	10.77	2018.48	1.44E+11	7.64E+10
9/5/22	24.79	304	83.060		133.59	10.69	2003.88	1.43E+11	7.58E+10
11/15/22	24.69	305	83.333		133.07	10.65	1996.07	1.42E+11	7.55E+10



date	S13 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
11/19/22	24.67	306	83.607		132.97	10.64	1994.58	1.42E+11	7.54E+10
11/23/22	24.64	307	83.880		132.80	10.62	1992.00	1.42E+11	7.53E+10
9/20/22	24.50	308	84.153		132.06	10.56	1980.86	1.41E+11	7.49E+10
11/24/22	24.39	309	84.426		131.49	10.52	1972.31	1.40E+11	7.46E+10
11/14/22	24.35	310	84.699		131.26	10.50	1968.91	1.40E+11	7.45E+10
11/6/22	24.27	311	84.973		130.81	10.47	1962.19	1.40E+11	7.42E+10
9/17/22	24.18	312	85.246		130.33	10.43	1954.93	1.39E+11	7.39E+10
12/27/22	24.15	313	85.519		130.15	10.41	1952.28	1.39E+11	7.38E+10
11/1/22	23.66	314	85.792		127.51	10.20	1912.69	1.36E+11	7.23E+10
11/13/22	23.60	315	86.066		127.20	10.18	1908.01	1.36E+11	7.22E+10
11/9/22	23.59	316	86.339		127.13	10.17	1906.92	1.36E+11	7.21E+10
9/21/22	23.57	317	86.612		127.02	10.16	1905.29	1.35E+11	7.21E+10
9/6/22	23.16	318	86.885		124.82	9.99	1872.29	1.33E+11	7.08E+10
11/2/22	22.81	319	87.158		122.96	9.84	1844.46	1.31E+11	6.98E+10
11/20/22	22.71	320	87.432		122.40	9.79	1835.97	1.31E+11	6.94E+10
10/25/22	22.61	321	87.705		121.85	9.75	1827.82	1.30E+11	6.91E+10
11/10/22	22.35	322	87.978		120.48	9.64	1807.18	1.29E+11	6.84E+10
9/7/22	22.26	323	88.251		119.97	9.60	1799.58	1.28E+11	6.81E+10
12/26/22	22.24	324	88.525		119.87	9.59	1798.08	1.28E+11	6.80E+10
11/3/22	22.08	325	88.798		119.01	9.52	1785.18	1.27E+11	6.75E+10
11/12/22	21.73	326	89.071		117.14	9.37	1757.07	1.25E+11	6.65E+10
11/4/22	21.66	327	89.344		116.73	9.34	1750.96	1.25E+11	6.62E+10
9/18/22	21.62	328	89.617		116.55	9.32	1748.31	1.24E+11	6.61E+10
11/11/22	21.53	329	89.891		116.04	9.28	1740.64	1.24E+11	6.58E+10
9/25/22	20.73	330	90.164		111.75	8.94	1676.27	1.19E+11	6.34E+10
9/8/22	20.67	331	90.437		111.40	8.91	1670.98	1.19E+11	6.32E+10
9/22/22	20.58	332	90.710		110.91	8.87	1663.71	1.18E+11	6.29E+10
9/24/22	20.49	333	90.984		110.45	8.84	1656.72	1.18E+11	6.27E+10
9/26/22	20.26	334	91.257		109.22	8.74	1638.25	1.17E+11	6.20E+10
10/21/22	20.17	335	91.530		108.72	8.70	1630.85	1.16E+11	6.17E+10
10/22/22	19.84	336	91.803		106.94	8.55	1604.03	1.14E+11	6.07E+10
9/9/22	19.40	337	92.077		104.58	8.37	1568.72	1.12E+11	5.93E+10
9/29/22	18.94	338	92.350		102.06	8.17	1530.97	1.09E+11	5.79E+10
9/27/22	18.88	339	92.623		101.76	8.14	1526.35	1.09E+11	5.77E+10
10/20/22	18.74	340	92.896		101.00	8.08	1514.95	1.08E+11	5.73E+10
9/30/22	18.70	341	93.169		100.77	8.06	1511.62	1.07E+11	5.72E+10
9/23/22	18.67	342	93.443		100.63	8.05	1509.51	1.07E+11	5.71E+10
10/19/22	18.60	343	93.716		100.24	8.02	1503.54	1.07E+11	5.69E+10
10/23/22	18.58	344	93.989		100.13	8.01	1501.91	1.07E+11	5.68E+10
10/17/22	18.38	345	94.262		99.08	7.93	1486.16	1.06E+11	5.62E+10
9/28/22	18.17	346	94.536		97.95	7.84	1469.32	1.04E+11	5.56E+10
9/10/22	18.17	347	94.809		97.95	7.84	1469.25	1.04E+11	5.56E+10
10/16/22	18.05	348	95.082		97.27	7.78	1459.00	1.04E+11	5.52E+10
10/18/22	17.95	349	95.355		96.76	7.74	1451.39	1.03E+11	5.49E+10
10/1/22	17.57	350	95.628		94.70	7.58	1420.43	1.01E+11	5.37E+10
10/24/22	17.00	351	95.902		91.60	7.33	1374.06	9.77E+10	5.20E+10
10/15/22	16.83	352	96.175		90.70	7.26	1360.48	9.67E+10	5.15E+10
10/2/22	16.47	353	96.448		88.77	7.10	1331.62	9.47E+10	5.04E+10
10/13/22	16.30	354	96.721		87.83	7.03	1317.50	9.37E+10	4.98E+10
10/7/22	15.80	355	96.995		85.17	6.81	1277.57	9.09E+10	4.83E+10
10/4/22	15.66	356	97.268		84.43	6.75	1266.51	9.01E+10	4.79E+10
10/6/22	15.54	357	97.541		83.74	6.70	1256.05	8.93E+10	4.75E+10
10/3/22	15.47	358	97.814		83.39	6.67	1250.82	8.89E+10	4.73E+10
10/14/22	15.44	359	98.087		83.21	6.66	1248.11	8.88E+10	4.72E+10
10/8/22	15.27	360	98.361		82.31	6.58	1234.59	8.78E+10	4.67E+10
10/12/22	15.15	361	98.634		81.65	6.53	1224.82	8.71E+10	4.63E+10
10/5/22	15.01	362	98.907		80.92	6.47	1213.75	8.63E+10	4.59E+10
10/9/22	14.44	363	99.180		77.81	6.22	1167.17	8.30E+10	4.41E+10
10/10/22	14.17	364	99.454		76.37	6.11	1145.58	8.15E+10	4.33E+10
10/11/22	14.16	365	99.727		76.32	6.11	1144.76	8.14E+10	4.33E+10

date	S13 flow	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
<b>TOTAL NUMBER OF</b>		365							
					1.00	0.08	15.00	2.35E+02	1.25E+02
					5.39	5.39	5.39	2.45E+07	2.45E+07

Date	Flow	NO3_N (mg/L)	TP (mg/L)	TSS (mg/L)	Ecoli (col/100 mL)
1/26/22	129.80	4.42	0.069	4	2
2/23/22	2388.66	4.68	1.12	75	259.5
3/23/22	3311.18	3.47	1.93	248	2419.6
4/27/22	360.31	4.45	0.066	9	258.9
5/24/22	209.21	3.08	0.244	3	38.9
6/27/22	133.36	1.97	0.291	3	960.6
7/25/22	56.10	1.07	0.051	2	238.2
8/22/22	36.34	0.551	0.249	4	77.1
9/28/22	18.17	0.527	0.161	3	44.1
10/24/22	17.00	0.391	0.018	2	27.2
11/16/22	25.12	0.377	0.045	5	28.2
12/21/22	34.62	1.15	0.053	2	11
1/25/23					

Date	% Flow Exceed		NO3 Act Load	TP Act Load	TSS Act Load	Ecoli Act Load
1/26/22	48.36065574		3092.335801	48.2740204	2798.493937	6.35E+09
2/23/22	2.732240437		60254.36645	14419.8484	965614.8469	1.52E+13
3/23/22	1.366120219		61930.05885	34445.2489	4426125.243	1.96E+14
4/27/22	25.40983607		8642.21497	128.176671	17478.63702	2.28E+12
5/24/22	37.97814208		3473.174324	275.147576	3382.962004	1.99E+11
6/27/22	47.26775956		1416.067626	209.175472	2156.448162	3.13E+12
7/25/22	59.28961749		323.573553	15.4226647	604.8103794	3.27E+11
8/22/22	68.57923497		107.9159628	48.7678308	783.4189679	6.85E+10
9/28/22	94.53551913		51.62203746	15.7706794	293.8635909	1.96E+10
10/24/22	95.90163934		35.81707853	1.64886807	183.2075628	1.13E+10
11/16/22	82.5136612		51.03827554	6.09210185	676.9002061	1.73E+10
12/21/22	70.21857923		214.572024	9.88897154	373.1687374	9.32E+09
1/25/23						

Date	Ann Load Proxy Range			NO3 Ann Load	TP Ann Load	TSS Ann Load
1/26/22		28		86585.40242	1351.672572	78357.83025
2/23/22		28		1687122.261	403755.7547	27037215.71
3/23/22		35		2167552.06	1205583.71	154914383.5
4/27/22		27		233339.8042	3460.77013	471923.1995
5/24/22		34		118087.927	9355.017594	115020.7081
6/27/22		28		39649.89354	5856.913208	60380.54854
7/25/22		28		9060.059483	431.8346109	16934.69062
8/22/22		37		3992.890625	1804.409738	28986.50181
9/28/22		26		1342.172974	410.0376638	7640.453363
10/24/22		23		823.7928061	37.9239655	4213.773944
11/16/22		35		1786.339644	213.2235649	23691.50721
12/21/22		35		7510.02084	346.1140039	13060.90581
1/25/23						

Date	Ecoli Ann Load
1/26/22	1.78E+11
2/23/22	4.25E+14
3/23/22	6.86E+15
4/27/22	6.16E+13
5/24/22	6.77E+12
6/27/22	8.78E+13
7/25/22	9.16E+12
8/22/22	2.54E+12
9/28/22	5.10E+11
10/24/22	2.60E+11
11/16/22	6.07E+11
12/21/22	3.26E+11
1/25/23	

date	S2	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
2/18/22	1284.48	1	0.273		6923.35	553.87	103850.27	7.39E+12	3.93E+12
2/17/22	1256.56	2	0.546		6772.84	541.83	101592.59	7.22E+12	3.84E+12
3/7/22	787.87	3	0.820		4246.60	339.73	63699.00	4.53E+12	2.41E+12
3/8/22	777.20	4	1.093		4189.12	335.13	62836.76	4.47E+12	2.38E+12
3/23/22	732.05	5	1.366		3945.74	315.66	59186.04	4.21E+12	2.24E+12
2/19/22	563.76	6	1.639		3038.66	243.09	45579.92	3.24E+12	1.72E+12
3/24/22	556.46	7	1.913		2999.33	239.95	44989.98	3.20E+12	1.70E+12
1/2/22	537.69	8	2.186		2898.16	231.85	43472.35	3.09E+12	1.64E+12
5/7/22	532.59	9	2.459		2870.64	229.65	43059.54	3.06E+12	1.63E+12
2/23/22	528.09	10	2.732		2846.42	227.71	42696.27	3.04E+12	1.62E+12
2/16/22	484.25	11	3.005		2610.08	208.81	39151.23	2.78E+12	1.48E+12
2/22/22	476.94	12	3.279		2570.71	205.66	38560.69	2.74E+12	1.46E+12
5/4/22	448.81	13	3.552		2419.10	193.53	36286.50	2.58E+12	1.37E+12
5/6/22	433.70	14	3.825		2337.64	187.01	35064.59	2.49E+12	1.33E+12
3/9/22	412.72	15	4.098		2224.56	177.96	33368.33	2.37E+12	1.26E+12
2/21/22	344.97	16	4.372		1859.38	148.75	27890.75	1.98E+12	1.05E+12
1/3/22	341.14	17	4.645		1838.77	147.10	27581.52	1.96E+12	1.04E+12
2/20/22	339.49	18	4.918		1829.86	146.39	27447.92	1.95E+12	1.04E+12
5/27/22	336.09	19	5.191		1811.55	144.92	27173.22	1.93E+12	1.03E+12
3/25/22	324.14	20	5.464		1747.10	139.77	26206.50	1.86E+12	9.91E+11
5/8/22	306.11	21	5.738		1649.93	131.99	24748.92	1.76E+12	9.36E+11
2/24/22	284.48	22	6.011		1533.34	122.67	23000.11	1.64E+12	8.70E+11
5/5/22	271.82	23	6.284		1465.09	117.21	21976.35	1.56E+12	8.31E+11
1/1/22	270.65	24	6.557		1458.79	116.70	21881.78	1.56E+12	8.28E+11
3/10/22	260.12	25	6.831		1402.04	112.16	21030.65	1.50E+12	7.96E+11
5/2/22	241.11	26	7.104		1299.58	103.97	19493.66	1.39E+12	7.37E+11
3/26/22	228.17	27	7.377		1229.82	98.39	18447.23	1.31E+12	6.98E+11
5/3/22	226.95	28	7.650		1223.26	97.86	18348.90	1.30E+12	6.94E+11
2/12/22	213.27	29	7.923		1149.51	91.96	17242.58	1.23E+12	6.52E+11
5/28/22	211.88	30	8.197		1142.02	91.36	17130.30	1.22E+12	6.48E+11
1/4/22	206.81	31	8.470		1114.73	89.18	16720.94	1.19E+12	6.32E+11
2/25/22	191.25	32	8.743		1030.84	82.47	15462.56	1.10E+12	5.85E+11
5/9/22	186.00	33	9.016		1002.57	80.21	15038.49	1.07E+12	5.69E+11
6/12/22	181.64	34	9.290		979.03	78.32	14685.43	1.04E+12	5.55E+11
3/11/22	179.22	35	9.563		966.01	77.28	14490.13	1.03E+12	5.48E+11
6/14/22	173.39	36	9.836		934.60	74.77	14018.93	9.97E+11	5.30E+11
3/2/22	173.14	37	10.109		933.24	74.66	13998.67	9.95E+11	5.30E+11
3/1/22	172.78	38	10.383		931.27	74.50	13969.09	9.93E+11	5.28E+11
3/27/22	172.59	39	10.656		930.28	74.42	13954.23	9.92E+11	5.28E+11
5/1/22	162.43	40	10.929		875.51	70.04	13132.67	9.34E+11	4.97E+11
2/13/22	159.83	41	11.202		861.49	68.92	12922.37	9.19E+11	4.89E+11
4/15/22	159.17	42	11.475		857.95	68.64	12869.23	9.15E+11	4.87E+11
1/5/22	158.51	43	11.749		854.37	68.35	12815.49	9.11E+11	4.85E+11
4/14/22	150.41	44	12.022		810.68	64.85	12160.25	8.65E+11	4.60E+11
5/16/22	150.40	45	12.295		810.67	64.85	12160.10	8.65E+11	4.60E+11
2/28/22	147.97	46	12.568		797.54	63.80	11963.15	8.51E+11	4.53E+11
2/3/22	147.23	47	12.842		793.55	63.48	11903.26	8.46E+11	4.50E+11
6/13/22	146.35	48	13.115		788.85	63.11	11832.70	8.41E+11	4.48E+11
3/22/22	144.00	49	13.388		776.17	62.09	11642.51	8.28E+11	4.40E+11
3/20/22	143.49	50	13.661		773.41	61.87	11601.08	8.25E+11	4.39E+11
3/3/22	141.16	51	13.934		760.83	60.87	11412.39	8.12E+11	4.32E+11
3/28/22	131.30	52	14.208		707.69	56.61	10615.30	7.55E+11	4.02E+11
3/12/22	130.83	53	14.481		705.16	56.41	10577.47	7.52E+11	4.00E+11
2/26/22	130.33	54	14.754		702.47	56.20	10537.09	7.49E+11	3.99E+11
5/10/22	127.20	55	15.027		685.63	54.85	10284.45	7.31E+11	3.89E+11
5/29/22	124.83	56	15.301		672.83	53.83	10092.46	7.18E+11	3.82E+11
4/7/22	123.92	57	15.574		667.93	53.43	10018.91	7.12E+11	3.79E+11
2/27/22	123.67	58	15.847		666.58	53.33	9998.64	7.11E+11	3.78E+11

date	S2	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
3/21/22	120.74	59	16.120		650.78	52.06	9761.76	6.94E+11	3.69E+11
3/31/22	118.17	60	16.393		636.92	50.95	9553.86	6.79E+11	3.61E+11
6/15/22	116.67	61	16.667		628.84	50.31	9432.57	6.71E+11	3.57E+11
1/6/22	115.31	62	16.940		621.50	49.72	9322.54	6.63E+11	3.53E+11
4/8/22	113.73	63	17.213		613.02	49.04	9195.24	6.54E+11	3.48E+11
4/26/22	111.50	64	17.486		600.99	48.08	9014.81	6.41E+11	3.41E+11
3/19/22	108.01	65	17.760		582.19	46.58	8732.90	6.21E+11	3.30E+11
3/29/22	107.87	66	18.033		581.43	46.51	8721.49	6.20E+11	3.30E+11
3/4/22	107.32	67	18.306		578.46	46.28	8676.91	6.17E+11	3.28E+11
4/16/22	106.28	68	18.579		572.84	45.83	8592.54	6.11E+11	3.25E+11
4/25/22	105.12	69	18.852		566.59	45.33	8498.87	6.04E+11	3.21E+11
4/1/22	103.42	70	19.126		557.43	44.59	8361.52	5.95E+11	3.16E+11
3/30/22	100.81	71	19.399		543.36	43.47	8150.46	5.80E+11	3.08E+11
5/17/22	99.26	72	19.672		535.02	42.80	8025.27	5.71E+11	3.04E+11
3/13/22	98.94	73	19.945		533.28	42.66	7999.15	5.69E+11	3.03E+11
5/11/22	98.48	74	20.219		530.79	42.46	7961.92	5.66E+11	3.01E+11
1/10/22	98.03	75	20.492		528.39	42.27	7925.90	5.64E+11	3.00E+11
2/2/22	96.29	76	20.765		519.00	41.52	7785.07	5.54E+11	2.94E+11
4/9/22	95.25	77	21.038		513.38	41.07	7700.73	5.48E+11	2.91E+11
3/5/22	94.07	78	21.311		507.02	40.56	7605.26	5.41E+11	2.88E+11
1/9/22	91.62	79	21.585		493.81	39.50	7407.11	5.27E+11	2.80E+11
2/14/22	91.12	80	21.858		491.16	39.29	7367.33	5.24E+11	2.79E+11
5/30/22	90.38	81	22.131		487.13	38.97	7306.99	5.20E+11	2.76E+11
3/6/22	90.26	82	22.404		486.51	38.92	7297.68	5.19E+11	2.76E+11
5/26/22	89.25	83	22.678		481.07	38.49	7216.02	5.13E+11	2.73E+11
1/7/22	88.80	84	22.951		478.66	38.29	7179.87	5.11E+11	2.72E+11
5/15/22	88.72	85	23.224		478.23	38.26	7173.39	5.10E+11	2.71E+11
4/2/22	86.66	86	23.497		467.08	37.37	7006.16	4.98E+11	2.65E+11
4/10/22	84.82	87	23.770		457.20	36.58	6858.00	4.88E+11	2.59E+11
3/14/22	83.72	88	24.044		451.27	36.10	6768.99	4.81E+11	2.56E+11
5/12/22	83.36	89	24.317		449.32	35.95	6739.87	4.79E+11	2.55E+11
2/4/22	82.80	90	24.590		446.32	35.71	6694.77	4.76E+11	2.53E+11
4/3/22	81.24	91	24.863		437.87	35.03	6567.99	4.67E+11	2.48E+11
4/17/22	81.07	92	25.137		436.95	34.96	6554.18	4.66E+11	2.48E+11
4/27/22	79.66	93	25.410		429.36	34.35	6440.39	4.58E+11	2.44E+11
4/11/22	79.16	94	25.683		426.66	34.13	6399.86	4.55E+11	2.42E+11
4/6/22	76.50	95	25.956		412.36	32.99	6185.35	4.40E+11	2.34E+11
5/18/22	75.90	96	26.230		409.10	32.73	6136.57	4.36E+11	2.32E+11
5/20/22	75.18	97	26.503		405.21	32.42	6078.17	4.32E+11	2.30E+11
4/4/22	74.33	98	26.776		400.66	32.05	6009.87	4.27E+11	2.27E+11
5/13/22	73.88	99	27.049		398.19	31.85	5972.79	4.25E+11	2.26E+11
3/15/22	73.79	100	27.322		397.72	31.82	5965.74	4.24E+11	2.26E+11
6/16/22	72.20	101	27.596		389.17	31.13	5837.54	4.15E+11	2.21E+11
5/31/22	71.93	102	27.869		387.72	31.02	5815.78	4.14E+11	2.20E+11
4/18/22	71.92	103	28.142		387.64	31.01	5814.58	4.13E+11	2.20E+11
5/19/22	71.79	104	28.415		386.96	30.96	5804.37	4.13E+11	2.20E+11
4/12/22	71.52	105	28.689		385.47	30.84	5782.00	4.11E+11	2.19E+11
4/5/22	71.04	106	28.962		382.90	30.63	5743.57	4.08E+11	2.17E+11
5/21/22	70.40	107	29.235		379.46	30.36	5691.94	4.05E+11	2.15E+11
5/14/22	70.27	108	29.508		378.76	30.30	5681.43	4.04E+11	2.15E+11
4/13/22	69.94	109	29.781		376.97	30.16	5654.56	4.02E+11	2.14E+11
1/12/22	68.94	110	30.055		371.60	29.73	5574.07	3.96E+11	2.11E+11
3/16/22	68.20	111	30.328		367.58	29.41	5513.75	3.92E+11	2.09E+11
1/8/22	67.91	112	30.601		366.03	29.28	5490.49	3.90E+11	2.08E+11
4/19/22	67.04	113	30.874		361.37	28.91	5420.53	3.85E+11	2.05E+11
1/13/22	66.36	114	31.148		357.66	28.61	5364.84	3.82E+11	2.03E+11
3/17/22	65.16	115	31.421		351.23	28.10	5268.47	3.75E+11	1.99E+11
4/28/22	65.10	116	31.694		350.89	28.07	5263.37	3.74E+11	1.99E+11



date	S2	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
1/11/22	64.70	117	31.967		348.74	27.90	5231.09	3.72E+11	1.98E+11
3/18/22	63.80	118	32.240		343.86	27.51	5157.84	3.67E+11	1.95E+11
6/1/22	61.42	119	32.514		331.07	26.49	4966.00	3.53E+11	1.88E+11
1/14/22	60.18	120	32.787		324.36	25.95	4865.42	3.46E+11	1.84E+11
4/20/22	59.47	121	33.060		320.54	25.64	4808.08	3.42E+11	1.82E+11
2/5/22	59.00	122	33.333		318.00	25.44	4769.95	3.39E+11	1.80E+11
4/29/22	58.23	123	33.607		313.87	25.11	4708.10	3.35E+11	1.78E+11
2/11/22	57.06	124	33.880		307.57	24.61	4613.53	3.28E+11	1.75E+11
4/21/22	56.75	125	34.153		305.88	24.47	4588.16	3.26E+11	1.74E+11
5/22/22	56.58	126	34.426		304.98	24.40	4574.65	3.25E+11	1.73E+11
6/2/22	56.06	127	34.699		302.18	24.17	4532.77	3.22E+11	1.71E+11
6/17/22	54.49	128	34.973		293.72	23.50	4405.78	3.13E+11	1.67E+11
4/30/22	54.44	129	35.246		293.43	23.47	4401.43	3.13E+11	1.66E+11
1/15/22	54.06	130	35.519		291.38	23.31	4370.65	3.11E+11	1.65E+11
4/22/22	53.64	131	35.792		289.11	23.13	4336.58	3.08E+11	1.64E+11
2/15/22	51.24	132	36.066		276.21	22.10	4143.08	2.95E+11	1.57E+11
6/3/22	50.90	133	36.339		274.36	21.95	4115.46	2.93E+11	1.56E+11
4/24/22	50.66	134	36.612		273.07	21.85	4096.10	2.91E+11	1.55E+11
4/23/22	50.33	135	36.885		271.28	21.70	4069.23	2.89E+11	1.54E+11
2/6/22	50.09	136	37.158		269.96	21.60	4049.41	2.88E+11	1.53E+11
5/23/22	49.52	137	37.432		266.89	21.35	4003.33	2.85E+11	1.51E+11
1/16/22	49.02	138	37.705		264.22	21.14	3963.25	2.82E+11	1.50E+11
5/24/22	46.25	139	37.978		249.31	19.94	3739.58	2.66E+11	1.41E+11
6/4/22	46.08	140	38.251		248.34	19.87	3725.17	2.65E+11	1.41E+11
5/25/22	45.98	141	38.525		247.83	19.83	3717.52	2.64E+11	1.41E+11
2/10/22	45.35	142	38.798		244.43	19.55	3666.48	2.61E+11	1.39E+11
6/18/22	45.22	143	39.071		243.75	19.50	3656.27	2.60E+11	1.38E+11
1/17/22	45.18	144	39.344		243.54	19.48	3653.12	2.60E+11	1.38E+11
2/9/22	44.39	145	39.617		239.29	19.14	3589.31	2.55E+11	1.36E+11
6/7/22	44.21	146	39.891		238.32	19.07	3574.76	2.54E+11	1.35E+11
1/18/22	43.49	147	40.164		234.41	18.75	3516.22	2.50E+11	1.33E+11
2/7/22	42.96	148	40.437		231.53	18.52	3472.98	2.47E+11	1.31E+11
6/5/22	42.81	149	40.710		230.75	18.46	3461.28	2.46E+11	1.31E+11
6/6/22	42.45	150	40.984		228.80	18.30	3432.00	2.44E+11	1.30E+11
6/8/22	42.19	151	41.257		227.39	18.19	3410.84	2.43E+11	1.29E+11
2/8/22	41.00	152	41.530		220.96	17.68	3314.47	2.36E+11	1.25E+11
1/19/22	39.84	153	41.803		214.72	17.18	3220.80	2.29E+11	1.22E+11
6/19/22	39.30	154	42.077		211.82	16.95	3177.26	2.26E+11	1.20E+11
6/9/22	38.96	155	42.350		209.99	16.80	3149.79	2.24E+11	1.19E+11
6/11/22	38.33	156	42.623		206.60	16.53	3099.06	2.20E+11	1.17E+11
6/10/22	36.58	157	42.896		197.15	15.77	2957.20	2.10E+11	1.12E+11
6/20/22	35.64	158	43.169		192.12	15.37	2881.84	2.05E+11	1.09E+11
1/20/22	34.31	159	43.443		184.94	14.80	2774.06	1.97E+11	1.05E+11
8/30/22	34.01	160	43.716		183.32	14.67	2749.75	1.96E+11	1.04E+11
12/31/22	33.78	161	43.989		182.09	14.57	2731.28	1.94E+11	1.03E+11
8/31/22	33.39	162	44.262		179.96	14.40	2699.46	1.92E+11	1.02E+11
6/21/22	33.04	163	44.536		178.09	14.25	2671.39	1.90E+11	1.01E+11
6/22/22	31.71	164	44.809		170.94	13.67	2564.06	1.82E+11	9.70E+10
1/21/22	30.84	165	45.082		166.20	13.30	2493.06	1.77E+11	9.43E+10
1/28/22	30.48	166	45.355		164.28	13.14	2464.23	1.75E+11	9.32E+10
2/1/22	30.39	167	45.628		163.80	13.10	2457.03	1.75E+11	9.29E+10
1/23/22	30.30	168	45.902		163.32	13.07	2449.82	1.74E+11	9.27E+10
6/23/22	30.30	169	46.175		163.32	13.07	2449.82	1.74E+11	9.27E+10
6/26/22	30.19	170	46.448		162.71	13.02	2440.67	1.74E+11	9.23E+10
1/24/22	30.03	171	46.721		161.88	12.95	2428.21	1.73E+11	9.18E+10
1/27/22	29.77	172	46.995		160.44	12.84	2406.59	1.71E+11	9.10E+10
6/27/22	29.48	173	47.268		158.92	12.71	2383.77	1.70E+11	9.02E+10
1/30/22	29.23	174	47.541		157.56	12.60	2363.36	1.68E+11	8.94E+10

date	S2	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
1/31/22	29.23	175	47.814		157.56	12.60	2363.36	1.68E+11	8.94E+10
6/24/22	28.74	176	48.087		154.92	12.39	2323.73	1.65E+11	8.79E+10
1/26/22	28.70	177	48.361		154.68	12.37	2320.13	1.65E+11	8.78E+10
1/29/22	28.70	178	48.634		154.68	12.37	2320.13	1.65E+11	8.78E+10
1/22/22	28.52	179	48.907		153.71	12.30	2305.72	1.64E+11	8.72E+10
1/25/22	28.52	180	49.180		153.71	12.30	2305.72	1.64E+11	8.72E+10
6/25/22	27.02	181	49.454		145.65	11.65	2184.73	1.55E+11	8.26E+10
6/28/22	25.63	182	49.727		138.15	11.05	2072.29	1.47E+11	7.84E+10
8/4/22	22.58	183	50.000		121.70	9.74	1825.43	1.30E+11	6.90E+10
6/29/22	22.23	184	50.273		119.83	9.59	1797.44	1.28E+11	6.80E+10
6/30/22	20.13	185	50.546		108.50	8.68	1627.51	1.16E+11	6.16E+10
9/12/22	20.00	186	50.820		107.80	8.62	1617.02	1.15E+11	6.12E+10
8/10/22	18.29	187	51.093		98.60	7.89	1478.98	1.05E+11	5.59E+10
7/1/22	18.17	188	51.366		97.91	7.83	1468.72	1.04E+11	5.56E+10
7/2/22	18.00	189	51.639		97.03	7.76	1455.41	1.03E+11	5.51E+10
12/16/22	17.17	190	51.913		92.55	7.40	1388.23	9.87E+10	5.25E+10
7/3/22	16.82	191	52.186		90.67	7.25	1360.00	9.67E+10	5.14E+10
7/9/22	15.61	192	52.459		84.15	6.73	1262.23	8.98E+10	4.77E+10
7/4/22	15.49	193	52.732		83.48	6.68	1252.16	8.90E+10	4.74E+10
7/10/22	15.43	194	53.005		83.16	6.65	1247.43	8.87E+10	4.72E+10
9/1/22	15.11	195	53.279		81.46	6.52	1221.97	8.69E+10	4.62E+10
11/28/22	14.86	196	53.552		80.12	6.41	1201.73	8.55E+10	4.55E+10
7/26/22	14.80	197	53.825		79.76	6.38	1196.35	8.51E+10	4.53E+10
12/30/22	14.77	198	54.098		79.63	6.37	1194.42	8.49E+10	4.52E+10
8/5/22	14.50	199	54.372		78.17	6.25	1172.55	8.34E+10	4.44E+10
7/5/22	14.41	200	54.645		77.66	6.21	1164.85	8.28E+10	4.41E+10
7/8/22	14.14	201	54.918		76.23	6.10	1143.51	8.13E+10	4.33E+10
10/27/22	14.14	202	55.191		76.21	6.10	1143.09	8.13E+10	4.32E+10
9/13/22	13.93	203	55.464		75.07	6.01	1126.11	8.01E+10	4.26E+10
8/11/22	13.75	204	55.738		74.10	5.93	1111.47	7.90E+10	4.20E+10
7/19/22	13.72	205	56.011		73.95	5.92	1109.28	7.89E+10	4.20E+10
12/17/22	13.38	206	56.284		72.13	5.77	1081.99	7.69E+10	4.09E+10
11/29/22	13.07	207	56.557		70.44	5.64	1056.64	7.51E+10	4.00E+10
7/11/22	12.99	208	56.831		70.03	5.60	1050.47	7.47E+10	3.97E+10
7/6/22	12.84	209	57.104		69.19	5.53	1037.81	7.38E+10	3.93E+10
7/7/22	12.49	210	57.377		67.32	5.39	1009.77	7.18E+10	3.82E+10
7/27/22	12.40	211	57.650		66.86	5.35	1002.85	7.13E+10	3.79E+10
8/9/22	11.95	212	57.923		64.40	5.15	965.94	6.87E+10	3.65E+10
7/18/22	11.78	213	58.197		63.50	5.08	952.44	6.77E+10	3.60E+10
7/12/22	11.63	214	58.470		62.66	5.01	939.97	6.68E+10	3.56E+10
7/20/22	11.58	215	58.743		62.41	4.99	936.17	6.66E+10	3.54E+10
8/6/22	11.36	216	59.016		61.23	4.90	918.49	6.53E+10	3.47E+10
7/25/22	10.88	217	59.290		58.64	4.69	879.64	6.26E+10	3.33E+10
8/12/22	10.84	218	59.563		58.42	4.67	876.37	6.23E+10	3.31E+10
7/17/22	10.76	219	59.836		58.02	4.64	870.32	6.19E+10	3.29E+10
8/14/22	10.60	220	60.109		57.12	4.57	856.78	6.09E+10	3.24E+10
7/28/22	10.45	221	60.383		56.32	4.51	844.78	6.01E+10	3.20E+10
8/3/22	10.27	222	60.656		55.34	4.43	830.16	5.90E+10	3.14E+10
11/30/22	10.20	223	60.929		55.00	4.40	824.98	5.87E+10	3.12E+10
8/2/22	10.16	224	61.202		54.78	4.38	821.73	5.84E+10	3.11E+10
12/18/22	10.11	225	61.475		54.51	4.36	817.72	5.82E+10	3.09E+10
7/13/22	9.87	226	61.749		53.21	4.26	798.08	5.68E+10	3.02E+10
12/15/22	9.75	227	62.022		52.58	4.21	788.69	5.61E+10	2.98E+10
7/29/22	9.73	228	62.295		52.44	4.20	786.62	5.59E+10	2.98E+10
9/14/22	9.68	229	62.568		52.16	4.17	782.41	5.56E+10	2.96E+10
7/14/22	9.56	230	62.842		51.55	4.12	773.29	5.50E+10	2.93E+10
7/16/22	9.55	231	63.115		51.45	4.12	771.77	5.49E+10	2.92E+10
7/21/22	9.41	232	63.388		50.74	4.06	761.11	5.41E+10	2.88E+10

date	S2	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
11/27/22	9.13	233	63.661		49.24	3.94	738.53	5.25E+10	2.79E+10
9/2/22	9.12	234	63.934		49.14	3.93	737.03	5.24E+10	2.79E+10
8/13/22	9.11	235	64.208		49.11	3.93	736.72	5.24E+10	2.79E+10
8/15/22	9.09	236	64.481		49.00	3.92	734.95	5.23E+10	2.78E+10
7/15/22	8.94	237	64.754		48.17	3.85	722.49	5.14E+10	2.73E+10
8/7/22	8.79	238	65.027		47.35	3.79	710.30	5.05E+10	2.69E+10
12/20/22	8.78	239	65.301		47.34	3.79	710.12	5.05E+10	2.69E+10
7/30/22	8.72	240	65.574		46.98	3.76	704.64	5.01E+10	2.67E+10
8/29/22	8.67	241	65.847		46.74	3.74	701.04	4.99E+10	2.65E+10
12/1/22	8.55	242	66.120		46.09	3.69	691.31	4.92E+10	2.61E+10
8/1/22	8.51	243	66.393		45.88	3.67	688.26	4.89E+10	2.60E+10
8/16/22	8.39	244	66.667		45.22	3.62	678.29	4.82E+10	2.57E+10
10/28/22	8.32	245	66.940		44.86	3.59	672.92	4.79E+10	2.55E+10
10/26/22	8.27	246	67.213		44.60	3.57	669.02	4.76E+10	2.53E+10
8/21/22	8.26	247	67.486		44.52	3.56	667.86	4.75E+10	2.53E+10
7/24/22	8.21	248	67.760		44.24	3.54	663.63	4.72E+10	2.51E+10
7/22/22	8.18	249	68.033		44.07	3.53	661.06	4.70E+10	2.50E+10
12/24/22	8.13	250	68.306		43.80	3.50	656.97	4.67E+10	2.49E+10
8/22/22	8.03	251	68.579		43.30	3.46	649.50	4.62E+10	2.46E+10
12/29/22	8.01	252	68.852		43.19	3.46	647.84	4.61E+10	2.45E+10
7/31/22	7.91	253	69.126		42.65	3.41	639.70	4.55E+10	2.42E+10
7/23/22	7.80	254	69.399		42.06	3.37	630.95	4.49E+10	2.39E+10
12/23/22	7.78	255	69.672		41.92	3.35	628.83	4.47E+10	2.38E+10
12/19/22	7.66	256	69.945		41.30	3.30	619.54	4.41E+10	2.34E+10
12/21/22	7.65	257	70.219		41.25	3.30	618.76	4.40E+10	2.34E+10
8/8/22	7.64	258	70.492		41.16	3.29	617.47	4.39E+10	2.34E+10
12/2/22	7.60	259	70.765		40.99	3.28	614.83	4.37E+10	2.33E+10
8/17/22	7.56	260	71.038		40.73	3.26	611.01	4.35E+10	2.31E+10
9/15/22	7.43	261	71.311		40.03	3.20	600.39	4.27E+10	2.27E+10
8/23/22	7.37	262	71.585		39.74	3.18	596.11	4.24E+10	2.25E+10
8/18/22	7.32	263	71.858		39.48	3.16	592.13	4.21E+10	2.24E+10
12/22/22	7.08	264	72.131		38.16	3.05	572.35	4.07E+10	2.16E+10
9/3/22	6.95	265	72.404		37.44	3.00	561.61	3.99E+10	2.12E+10
8/19/22	6.84	266	72.678		36.89	2.95	553.33	3.93E+10	2.09E+10
12/3/22	6.84	267	72.951		36.87	2.95	553.01	3.93E+10	2.09E+10
8/24/22	6.68	268	73.224		35.99	2.88	539.83	3.84E+10	2.04E+10
10/29/22	6.67	269	73.497		35.98	2.88	539.65	3.84E+10	2.04E+10
12/14/22	6.53	270	73.770		35.17	2.81	527.58	3.75E+10	2.00E+10
8/25/22	6.45	271	74.044		34.76	2.78	521.44	3.71E+10	1.97E+10
12/4/22	6.42	272	74.317		34.58	2.77	518.76	3.69E+10	1.96E+10
12/9/22	6.37	273	74.590		34.36	2.75	515.36	3.66E+10	1.95E+10
8/26/22	6.37	274	74.863		34.35	2.75	515.30	3.66E+10	1.95E+10
8/20/22	6.31	275	75.137		33.99	2.72	509.82	3.63E+10	1.93E+10
12/10/22	6.29	276	75.410		33.90	2.71	508.44	3.62E+10	1.92E+10
9/19/22	6.20	277	75.683		33.43	2.67	501.46	3.57E+10	1.90E+10
12/25/22	6.19	278	75.956		33.39	2.67	500.86	3.56E+10	1.89E+10
12/5/22	6.19	279	76.230		33.38	2.67	500.68	3.56E+10	1.89E+10
12/11/22	6.18	280	76.503		33.29	2.66	499.36	3.55E+10	1.89E+10
9/16/22	6.15	281	76.776		33.17	2.65	497.62	3.54E+10	1.88E+10
12/28/22	6.14	282	77.049		33.10	2.65	496.43	3.53E+10	1.88E+10
12/12/22	6.11	283	77.322		32.93	2.63	493.91	3.51E+10	1.87E+10
12/6/22	6.09	284	77.596		32.82	2.63	492.26	3.50E+10	1.86E+10
8/28/22	6.08	285	77.869		32.78	2.62	491.69	3.50E+10	1.86E+10
8/27/22	6.05	286	78.142		32.61	2.61	489.08	3.48E+10	1.85E+10
12/7/22	5.99	287	78.415		32.26	2.58	483.92	3.44E+10	1.83E+10
9/4/22	5.96	288	78.689		32.15	2.57	482.25	3.43E+10	1.82E+10
12/8/22	5.95	289	78.962		32.06	2.56	480.90	3.42E+10	1.82E+10
9/11/22	5.88	290	79.235		31.70	2.54	475.57	3.38E+10	1.80E+10

date	S2	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
10/30/22	5.84	291	79.508		31.49	2.52	472.42	3.36E+10	1.79E+10
12/13/22	5.83	292	79.781		31.41	2.51	471.17	3.35E+10	1.78E+10
11/8/22	5.79	293	80.055		31.23	2.50	468.44	3.33E+10	1.77E+10
11/7/22	5.79	294	80.328		31.23	2.50	468.39	3.33E+10	1.77E+10
11/5/22	5.72	295	80.601		30.83	2.47	462.40	3.29E+10	1.75E+10
11/25/22	5.65	296	80.874		30.43	2.43	456.46	3.25E+10	1.73E+10
11/17/22	5.60	297	81.148		30.16	2.41	452.41	3.22E+10	1.71E+10
11/18/22	5.60	298	81.421		30.16	2.41	452.41	3.22E+10	1.71E+10
11/26/22	5.58	299	81.694		30.10	2.41	451.51	3.21E+10	1.71E+10
10/31/22	5.58	300	81.967		30.06	2.40	450.91	3.21E+10	1.71E+10
11/21/22	5.57	301	82.240		30.03	2.40	450.46	3.20E+10	1.70E+10
11/16/22	5.55	302	82.514		29.93	2.39	448.95	3.19E+10	1.70E+10
11/22/22	5.52	303	82.787		29.75	2.38	446.25	3.17E+10	1.69E+10
9/5/22	5.48	304	83.060		29.53	2.36	443.02	3.15E+10	1.68E+10
11/15/22	5.46	305	83.333		29.42	2.35	441.30	3.14E+10	1.67E+10
11/19/22	5.45	306	83.607		29.40	2.35	440.97	3.14E+10	1.67E+10
11/23/22	5.45	307	83.880		29.36	2.35	440.40	3.13E+10	1.67E+10
9/20/22	5.42	308	84.153		29.20	2.34	437.94	3.11E+10	1.66E+10
11/24/22	5.39	309	84.426		29.07	2.33	436.04	3.10E+10	1.65E+10
11/14/22	5.38	310	84.699		29.02	2.32	435.29	3.10E+10	1.65E+10
11/6/22	5.37	311	84.973		28.92	2.31	433.81	3.08E+10	1.64E+10
9/17/22	5.35	312	85.246		28.81	2.31	432.20	3.07E+10	1.63E+10
12/27/22	5.34	313	85.519		28.77	2.30	431.62	3.07E+10	1.63E+10
11/1/22	5.23	314	85.792		28.19	2.26	422.86	3.01E+10	1.60E+10
11/13/22	5.22	315	86.066		28.12	2.25	421.83	3.00E+10	1.60E+10
11/9/22	5.21	316	86.339		28.11	2.25	421.59	3.00E+10	1.59E+10
9/21/22	5.21	317	86.612		28.08	2.25	421.23	3.00E+10	1.59E+10
9/6/22	5.12	318	86.885		27.60	2.21	413.93	2.94E+10	1.57E+10
11/2/22	5.04	319	87.158		27.19	2.17	407.78	2.90E+10	1.54E+10
11/20/22	5.02	320	87.432		27.06	2.16	405.90	2.89E+10	1.54E+10
10/25/22	5.00	321	87.705		26.94	2.16	404.10	2.87E+10	1.53E+10
11/10/22	4.94	322	87.978		26.64	2.13	399.54	2.84E+10	1.51E+10
9/7/22	4.92	323	88.251		26.52	2.12	397.86	2.83E+10	1.50E+10
12/26/22	4.92	324	88.525		26.50	2.12	397.53	2.83E+10	1.50E+10
11/3/22	4.88	325	88.798		26.31	2.10	394.67	2.81E+10	1.49E+10
11/12/22	4.80	326	89.071		25.90	2.07	388.46	2.76E+10	1.47E+10
11/4/22	4.79	327	89.344		25.81	2.06	387.11	2.75E+10	1.46E+10
9/18/22	4.78	328	89.617		25.77	2.06	386.52	2.75E+10	1.46E+10
11/11/22	4.76	329	89.891		25.66	2.05	384.83	2.74E+10	1.46E+10
9/25/22	4.58	330	90.164		24.71	1.98	370.60	2.64E+10	1.40E+10
9/8/22	4.57	331	90.437		24.63	1.97	369.42	2.63E+10	1.40E+10
9/22/22	4.55	332	90.710		24.52	1.96	367.82	2.62E+10	1.39E+10
9/24/22	4.53	333	90.984		24.42	1.95	366.27	2.60E+10	1.39E+10
9/26/22	4.48	334	91.257		24.15	1.93	362.19	2.58E+10	1.37E+10
10/21/22	4.46	335	91.530		24.04	1.92	360.55	2.56E+10	1.36E+10
10/22/22	4.39	336	91.803		23.64	1.89	354.62	2.52E+10	1.34E+10
9/9/22	4.29	337	92.077		23.12	1.85	346.82	2.47E+10	1.31E+10
9/29/22	4.19	338	92.350		22.56	1.81	338.47	2.41E+10	1.28E+10
9/27/22	4.17	339	92.623		22.50	1.80	337.45	2.40E+10	1.28E+10
10/20/22	4.14	340	92.896		22.33	1.79	334.93	2.38E+10	1.27E+10
9/30/22	4.13	341	93.169		22.28	1.78	334.19	2.38E+10	1.26E+10
9/23/22	4.13	342	93.443		22.25	1.78	333.73	2.37E+10	1.26E+10
10/19/22	4.11	343	93.716		22.16	1.77	332.41	2.36E+10	1.26E+10
10/23/22	4.11	344	93.989		22.14	1.77	332.05	2.36E+10	1.26E+10
10/17/22	4.06	345	94.262		21.90	1.75	328.56	2.34E+10	1.24E+10
9/28/22	4.02	346	94.536		21.66	1.73	324.84	2.31E+10	1.23E+10
9/10/22	4.02	347	94.809		21.66	1.73	324.83	2.31E+10	1.23E+10
10/16/22	3.99	348	95.082		21.50	1.72	322.56	2.29E+10	1.22E+10

date	S2	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
10/18/22	3.97	349	95.355		21.39	1.71	320.88	2.28E+10	1.21E+10
10/1/22	3.88	350	95.628		20.94	1.67	314.03	2.23E+10	1.19E+10
10/24/22	3.76	351	95.902		20.25	1.62	303.78	2.16E+10	1.15E+10
10/15/22	3.72	352	96.175		20.05	1.60	300.78	2.14E+10	1.14E+10
10/2/22	3.64	353	96.448		19.63	1.57	294.40	2.09E+10	1.11E+10
10/13/22	3.60	354	96.721		19.42	1.55	291.28	2.07E+10	1.10E+10
10/7/22	3.49	355	96.995		18.83	1.51	282.45	2.01E+10	1.07E+10
10/4/22	3.46	356	97.268		18.67	1.49	280.00	1.99E+10	1.06E+10
10/6/22	3.43	357	97.541		18.51	1.48	277.69	1.97E+10	1.05E+10
10/3/22	3.42	358	97.814		18.44	1.47	276.54	1.97E+10	1.05E+10
10/14/22	3.41	359	98.087		18.40	1.47	275.94	1.96E+10	1.04E+10
10/8/22	3.38	360	98.361		18.20	1.46	272.95	1.94E+10	1.03E+10
10/12/22	3.35	361	98.634		18.05	1.44	270.79	1.93E+10	1.02E+10
10/5/22	3.32	362	98.907		17.89	1.43	268.34	1.91E+10	1.02E+10
10/9/22	3.19	363	99.180		17.20	1.38	258.04	1.84E+10	9.76E+09
10/10/22	3.13	364	99.454		16.88	1.35	253.27	1.80E+10	9.58E+09
10/11/22	3.13	365	99.727		16.87	1.35	253.09	1.80E+10	9.57E+09
<b>TOTAL NUMBER OF</b>		<b>365</b>							
					1.00	0.08	15.00	2.35E+02	1.25E+02
					5.39	5.39	5.39	2.45E+07	2.45E+07

Date	Flow	NO3_N (mg/L)	TP (mg/L)	TSS (mg/L)	Ecoli (col/100 mL)
1/26/22	28.70	4.58	0.012	2	19.3
2/23/22	528.09	3.95	0.612	45	224.7
3/23/22	732.05	3.17	2.1	208	2419.6
4/27/22	79.66	2.42	0.124	8	83
5/24/22	46.25	3.54	0.124	4	81.3
6/27/22	29.48	2.62	0.329	6	307.6
7/25/22	12.40	1.33	0.098	3	547.5
8/22/22	8.03	0.885	0.16	12	816.4
9/28/22	4.02	0.766	0.082	2	195.6
10/24/22	3.76	0.453	0.033	2	79.4
11/16/22	5.55	0.404	0.063	4	58.4
12/21/22	7.65	0.973	0.014	3	17.3
1/25/23					

Date	% Flow Exceed		NO3 Act Load	TP Act Load	TSS Act Load	Ecoli Act Load
1/26/22	48.36065574		708.4119259	1.85610112	309.350186	1.36E+10
2/23/22	2.732240437		11243.35112	1742.00782	128088.8103	2.90E+12
3/23/22	1.366120219		12507.98313	8286.04561	820713.0886	4.33E+13
4/27/22	25.40983607		1039.049952	53.2405761	3434.875875	1.62E+11
5/24/22	37.97814208		882.5414949	30.9138829	997.2220281	9.20E+10
6/27/22	47.26775956		416.3658158	52.2841043	953.5095018	2.22E+11
7/25/22	59.28961749		88.91947455	6.55196128	200.5702433	1.66E+11
8/22/22	68.57923497		38.32069424	6.92803512	519.6026338	1.60E+11
9/28/22	94.53551913		16.58858348	1.77580137	43.31222842	1.92E+10
10/24/22	95.90163934		9.174187469	0.66831829	40.50413893	7.30E+09
11/16/22	82.5136612		12.09182947	1.88560707	119.7210839	7.93E+09
12/21/22	70.21857923		40.13692569	0.57750972	123.7520833	3.24E+09
1/25/23						

Date	Ann Load Proxy Range			NO3 Ann Load	TP Ann Load	TSS Ann Load
1/26/22		28		19835.53392	51.97083124	8661.805207
2/23/22		28		314813.8314	48776.21895	3586486.687
3/23/22		35		437779.4095	290011.5962	28724958.1
4/27/22		27		28054.34871	1437.495553	92741.64861
5/24/22		34		30006.41083	1051.072018	33905.54895
6/27/22		28		11658.24284	1463.954922	26698.26605
7/25/22		28		2489.745287	183.4549159	5615.966814
8/22/22		37		1417.865687	256.3372993	19225.29745
9/28/22		26		431.3031706	46.1708355	1126.117939
10/24/22		23		211.0063118	15.37132073	931.5951955
11/16/22		35		423.2140315	65.99624749	4190.237936
12/21/22		35		1404.792399	20.21284028	4331.322916
1/25/23						



Date	Ecoli Ann Load
1/26/22	3.79E+11
2/23/22	8.13E+13
3/23/22	1.52E+15
4/27/22	4.37E+12
5/24/22	3.13E+12
6/27/22	6.21E+12
7/25/22	4.65E+12
8/22/22	5.94E+12
9/28/22	5.00E+11
10/24/22	1.68E+11
11/16/22	2.78E+11
12/21/22	1.13E+11
1/25/23	

date	S15 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
2/17/22	1257.62	1	0.273		6778.57	542.29	101678.54	7.23E+12	3.85E+12
3/7/22	863.02	2	0.546		4651.67	372.13	69775.10	4.96E+12	2.64E+12
2/18/22	608.84	3	0.820		3281.66	262.53	49224.83	3.50E+12	1.86E+12
3/23/22	563.17	4	1.093		3035.50	242.84	45532.45	3.24E+12	1.72E+12
5/1/22	370.78	5	1.366		1998.48	159.88	29977.23	2.13E+12	1.13E+12
3/8/22	338.09	6	1.639		1822.32	145.79	27334.78	1.94E+12	1.03E+12
2/22/22	278.73	7	1.913		1502.33	120.19	22534.99	1.60E+12	8.52E+11
2/16/22	247.61	8	2.186		1334.61	106.77	20019.11	1.42E+12	7.57E+11
3/24/22	240.94	9	2.459		1298.68	103.89	19480.20	1.39E+12	7.37E+11
5/6/22	230.10	10	2.732		1240.23	99.22	18603.51	1.32E+12	7.04E+11
1/2/22	219.72	11	3.005		1184.30	94.74	17764.57	1.26E+12	6.72E+11
2/19/22	210.42	12	3.279		1134.18	90.73	17012.66	1.21E+12	6.44E+11
2/23/22	199.66	13	3.552		1076.16	86.09	16142.47	1.15E+12	6.11E+11
8/30/22	196.16	14	3.825		1057.31	84.58	15859.65	1.13E+12	6.00E+11
2/2/22	194.63	15	4.098		1049.06	83.92	15735.84	1.12E+12	5.95E+11
5/7/22	185.78	16	4.372		1001.38	80.11	15020.71	1.07E+12	5.68E+11
5/4/22	170.38	17	4.645		918.35	73.47	13775.30	9.80E+11	5.21E+11
3/9/22	168.05	18	4.918		905.78	72.46	13586.64	9.66E+11	5.14E+11
6/12/22	165.52	19	5.191		892.14	71.37	13382.15	9.52E+11	5.06E+11
6/13/22	157.18	20	5.464		847.18	67.77	12707.75	9.04E+11	4.81E+11
5/2/22	138.69	21	5.738		747.57	59.81	11213.49	7.97E+11	4.24E+11
4/14/22	136.83	22	6.011		737.53	59.00	11062.90	7.87E+11	4.18E+11
5/27/22	135.69	23	6.284		731.35	58.51	10970.20	7.80E+11	4.15E+11
5/3/22	133.00	24	6.557		716.85	57.35	10752.81	7.65E+11	4.07E+11
6/14/22	131.20	25	6.831		707.16	56.57	10607.46	7.54E+11	4.01E+11
3/25/22	130.94	26	7.104		705.75	56.46	10586.28	7.53E+11	4.00E+11
2/21/22	128.32	27	7.377		691.63	55.33	10374.44	7.38E+11	3.92E+11
2/20/22	125.80	28	7.650		678.07	54.25	10171.11	7.23E+11	3.85E+11
3/22/22	121.87	29	7.923		656.90	52.55	9853.46	7.01E+11	3.73E+11
2/3/22	115.00	30	8.197		619.85	49.59	9297.77	6.61E+11	3.52E+11
1/1/22	113.24	31	8.470		610.35	48.83	9155.25	6.51E+11	3.46E+11
5/5/22	107.56	32	8.743		579.75	46.38	8696.25	6.18E+11	3.29E+11
3/10/22	106.98	33	9.016		576.64	46.13	8649.58	6.15E+11	3.27E+11
12/31/22	106.01	34	9.290		571.42	45.71	8571.25	6.10E+11	3.24E+11
3/26/22	100.72	35	9.563		542.89	43.43	8143.28	5.79E+11	3.08E+11
4/25/22	100.57	36	9.836		542.07	43.37	8131.12	5.78E+11	3.08E+11
2/24/22	100.11	37	10.109		539.59	43.17	8093.78	5.76E+11	3.06E+11
2/12/22	97.93	38	10.383		527.83	42.23	7917.50	5.63E+11	2.99E+11
1/3/22	96.91	39	10.656		522.33	41.79	7834.97	5.57E+11	2.96E+11
5/26/22	95.17	40	10.929		512.97	41.04	7694.55	5.47E+11	2.91E+11
9/11/22	92.14	41	11.202		496.63	39.73	7449.46	5.30E+11	2.82E+11
5/8/22	85.88	42	11.475		462.90	37.03	6943.49	4.94E+11	2.63E+11
3/11/22	84.78	43	11.749		456.96	36.56	6854.46	4.87E+11	2.59E+11
4/7/22	83.60	44	12.022		450.63	36.05	6759.45	4.81E+11	2.56E+11
4/15/22	82.79	45	12.295		446.25	35.70	6693.70	4.76E+11	2.53E+11
1/9/22	82.74	46	12.568		445.97	35.68	6689.61	4.76E+11	2.53E+11
4/26/22	81.40	47	12.842		438.74	35.10	6581.17	4.68E+11	2.49E+11
3/19/22	80.43	48	13.115		433.54	34.68	6503.15	4.62E+11	2.46E+11
3/27/22	78.73	49	13.388		424.36	33.95	6365.36	4.53E+11	2.41E+11
2/25/22	78.41	50	13.661		422.64	33.81	6339.56	4.51E+11	2.40E+11
3/1/22	75.80	51	13.934		408.54	32.68	6128.04	4.36E+11	2.32E+11
3/20/22	73.50	52	14.208		396.18	31.69	5942.74	4.23E+11	2.25E+11
2/28/22	72.85	53	14.481		392.67	31.41	5889.99	4.19E+11	2.23E+11
2/27/22	69.99	54	14.754		377.24	30.18	5658.55	4.02E+11	2.14E+11
10/26/22	69.50	55	15.027		374.62	29.97	5619.35	4.00E+11	2.13E+11
3/2/22	68.15	56	15.301		367.30	29.38	5509.53	3.92E+11	2.08E+11
4/6/22	68.12	57	15.574		367.16	29.37	5507.33	3.92E+11	2.08E+11
5/28/22	68.07	58	15.847		366.90	29.35	5503.55	3.91E+11	2.08E+11
8/9/22	66.48	59	16.120		358.34	28.67	5375.07	3.82E+11	2.03E+11
3/12/22	65.63	60	16.393		353.73	28.30	5305.98	3.77E+11	2.01E+11

date	S15 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
3/28/22	63.41	61	16.667		341.81	27.34	5127.08	3.65E+11	1.94E+11
4/8/22	63.33	62	16.940		341.36	27.31	5120.47	3.64E+11	1.94E+11
2/26/22	62.92	63	17.213		339.13	27.13	5087.02	3.62E+11	1.92E+11
1/4/22	62.81	64	17.486		338.52	27.08	5077.79	3.61E+11	1.92E+11
12/15/22	60.95	65	17.760		328.49	26.28	4927.41	3.50E+11	1.86E+11
3/31/22	60.37	66	18.033		325.41	26.03	4881.17	3.47E+11	1.85E+11
3/21/22	60.23	67	18.306		324.66	25.97	4869.94	3.46E+11	1.84E+11
4/16/22	60.12	68	18.579		324.03	25.92	4860.40	3.46E+11	1.84E+11
6/15/22	58.33	69	18.852		314.41	25.15	4716.21	3.35E+11	1.78E+11
5/9/22	57.56	70	19.126		310.25	24.82	4653.81	3.31E+11	1.76E+11
4/9/22	56.33	71	19.399		303.60	24.29	4553.98	3.24E+11	1.72E+11
11/27/22	55.88	72	19.672		301.20	24.10	4517.93	3.21E+11	1.71E+11
3/3/22	54.89	73	19.945		295.84	23.67	4437.58	3.16E+11	1.68E+11
3/29/22	54.89	74	20.219		295.83	23.67	4437.47	3.16E+11	1.68E+11
4/13/22	54.53	75	20.492		293.94	23.52	4409.13	3.14E+11	1.67E+11
2/13/22	52.57	76	20.765		283.36	22.67	4250.39	3.02E+11	1.61E+11
4/27/22	52.51	77	21.038		283.05	22.64	4245.77	3.02E+11	1.61E+11
3/13/22	52.49	78	21.311		282.93	22.63	4243.99	3.02E+11	1.61E+11
3/30/22	51.58	79	21.585		278.02	22.24	4170.37	2.97E+11	1.58E+11
7/25/22	50.51	80	21.858		272.26	21.78	4083.86	2.90E+11	1.54E+11
1/5/22	50.03	81	22.131		269.68	21.57	4045.27	2.88E+11	1.53E+11
2/11/22	48.96	82	22.404		263.87	21.11	3958.02	2.81E+11	1.50E+11
3/6/22	48.37	83	22.678		260.69	20.86	3910.41	2.78E+11	1.48E+11
3/14/22	48.30	84	22.951		260.36	20.83	3905.37	2.78E+11	1.48E+11
1/10/22	48.30	85	23.224		260.34	20.83	3905.06	2.78E+11	1.48E+11
4/10/22	47.80	86	23.497		257.64	20.61	3864.58	2.75E+11	1.46E+11
4/1/22	47.63	87	23.770		256.71	20.54	3850.63	2.74E+11	1.46E+11
2/4/22	46.68	88	24.044		251.61	20.13	3774.11	2.68E+11	1.43E+11
4/17/22	46.60	89	24.317		251.18	20.09	3767.68	2.68E+11	1.43E+11
4/18/22	45.66	90	24.590		246.12	19.69	3691.76	2.63E+11	1.40E+11
3/4/22	44.84	91	24.863		241.71	19.34	3625.59	2.58E+11	1.37E+11
3/15/22	44.28	92	25.137		238.66	19.09	3579.86	2.55E+11	1.35E+11
4/11/22	44.08	93	25.410		237.59	19.01	3563.82	2.53E+11	1.35E+11
5/10/22	43.37	94	25.683		233.77	18.70	3506.56	2.49E+11	1.33E+11
5/29/22	42.84	95	25.956		230.90	18.47	3463.57	2.46E+11	1.31E+11
4/19/22	42.81	96	26.230		230.74	18.46	3461.05	2.46E+11	1.31E+11
4/2/22	42.20	97	26.503		227.46	18.20	3411.97	2.43E+11	1.29E+11
3/18/22	42.06	98	26.776		226.69	18.14	3400.33	2.42E+11	1.29E+11
4/28/22	42.00	99	27.049		226.40	18.11	3396.03	2.42E+11	1.28E+11
3/5/22	41.37	100	27.322		222.99	17.84	3344.86	2.38E+11	1.27E+11
3/16/22	41.35	101	27.596		222.88	17.83	3343.18	2.38E+11	1.26E+11
4/3/22	40.29	102	27.869		217.19	17.38	3257.82	2.32E+11	1.23E+11
4/5/22	40.23	103	28.142		216.84	17.35	3252.57	2.31E+11	1.23E+11
4/12/22	39.62	104	28.415		213.57	17.09	3203.60	2.28E+11	1.21E+11
3/17/22	38.51	105	28.689		207.57	16.61	3113.52	2.21E+11	1.18E+11
9/12/22	38.17	106	28.962		205.72	16.46	3085.83	2.19E+11	1.17E+11
4/4/22	37.83	107	29.235		203.90	16.31	3058.46	2.17E+11	1.16E+11
6/16/22	37.29	108	29.508		201.01	16.08	3015.15	2.14E+11	1.14E+11
4/29/22	37.06	109	29.781		199.76	15.98	2996.38	2.13E+11	1.13E+11
4/20/22	36.94	110	30.055		199.09	15.93	2986.42	2.12E+11	1.13E+11
4/21/22	36.40	111	30.328		196.19	15.70	2942.90	2.09E+11	1.11E+11
5/20/22	35.94	112	30.601		193.74	15.50	2906.09	2.07E+11	1.10E+11
2/14/22	35.65	113	30.874		192.15	15.37	2882.22	2.05E+11	1.09E+11
5/11/22	35.58	114	31.148		191.78	15.34	2876.73	2.05E+11	1.09E+11
4/30/22	35.26	115	31.421		190.06	15.20	2850.93	2.03E+11	1.08E+11
1/6/22	35.25	116	31.694		189.97	15.20	2849.57	2.03E+11	1.08E+11
5/16/22	33.87	117	31.967		182.57	14.61	2738.51	1.95E+11	1.04E+11
11/28/22	33.45	118	32.240		180.30	14.42	2704.53	1.92E+11	1.02E+11
4/22/22	33.34	119	32.514		179.71	14.38	2695.62	1.92E+11	1.02E+11
4/23/22	32.71	120	32.787		176.32	14.11	2644.86	1.88E+11	1.00E+11

date	S15 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
12/30/22	31.36	121	33.060		169.00	13.52	2535.07	1.80E+11	9.59E+10
5/30/22	31.16	122	33.333		167.94	13.44	2519.13	1.79E+11	9.53E+10
4/24/22	30.81	123	33.607		166.06	13.28	2490.92	1.77E+11	9.42E+10
5/12/22	30.70	124	33.880		165.45	13.24	2481.80	1.76E+11	9.39E+10
1/11/22	30.13	125	34.153		162.43	12.99	2436.39	1.73E+11	9.22E+10
8/31/22	28.89	126	34.426		155.69	12.46	2335.40	1.66E+11	8.83E+10
12/27/22	27.87	127	34.699		150.24	12.02	2253.60	1.60E+11	8.52E+10
5/14/22	27.32	128	34.973		147.23	11.78	2208.51	1.57E+11	8.35E+10
6/17/22	27.25	129	35.246		146.88	11.75	2203.27	1.57E+11	8.33E+10
5/13/22	27.11	130	35.519		146.14	11.69	2192.15	1.56E+11	8.29E+10
5/19/22	26.78	131	35.792		144.37	11.55	2165.52	1.54E+11	8.19E+10
5/15/22	26.69	132	36.066		143.84	11.51	2157.65	1.53E+11	8.16E+10
12/16/22	26.51	133	36.339		142.91	11.43	2143.60	1.52E+11	8.11E+10
2/10/22	26.43	134	36.612		142.44	11.40	2136.57	1.52E+11	8.08E+10
8/10/22	25.12	135	36.885		135.38	10.83	2030.66	1.44E+11	7.68E+10
1/7/22	24.99	136	37.158		134.67	10.77	2020.06	1.44E+11	7.64E+10
5/18/22	24.36	137	37.432		131.28	10.50	1969.20	1.40E+11	7.45E+10
1/12/22	24.14	138	37.705		130.11	10.41	1951.59	1.39E+11	7.38E+10
5/31/22	24.00	139	37.978		129.39	10.35	1940.78	1.38E+11	7.34E+10
12/26/22	23.99	140	38.251		129.33	10.35	1939.95	1.38E+11	7.34E+10
5/17/22	23.92	141	38.525		128.93	10.31	1933.97	1.38E+11	7.32E+10
2/15/22	23.57	142	38.798		127.02	10.16	1905.29	1.35E+11	7.21E+10
5/21/22	22.78	143	39.071		122.79	9.82	1841.89	1.31E+11	6.97E+10
1/8/22	22.77	144	39.344		122.74	9.82	1841.05	1.31E+11	6.96E+10
2/9/22	21.91	145	39.617		118.09	9.45	1771.42	1.26E+11	6.70E+10
5/25/22	21.84	146	39.891		117.73	9.42	1765.97	1.26E+11	6.68E+10
6/1/22	21.06	147	40.164		113.51	9.08	1702.63	1.21E+11	6.44E+10
1/13/22	21.03	148	40.437		113.35	9.07	1700.32	1.21E+11	6.43E+10
2/8/22	20.41	149	40.710		110.04	8.80	1650.53	1.17E+11	6.24E+10
12/29/22	19.98	150	40.984		107.69	8.62	1615.38	1.15E+11	6.11E+10
12/28/22	19.65	151	41.257		105.89	8.47	1588.32	1.13E+11	6.01E+10
5/22/22	18.55	152	41.530		99.99	8.00	1499.92	1.07E+11	5.67E+10
2/5/22	18.49	153	41.803		99.67	7.97	1494.99	1.06E+11	5.65E+10
8/1/22	18.41	154	42.077		99.21	7.94	1488.19	1.06E+11	5.63E+10
6/18/22	18.39	155	42.350		99.13	7.93	1487.02	1.06E+11	5.62E+10
6/2/22	18.15	156	42.623		97.83	7.83	1467.52	1.04E+11	5.55E+10
8/4/22	18.03	157	42.896		97.17	7.77	1457.54	1.04E+11	5.51E+10
1/14/22	17.39	158	43.169		93.75	7.50	1406.27	1.00E+11	5.32E+10
7/24/22	16.99	159	43.443		91.60	7.33	1374.02	9.77E+10	5.20E+10
6/7/22	16.93	160	43.716		91.27	7.30	1369.05	9.74E+10	5.18E+10
10/25/22	16.06	161	43.989		86.55	6.92	1298.23	9.23E+10	4.91E+10
10/27/22	15.98	162	44.262		86.15	6.89	1292.23	9.19E+10	4.89E+10
12/25/22	15.86	163	44.536		85.46	6.84	1281.90	9.12E+10	4.85E+10
11/29/22	15.38	164	44.809		82.89	6.63	1243.30	8.84E+10	4.70E+10
5/23/22	15.12	165	45.082		81.50	6.52	1222.55	8.69E+10	4.62E+10
7/26/22	15.00	166	45.355		80.83	6.47	1212.46	8.62E+10	4.59E+10
9/13/22	14.90	167	45.628		80.34	6.43	1205.05	8.57E+10	4.56E+10
2/6/22	14.78	168	45.902		79.64	6.37	1194.65	8.50E+10	4.52E+10
12/17/22	14.77	169	46.175		79.62	6.37	1194.34	8.49E+10	4.52E+10
2/7/22	14.76	170	46.448		79.53	6.36	1192.97	8.48E+10	4.51E+10
12/19/22	14.75	171	46.721		79.50	6.36	1192.46	8.48E+10	4.51E+10
6/3/22	14.66	172	46.995		79.01	6.32	1185.11	8.43E+10	4.48E+10
1/15/22	14.46	173	47.268		77.95	6.24	1169.27	8.32E+10	4.42E+10
6/26/22	13.98	174	47.541		75.36	6.03	1130.43	8.04E+10	4.28E+10
6/19/22	13.55	175	47.814		73.04	5.84	1095.55	7.79E+10	4.14E+10
11/30/22	13.30	176	48.087		71.68	5.73	1075.21	7.65E+10	4.07E+10
12/24/22	13.13	177	48.361		70.77	5.66	1061.62	7.55E+10	4.02E+10
1/16/22	12.97	178	48.634		69.90	5.59	1048.57	7.46E+10	3.97E+10
6/8/22	12.90	179	48.907		69.53	5.56	1042.94	7.42E+10	3.95E+10
5/24/22	12.89	180	49.180		69.46	5.56	1041.85	7.41E+10	3.94E+10

date	S15 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/6/22	12.64	181	49.454		68.11	5.45	1021.67	7.27E+10	3.86E+10
8/11/22	12.50	182	49.727		67.37	5.39	1010.57	7.19E+10	3.82E+10
6/11/22	12.44	183	50.000		67.03	5.36	1005.40	7.15E+10	3.80E+10
7/27/22	11.82	184	50.273		63.71	5.10	955.68	6.80E+10	3.61E+10
6/4/22	11.78	185	50.546		63.50	5.08	952.54	6.77E+10	3.60E+10
6/9/22	11.70	186	50.820		63.04	5.04	945.55	6.72E+10	3.58E+10
8/2/22	11.37	187	51.093		61.27	4.90	919.05	6.54E+10	3.48E+10
6/10/22	11.04	188	51.366		59.49	4.76	892.35	6.35E+10	3.38E+10
8/5/22	11.00	189	51.639		59.28	4.74	889.22	6.32E+10	3.36E+10
12/23/22	10.89	190	51.913		58.72	4.70	880.76	6.26E+10	3.33E+10
7/28/22	10.85	191	52.186		58.49	4.68	877.28	6.24E+10	3.32E+10
9/1/22	10.76	192	52.459		58.00	4.64	869.98	6.19E+10	3.29E+10
6/20/22	10.62	193	52.732		57.27	4.58	859.02	6.11E+10	3.25E+10
6/5/22	10.59	194	53.005		57.08	4.57	856.17	6.09E+10	3.24E+10
12/14/22	10.48	195	53.279		56.46	4.52	846.92	6.02E+10	3.20E+10
12/18/22	10.45	196	53.552		56.35	4.51	845.28	6.01E+10	3.20E+10
8/29/22	10.40	197	53.825		56.07	4.49	841.05	5.98E+10	3.18E+10
1/17/22	9.87	198	54.098		53.22	4.26	798.34	5.68E+10	3.02E+10
7/9/22	9.80	199	54.372		52.83	4.23	792.49	5.64E+10	3.00E+10
6/21/22	9.35	200	54.645		50.42	4.03	756.30	5.38E+10	2.86E+10
6/27/22	9.07	201	54.918		48.90	3.91	733.48	5.22E+10	2.77E+10
12/21/22	9.03	202	55.191		48.69	3.90	730.42	5.19E+10	2.76E+10
8/12/22	8.98	203	55.464		48.40	3.87	726.04	5.16E+10	2.75E+10
6/22/22	8.88	204	55.738		47.88	3.83	718.23	5.11E+10	2.72E+10
12/1/22	8.45	205	56.011		45.53	3.64	683.00	4.86E+10	2.58E+10
8/14/22	8.44	206	56.284		45.50	3.64	682.57	4.85E+10	2.58E+10
2/1/22	8.31	207	56.557		44.81	3.58	672.16	4.78E+10	2.54E+10
9/14/22	8.30	208	56.831		44.75	3.58	671.27	4.77E+10	2.54E+10
7/29/22	8.29	209	57.104		44.68	3.57	670.22	4.77E+10	2.54E+10
10/28/22	8.12	210	57.377		43.76	3.50	656.35	4.67E+10	2.48E+10
6/23/22	7.51	211	57.650		40.45	3.24	606.80	4.32E+10	2.30E+10
12/20/22	7.50	212	57.923		40.41	3.23	606.17	4.31E+10	2.29E+10
12/22/22	7.47	213	58.197		40.24	3.22	603.55	4.29E+10	2.28E+10
8/21/22	7.41	214	58.470		39.94	3.20	599.16	4.26E+10	2.27E+10
1/18/22	7.30	215	58.743		39.35	3.15	590.28	4.20E+10	2.23E+10
12/10/22	7.24	216	59.016		39.01	3.12	585.16	4.16E+10	2.21E+10
12/2/22	7.00	217	59.290		37.73	3.02	565.98	4.02E+10	2.14E+10
8/15/22	6.95	218	59.563		37.44	3.00	561.59	3.99E+10	2.12E+10
8/3/22	6.89	219	59.836		37.12	2.97	556.84	3.96E+10	2.11E+10
8/13/22	6.75	220	60.109		36.39	2.91	545.83	3.88E+10	2.06E+10
8/20/22	6.74	221	60.383		36.35	2.91	545.25	3.88E+10	2.06E+10
7/30/22	6.50	222	60.656		35.02	2.80	525.37	3.74E+10	1.99E+10
12/3/22	6.47	223	60.929		34.87	2.79	523.04	3.72E+10	1.98E+10
8/16/22	6.34	224	61.202		34.20	2.74	512.93	3.65E+10	1.94E+10
7/8/22	6.32	225	61.475		34.08	2.73	511.15	3.63E+10	1.93E+10
9/2/22	6.26	226	61.749		33.74	2.70	506.10	3.60E+10	1.91E+10
7/10/22	6.18	227	62.022		33.32	2.67	499.78	3.55E+10	1.89E+10
8/23/22	6.12	228	62.295		32.98	2.64	494.75	3.52E+10	1.87E+10
9/19/22	6.11	229	62.568		32.92	2.63	493.77	3.51E+10	1.87E+10
1/31/22	6.02	230	62.842		32.44	2.60	486.59	3.46E+10	1.84E+10
12/7/22	5.98	231	63.115		32.22	2.58	483.33	3.44E+10	1.83E+10
10/29/22	5.91	232	63.388		31.83	2.55	477.42	3.40E+10	1.81E+10
10/18/22	5.90	233	63.661		31.80	2.54	477.05	3.39E+10	1.80E+10
12/6/22	5.85	234	63.934		31.52	2.52	472.74	3.36E+10	1.79E+10
12/9/22	5.81	235	64.208		31.32	2.51	469.85	3.34E+10	1.78E+10
12/11/22	5.80	236	64.481		31.28	2.50	469.26	3.34E+10	1.78E+10
10/19/22	5.80	237	64.754		31.27	2.50	469.05	3.34E+10	1.77E+10
12/5/22	5.79	238	65.027		31.22	2.50	468.30	3.33E+10	1.77E+10
9/15/22	5.67	239	65.301		30.57	2.45	458.58	3.26E+10	1.73E+10
12/4/22	5.64	240	65.574		30.42	2.43	456.29	3.24E+10	1.73E+10

date	S15 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/24/22	5.61	241	65.847		30.26	2.42	453.88	3.23E+10	1.72E+10
12/8/22	5.57	242	66.120		30.01	2.40	450.22	3.20E+10	1.70E+10
6/28/22	5.56	243	66.393		29.95	2.40	449.24	3.19E+10	1.70E+10
8/22/22	5.51	244	66.667		29.72	2.38	445.83	3.17E+10	1.69E+10
11/13/22	5.44	245	66.940		29.31	2.34	439.67	3.13E+10	1.66E+10
1/19/22	5.42	246	67.213		29.24	2.34	438.60	3.12E+10	1.66E+10
12/12/22	5.41	247	67.486		29.14	2.33	437.16	3.11E+10	1.65E+10
10/31/22	5.23	248	67.760		28.18	2.25	422.68	3.01E+10	1.60E+10
9/24/22	5.21	249	68.033		28.07	2.25	420.98	2.99E+10	1.59E+10
12/13/22	5.17	250	68.306		27.85	2.23	417.80	2.97E+10	1.58E+10
1/30/22	5.16	251	68.579		27.81	2.22	417.12	2.97E+10	1.58E+10
11/4/22	5.15	252	68.852		27.74	2.22	416.05	2.96E+10	1.57E+10
11/6/22	5.03	253	69.126		27.11	2.17	406.62	2.89E+10	1.54E+10
9/3/22	5.03	254	69.399		27.10	2.17	406.50	2.89E+10	1.54E+10
8/19/22	5.02	255	69.672		27.06	2.16	405.86	2.89E+10	1.54E+10
6/25/22	5.02	256	69.945		27.05	2.16	405.72	2.89E+10	1.53E+10
11/5/22	5.01	257	70.219		27.02	2.16	405.29	2.88E+10	1.53E+10
10/13/22	5.00	258	70.492		26.93	2.15	403.96	2.87E+10	1.53E+10
10/30/22	4.97	259	70.765		26.80	2.14	402.07	2.86E+10	1.52E+10
10/15/22	4.93	260	71.038		26.56	2.12	398.40	2.83E+10	1.51E+10
1/29/22	4.92	261	71.311		26.51	2.12	397.66	2.83E+10	1.50E+10
1/20/22	4.86	262	71.585		26.22	2.10	393.30	2.80E+10	1.49E+10
10/14/22	4.86	263	71.858		26.17	2.09	392.58	2.79E+10	1.48E+10
11/16/22	4.85	264	72.131		26.12	2.09	391.85	2.79E+10	1.48E+10
7/1/22	4.82	265	72.404		25.95	2.08	389.32	2.77E+10	1.47E+10
1/28/22	4.80	266	72.678		25.86	2.07	387.93	2.76E+10	1.47E+10
6/29/22	4.75	267	72.951		25.61	2.05	384.15	2.73E+10	1.45E+10
11/1/22	4.73	268	73.224		25.51	2.04	382.63	2.72E+10	1.45E+10
1/24/22	4.69	269	73.497		25.30	2.02	379.54	2.70E+10	1.44E+10
1/25/22	4.69	270	73.770		25.30	2.02	379.54	2.70E+10	1.44E+10
1/26/22	4.69	271	74.044		25.30	2.02	379.54	2.70E+10	1.44E+10
1/27/22	4.69	272	74.317		25.30	2.02	379.54	2.70E+10	1.44E+10
1/21/22	4.58	273	74.590		24.70	1.98	370.48	2.63E+10	1.40E+10
1/23/22	4.54	274	74.863		24.45	1.96	366.78	2.61E+10	1.39E+10
11/19/22	4.53	275	75.137		24.43	1.95	366.40	2.61E+10	1.39E+10
9/16/22	4.52	276	75.410		24.34	1.95	365.09	2.60E+10	1.38E+10
11/14/22	4.51	277	75.683		24.32	1.95	364.78	2.59E+10	1.38E+10
10/16/22	4.51	278	75.956		24.30	1.94	364.57	2.59E+10	1.38E+10
11/15/22	4.50	279	76.230		24.28	1.94	364.23	2.59E+10	1.38E+10
1/22/22	4.48	280	76.503		24.14	1.93	362.09	2.57E+10	1.37E+10
11/17/22	4.45	281	76.776		24.00	1.92	359.93	2.56E+10	1.36E+10
7/11/22	4.42	282	77.049		23.84	1.91	357.61	2.54E+10	1.35E+10
11/18/22	4.39	283	77.322		23.69	1.89	355.31	2.53E+10	1.34E+10
11/2/22	4.39	284	77.596		23.64	1.89	354.59	2.52E+10	1.34E+10
9/20/22	4.38	285	77.869		23.63	1.89	354.50	2.52E+10	1.34E+10
11/12/22	4.36	286	78.142		23.49	1.88	352.37	2.51E+10	1.33E+10
8/17/22	4.28	287	78.415		23.05	1.84	345.77	2.46E+10	1.31E+10
11/10/22	4.23	288	78.689		22.81	1.82	342.15	2.43E+10	1.29E+10
10/17/22	4.22	289	78.962		22.75	1.82	341.18	2.43E+10	1.29E+10
11/3/22	4.21	290	79.235		22.71	1.82	340.70	2.42E+10	1.29E+10
6/30/22	4.15	291	79.508		22.37	1.79	335.61	2.39E+10	1.27E+10
8/24/22	4.10	292	79.781		22.10	1.77	331.44	2.36E+10	1.25E+10
11/20/22	4.04	293	80.055		21.77	1.74	326.52	2.32E+10	1.24E+10
11/23/22	4.04	294	80.328		21.77	1.74	326.49	2.32E+10	1.23E+10
11/7/22	4.03	295	80.601		21.72	1.74	325.75	2.32E+10	1.23E+10
11/24/22	4.00	296	80.874		21.59	1.73	323.80	2.30E+10	1.22E+10
11/25/22	3.94	297	81.148		21.22	1.70	318.37	2.26E+10	1.20E+10
11/11/22	3.92	298	81.421		21.12	1.69	316.82	2.25E+10	1.20E+10
9/25/22	3.90	299	81.694		21.03	1.68	315.48	2.24E+10	1.19E+10
11/22/22	3.89	300	81.967		20.98	1.68	314.64	2.24E+10	1.19E+10

date	S15 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
11/8/22	3.88	301	82.240		20.90	1.67	313.49	2.23E+10	1.19E+10
10/12/22	3.86	302	82.514		20.81	1.66	312.17	2.22E+10	1.18E+10
8/6/22	3.85	303	82.787		20.74	1.66	311.05	2.21E+10	1.18E+10
11/21/22	3.80	304	83.060		20.46	1.64	306.92	2.18E+10	1.16E+10
9/22/22	3.79	305	83.333		20.41	1.63	306.09	2.18E+10	1.16E+10
8/27/22	3.61	306	83.607		19.44	1.56	291.61	2.07E+10	1.10E+10
11/26/22	3.56	307	83.880		19.19	1.54	287.89	2.05E+10	1.09E+10
9/23/22	3.55	308	84.153		19.12	1.53	286.81	2.04E+10	1.08E+10
9/17/22	3.49	309	84.426		18.83	1.51	282.45	2.01E+10	1.07E+10
8/8/22	3.49	310	84.699		18.82	1.51	282.28	2.01E+10	1.07E+10
8/7/22	3.45	311	84.973		18.61	1.49	279.14	1.99E+10	1.06E+10
10/20/22	3.39	312	85.246		18.26	1.46	273.96	1.95E+10	1.04E+10
9/4/22	3.38	313	85.519		18.22	1.46	273.31	1.94E+10	1.03E+10
7/18/22	3.36	314	85.792		18.12	1.45	271.82	1.93E+10	1.03E+10
9/21/22	3.32	315	86.066		17.90	1.43	268.52	1.91E+10	1.02E+10
7/2/22	3.25	316	86.339		17.51	1.40	262.69	1.87E+10	9.94E+09
9/26/22	3.19	317	86.612		17.22	1.38	258.29	1.84E+10	9.77E+09
7/19/22	3.19	318	86.885		17.19	1.37	257.78	1.83E+10	9.75E+09
9/18/22	3.15	319	87.158		17.00	1.36	255.02	1.81E+10	9.65E+09
9/5/22	3.12	320	87.432		16.84	1.35	252.64	1.80E+10	9.56E+09
9/27/22	2.96	321	87.705		15.98	1.28	239.69	1.70E+10	9.07E+09
10/24/22	2.87	322	87.978		15.49	1.24	232.38	1.65E+10	8.79E+09
7/12/22	2.72	323	88.251		14.68	1.17	220.16	1.57E+10	8.33E+09
7/3/22	2.63	324	88.525		14.20	1.14	213.02	1.51E+10	8.06E+09
7/31/22	2.57	325	88.798		13.83	1.11	207.45	1.48E+10	7.85E+09
9/6/22	2.52	326	89.071		13.56	1.09	203.46	1.45E+10	7.70E+09
10/4/22	2.49	327	89.344		13.42	1.07	201.35	1.43E+10	7.62E+09
8/18/22	2.43	328	89.617		13.10	1.05	196.46	1.40E+10	7.43E+09
9/29/22	2.16	329	89.891		11.66	0.93	174.90	1.24E+10	6.62E+09
10/10/22	2.12	330	90.164		11.40	0.91	171.03	1.22E+10	6.47E+09
7/4/22	2.02	331	90.437		10.90	0.87	163.52	1.16E+10	6.19E+09
10/9/22	2.01	332	90.710		10.82	0.87	162.23	1.15E+10	6.14E+09
8/25/22	1.98	333	90.984		10.66	0.85	159.90	1.14E+10	6.05E+09
9/7/22	1.91	334	91.257		10.29	0.82	154.28	1.10E+10	5.84E+09
10/11/22	1.66	335	91.530		8.96	0.72	134.39	9.56E+09	5.08E+09
11/9/22	1.65	336	91.803		8.90	0.71	133.55	9.50E+09	5.05E+09
10/5/22	1.45	337	92.077		7.81	0.62	117.18	8.33E+09	4.43E+09
9/28/22	1.33	338	92.350		7.19	0.58	107.81	7.67E+09	4.08E+09
10/23/22	1.28	339	92.623		6.92	0.55	103.77	7.38E+09	3.93E+09
10/1/22	1.18	340	92.896		6.36	0.51	95.35	6.78E+09	3.61E+09
10/8/22	1.10	341	93.169		5.93	0.47	88.91	6.32E+09	3.36E+09
7/17/22	1.04	342	93.443		5.62	0.45	84.29	5.99E+09	3.19E+09
10/21/22	1.04	343	93.716		5.62	0.45	84.27	5.99E+09	3.19E+09
7/6/22	1.00	344	93.989		5.42	0.43	81.25	5.78E+09	3.07E+09
7/7/22	1.00	345	94.262		5.40	0.43	81.04	5.76E+09	3.07E+09
8/28/22	0.80	346	94.536		4.33	0.35	64.95	4.62E+09	2.46E+09
9/8/22	0.77	347	94.809		4.13	0.33	62.00	4.41E+09	2.35E+09
10/3/22	0.70	348	95.082		3.78	0.30	56.74	4.04E+09	2.15E+09
9/30/22	0.68	349	95.355		3.69	0.30	55.34	3.94E+09	2.09E+09
9/10/22	0.65	350	95.628		3.51	0.28	52.61	3.74E+09	1.99E+09
7/22/22	0.60	351	95.902		3.23	0.26	48.50	3.45E+09	1.83E+09
7/21/22	0.59	352	96.175		3.16	0.25	47.45	3.37E+09	1.79E+09
7/14/22	0.58	353	96.448		3.12	0.25	46.78	3.33E+09	1.77E+09
10/7/22	0.57	354	96.721		3.10	0.25	46.49	3.31E+09	1.76E+09
7/23/22	0.57	355	96.995		3.07	0.25	46.07	3.28E+09	1.74E+09
8/26/22	0.57	356	97.268		3.06	0.24	45.92	3.27E+09	1.74E+09
7/16/22	0.53	357	97.541		2.87	0.23	43.12	3.07E+09	1.63E+09
10/22/22	0.51	358	97.814		2.75	0.22	41.21	2.93E+09	1.56E+09
7/13/22	0.51	359	98.087		2.74	0.22	41.16	2.93E+09	1.56E+09
10/6/22	0.48	360	98.361		2.60	0.21	39.04	2.78E+09	1.48E+09

date	S15 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
7/5/22	0.45	361	98.634		2.40	0.19	36.03	2.56E+09	1.36E+09
7/20/22	0.40	362	98.907		2.14	0.17	32.03	2.28E+09	1.21E+09
10/2/22	0.35	363	99.180		1.86	0.15	27.89	1.98E+09	1.06E+09
7/15/22	0.33	364	99.454		1.80	0.14	27.02	1.92E+09	1.02E+09
9/9/22	0.17	365	99.727		0.91	0.07	13.58	9.66E+08	5.14E+08
<b>TOTAL NUMBER</b>	365								
					1.00	0.08	15.00	235.00	125.00
					5.39	5.39	5.39	24465758.40	24465758.40



Date	Flow	NO3_N (mg/L)	TP (mg/L)	TSS (mg/L)	Ecoli (col/100 mL)
1/26/22	4.69	4.36	0.155	5	11.1
2/23/22	199.66	5.94	0.597	21	167.4
3/23/22	563.17	4.92	2.08	130	98.4
4/27/22	52.51	3.15	0.331	3	35
5/24/22	12.89	3.73	0.184	3	98.5
6/27/22	9.07	3.58	0.37	3	163.8
7/25/22	11.82	3.02	0.171	2	325.5
8/22/22	5.51	2.78	0.158	4	325.5
9/28/22	1.33	2.36	0.039	17	2419.6
10/24/22	2.87	1.93	0.006	1	21.6
11/16/22	4.85	1.35	0.051	3	54.8
12/21/22	9.03	1.6	0.012	2	12.5
1/25/23					

Date	% Flow Exceed		NO3 Act Load	TP Act Load	TSS Act Load	Ecoli Act Load
1/26/22	74.04371585		110.3186639	3.92187911	126.5122292	1.27E+09
2/23/22	3.551912568		6392.41965	642.47046	22599.46341	8.18E+11
3/23/22	1.092896175		14934.64282	6313.83274	394614.546	1.36E+12
4/27/22	21.03825137		891.6123434	93.6900589	849.1546128	4.50E+10
5/24/22	49.18032787		259.0730587	12.7800115	208.3697523	3.11E+10
6/27/22	54.91803279		175.0560818	18.0923883	146.6950406	3.64E+10
7/25/22	21.8579235		192.4104228	10.8947624	127.4241211	9.41E+10
8/22/22	66.66666667		82.62789422	4.69611773	118.8890564	4.39E+10
9/28/22	92.34972678		16.9627899	0.28031729	122.1895882	7.89E+10
10/24/22	87.97814208		29.89904985	0.09295041	15.49173567	1.52E+09
11/16/22	72.13114754		35.26633257	1.33228367	78.36962793	6.50E+09
12/21/22	55.19125683		77.91184606	0.58433885	97.38980758	2.76E+09
1/25/23						

Date	Ann Load Proxy Range		NO3 Ann Load	TP Ann Load
1/26/22		28	3088.922589	109.812615
2/23/22		28	178987.7502	17989.17287
3/23/22		35	522712.4986	220984.1458
4/27/22		27	24073.53327	2529.631591
5/24/22		34	8808.483997	434.5203902
6/27/22		28	4901.570289	506.5868735
7/25/22		28	5387.491839	305.0533459
8/22/22		37	3057.232086	173.756356
9/28/22		26	441.0325373	7.288249557
10/24/22		23	687.6781465	2.137859523
11/16/22		35	1234.32164	46.62992862
12/21/22		35	2726.914612	20.45185959
1/25/23				

Date	TSS Ann Load	Ecoli Ann Load
1/26/22	3542.342418	3.57E+10
2/23/22	632784.9754	2.29E+13
3/23/22	13811509.11	4.75E+13
4/27/22	22927.17455	1.21E+12
5/24/22	7084.571579	1.06E+12
6/27/22	4107.461136	1.02E+12
7/25/22	3567.87539	2.64E+12
8/22/22	4398.895088	1.62E+12
9/28/22	3176.929294	2.05E+12
10/24/22	356.3099205	3.49E+10
11/16/22	2742.936978	2.27E+11
12/21/22	3408.643265	9.67E+10
1/25/23		

date	S1 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
2/17/22	209.82	1	0.273		1130.91	90.47	16963.64	1.21E+12	6.42E+11
3/7/22	143.98	2	0.546		776.07	62.09	11641.00	8.28E+11	4.40E+11
2/18/22	101.58	3	0.820		547.50	43.80	8212.47	5.84E+11	3.11E+11
3/23/22	93.96	4	1.093		506.43	40.51	7596.45	5.40E+11	2.87E+11
5/1/22	61.86	5	1.366		333.42	26.67	5001.28	3.56E+11	1.89E+11
3/8/22	56.41	6	1.639		304.03	24.32	4560.43	3.24E+11	1.73E+11
2/22/22	46.50	7	1.913		250.64	20.05	3759.65	2.67E+11	1.42E+11
2/16/22	41.31	8	2.186		222.66	17.81	3339.91	2.38E+11	1.26E+11
3/24/22	40.20	9	2.459		216.67	17.33	3250.00	2.31E+11	1.23E+11
5/6/22	38.39	10	2.732		206.92	16.55	3103.73	2.21E+11	1.17E+11
1/2/22	36.66	11	3.005		197.58	15.81	2963.77	2.11E+11	1.12E+11
2/19/22	35.11	12	3.279		189.22	15.14	2838.32	2.02E+11	1.07E+11
2/23/22	33.31	13	3.552		179.54	14.36	2693.15	1.92E+11	1.02E+11
8/30/22	32.73	14	3.825		176.40	14.11	2645.96	1.88E+11	1.00E+11
2/2/22	32.47	15	4.098		175.02	14.00	2625.30	1.87E+11	9.93E+10
5/7/22	31.00	16	4.372		167.07	13.37	2505.99	1.78E+11	9.48E+10
5/4/22	28.43	17	4.645		153.21	12.26	2298.22	1.63E+11	8.69E+10
3/9/22	28.04	18	4.918		151.12	12.09	2266.74	1.61E+11	8.57E+10
6/12/22	27.61	19	5.191		148.84	11.91	2232.62	1.59E+11	8.45E+10
6/13/22	26.22	20	5.464		141.34	11.31	2120.11	1.51E+11	8.02E+10
5/2/22	23.14	21	5.738		124.72	9.98	1870.81	1.33E+11	7.08E+10
4/14/22	22.83	22	6.011		123.05	9.84	1845.69	1.31E+11	6.98E+10
5/27/22	22.64	23	6.284		122.01	9.76	1830.22	1.30E+11	6.92E+10
5/3/22	22.19	24	6.557		119.60	9.57	1793.95	1.28E+11	6.79E+10
6/14/22	21.89	25	6.831		117.98	9.44	1769.71	1.26E+11	6.69E+10
3/25/22	21.85	26	7.104		117.74	9.42	1766.17	1.26E+11	6.68E+10
2/21/22	21.41	27	7.377		115.39	9.23	1730.83	1.23E+11	6.55E+10
2/20/22	20.99	28	7.650		113.13	9.05	1696.91	1.21E+11	6.42E+10
3/22/22	20.33	29	7.923		109.59	8.77	1643.91	1.17E+11	6.22E+10
2/3/22	19.19	30	8.197		103.41	8.27	1551.20	1.10E+11	5.87E+10
1/1/22	18.89	31	8.470		101.83	8.15	1527.43	1.09E+11	5.78E+10
5/5/22	17.94	32	8.743		96.72	7.74	1450.85	1.03E+11	5.49E+10
3/10/22	17.85	33	9.016		96.20	7.70	1443.06	1.03E+11	5.46E+10
12/31/22	17.69	34	9.290		95.33	7.63	1429.99	1.02E+11	5.41E+10
3/26/22	16.80	35	9.563		90.57	7.25	1358.59	9.66E+10	5.14E+10
4/25/22	16.78	36	9.836		90.44	7.24	1356.56	9.65E+10	5.13E+10
2/24/22	16.70	37	10.109		90.02	7.20	1350.33	9.60E+10	5.11E+10
2/12/22	16.34	38	10.383		88.06	7.04	1320.92	9.39E+10	5.00E+10
1/3/22	16.17	39	10.656		87.14	6.97	1307.16	9.30E+10	4.94E+10
5/26/22	15.88	40	10.929		85.58	6.85	1283.73	9.13E+10	4.86E+10
9/11/22	15.37	41	11.202		82.86	6.63	1242.84	8.84E+10	4.70E+10
5/8/22	14.33	42	11.475		77.23	6.18	1158.42	8.24E+10	4.38E+10
3/11/22	14.14	43	11.749		76.24	6.10	1143.57	8.13E+10	4.33E+10
4/7/22	13.95	44	12.022		75.18	6.01	1127.72	8.02E+10	4.27E+10
4/15/22	13.81	45	12.295		74.45	5.96	1116.75	7.94E+10	4.22E+10
1/9/22	13.80	46	12.568		74.40	5.95	1116.07	7.94E+10	4.22E+10
4/26/22	13.58	47	12.842		73.20	5.86	1097.98	7.81E+10	4.15E+10
3/19/22	13.42	48	13.115		72.33	5.79	1084.96	7.72E+10	4.10E+10
3/27/22	13.14	49	13.388		70.80	5.66	1061.97	7.55E+10	4.02E+10
2/25/22	13.08	50	13.661		70.51	5.64	1057.67	7.52E+10	4.00E+10
3/1/22	12.65	51	13.934		68.16	5.45	1022.38	7.27E+10	3.87E+10
3/20/22	12.26	52	14.208		66.10	5.29	991.46	7.05E+10	3.75E+10
2/28/22	12.15	53	14.481		65.51	5.24	982.66	6.99E+10	3.72E+10
2/27/22	11.68	54	14.754		62.94	5.03	944.05	6.71E+10	3.57E+10
10/26/22	11.60	55	15.027		62.50	5.00	937.51	6.67E+10	3.55E+10
3/2/22	11.37	56	15.301		61.28	4.90	919.19	6.54E+10	3.48E+10
4/6/22	11.36	57	15.574		61.25	4.90	918.82	6.53E+10	3.48E+10
5/28/22	11.36	58	15.847		61.21	4.90	918.19	6.53E+10	3.47E+10
8/9/22	11.09	59	16.120		59.78	4.78	896.76	6.38E+10	3.39E+10
3/12/22	10.95	60	16.393		59.02	4.72	885.23	6.30E+10	3.35E+10

date	S1 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
3/28/22	10.58	61	16.667		57.03	4.56	855.38	6.08E+10	3.24E+10
4/8/22	10.57	62	16.940		56.95	4.56	854.28	6.08E+10	3.23E+10
2/26/22	10.50	63	17.213		56.58	4.53	848.70	6.04E+10	3.21E+10
1/4/22	10.48	64	17.486		56.48	4.52	847.16	6.02E+10	3.20E+10
12/15/22	10.17	65	17.760		54.80	4.38	822.07	5.85E+10	3.11E+10
3/31/22	10.07	66	18.033		54.29	4.34	814.35	5.79E+10	3.08E+10
3/21/22	10.05	67	18.306		54.17	4.33	812.48	5.78E+10	3.07E+10
4/16/22	10.03	68	18.579		54.06	4.32	810.89	5.77E+10	3.07E+10
6/15/22	9.73	69	18.852		52.46	4.20	786.83	5.60E+10	2.98E+10
5/9/22	9.60	70	19.126		51.76	4.14	776.42	5.52E+10	2.94E+10
4/9/22	9.40	71	19.399		50.65	4.05	759.77	5.40E+10	2.87E+10
11/27/22	9.32	72	19.672		50.25	4.02	753.75	5.36E+10	2.85E+10
3/3/22	9.16	73	19.945		49.36	3.95	740.35	5.26E+10	2.80E+10
3/29/22	9.16	74	20.219		49.36	3.95	740.33	5.26E+10	2.80E+10
4/13/22	9.10	75	20.492		49.04	3.92	735.60	5.23E+10	2.78E+10
2/13/22	8.77	76	20.765		47.27	3.78	709.12	5.04E+10	2.68E+10
4/27/22	8.76	77	21.038		47.22	3.78	708.35	5.04E+10	2.68E+10
3/13/22	8.76	78	21.311		47.20	3.78	708.05	5.04E+10	2.68E+10
3/30/22	8.61	79	21.585		46.38	3.71	695.77	4.95E+10	2.63E+10
7/25/22	8.43	80	21.858		45.42	3.63	681.33	4.85E+10	2.58E+10
1/5/22	8.35	81	22.131		44.99	3.60	674.90	4.80E+10	2.55E+10
2/11/22	8.17	82	22.404		44.02	3.52	660.34	4.70E+10	2.50E+10
3/6/22	8.07	83	22.678		43.49	3.48	652.40	4.64E+10	2.47E+10
3/14/22	8.06	84	22.951		43.44	3.47	651.56	4.63E+10	2.46E+10
1/10/22	8.06	85	23.224		43.43	3.47	651.50	4.63E+10	2.46E+10
4/10/22	7.97	86	23.497		42.98	3.44	644.75	4.58E+10	2.44E+10
4/1/22	7.95	87	23.770		42.83	3.43	642.42	4.57E+10	2.43E+10
2/4/22	7.79	88	24.044		41.98	3.36	629.66	4.48E+10	2.38E+10
4/17/22	7.77	89	24.317		41.91	3.35	628.58	4.47E+10	2.38E+10
4/18/22	7.62	90	24.590		41.06	3.28	615.92	4.38E+10	2.33E+10
3/4/22	7.48	91	24.863		40.33	3.23	604.88	4.30E+10	2.29E+10
3/15/22	7.39	92	25.137		39.82	3.19	597.25	4.25E+10	2.26E+10
4/11/22	7.35	93	25.410		39.64	3.17	594.57	4.23E+10	2.25E+10
5/10/22	7.24	94	25.683		39.00	3.12	585.02	4.16E+10	2.21E+10
5/29/22	7.15	95	25.956		38.52	3.08	577.85	4.11E+10	2.19E+10
4/19/22	7.14	96	26.230		38.50	3.08	577.43	4.11E+10	2.18E+10
4/2/22	7.04	97	26.503		37.95	3.04	569.24	4.05E+10	2.15E+10
3/18/22	7.02	98	26.776		37.82	3.03	567.30	4.03E+10	2.15E+10
4/28/22	7.01	99	27.049		37.77	3.02	566.58	4.03E+10	2.14E+10
3/5/22	6.90	100	27.322		37.20	2.98	558.04	3.97E+10	2.11E+10
3/16/22	6.90	101	27.596		37.18	2.97	557.76	3.97E+10	2.11E+10
4/3/22	6.72	102	27.869		36.23	2.90	543.52	3.87E+10	2.06E+10
4/5/22	6.71	103	28.142		36.18	2.89	542.65	3.86E+10	2.05E+10
4/12/22	6.61	104	28.415		35.63	2.85	534.48	3.80E+10	2.02E+10
3/17/22	6.42	105	28.689		34.63	2.77	519.45	3.69E+10	1.96E+10
9/12/22	6.37	106	28.962		34.32	2.75	514.83	3.66E+10	1.95E+10
4/4/22	6.31	107	29.235		34.02	2.72	510.26	3.63E+10	1.93E+10
6/16/22	6.22	108	29.508		33.54	2.68	503.04	3.58E+10	1.90E+10
4/29/22	6.18	109	29.781		33.33	2.67	499.90	3.55E+10	1.89E+10
4/20/22	6.16	110	30.055		33.22	2.66	498.24	3.54E+10	1.88E+10
4/21/22	6.07	111	30.328		32.73	2.62	490.98	3.49E+10	1.86E+10
5/20/22	6.00	112	30.601		32.32	2.59	484.84	3.45E+10	1.83E+10
2/14/22	5.95	113	30.874		32.06	2.56	480.86	3.42E+10	1.82E+10
5/11/22	5.94	114	31.148		32.00	2.56	479.94	3.41E+10	1.82E+10
4/30/22	5.88	115	31.421		31.71	2.54	475.64	3.38E+10	1.80E+10
1/6/22	5.88	116	31.694		31.69	2.54	475.41	3.38E+10	1.80E+10
5/16/22	5.65	117	31.967		30.46	2.44	456.88	3.25E+10	1.73E+10
11/28/22	5.58	118	32.240		30.08	2.41	451.21	3.21E+10	1.71E+10
4/22/22	5.56	119	32.514		29.98	2.40	449.73	3.20E+10	1.70E+10
4/23/22	5.46	120	32.787		29.42	2.35	441.26	3.14E+10	1.67E+10

date	S1 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
12/30/22	5.23	121	33.060		28.20	2.26	422.94	3.01E+10	1.60E+10
5/30/22	5.20	122	33.333		28.02	2.24	420.28	2.99E+10	1.59E+10
4/24/22	5.14	123	33.607		27.70	2.22	415.57	2.96E+10	1.57E+10
5/12/22	5.12	124	33.880		27.60	2.21	414.05	2.94E+10	1.57E+10
1/11/22	5.03	125	34.153		27.10	2.17	406.48	2.89E+10	1.54E+10
8/31/22	4.82	126	34.426		25.98	2.08	389.63	2.77E+10	1.47E+10
12/27/22	4.65	127	34.699		25.07	2.01	375.98	2.67E+10	1.42E+10
5/14/22	4.56	128	34.973		24.56	1.97	368.46	2.62E+10	1.39E+10
6/17/22	4.55	129	35.246		24.51	1.96	367.58	2.61E+10	1.39E+10
5/13/22	4.52	130	35.519		24.38	1.95	365.73	2.60E+10	1.38E+10
5/19/22	4.47	131	35.792		24.09	1.93	361.29	2.57E+10	1.37E+10
5/15/22	4.45	132	36.066		24.00	1.92	359.97	2.56E+10	1.36E+10
12/16/22	4.42	133	36.339		23.84	1.91	357.63	2.54E+10	1.35E+10
2/10/22	4.41	134	36.612		23.76	1.90	356.46	2.53E+10	1.35E+10
8/10/22	4.19	135	36.885		22.59	1.81	338.79	2.41E+10	1.28E+10
1/7/22	4.17	136	37.158		22.47	1.80	337.02	2.40E+10	1.27E+10
5/18/22	4.06	137	37.432		21.90	1.75	328.53	2.34E+10	1.24E+10
1/12/22	4.03	138	37.705		21.71	1.74	325.59	2.32E+10	1.23E+10
5/31/22	4.00	139	37.978		21.59	1.73	323.79	2.30E+10	1.22E+10
12/26/22	4.00	140	38.251		21.58	1.73	323.65	2.30E+10	1.22E+10
5/17/22	3.99	141	38.525		21.51	1.72	322.66	2.29E+10	1.22E+10
2/15/22	3.93	142	38.798		21.19	1.70	317.87	2.26E+10	1.20E+10
5/21/22	3.80	143	39.071		20.49	1.64	307.29	2.19E+10	1.16E+10
1/8/22	3.80	144	39.344		20.48	1.64	307.15	2.18E+10	1.16E+10
2/9/22	3.66	145	39.617		19.70	1.58	295.54	2.10E+10	1.12E+10
5/25/22	3.64	146	39.891		19.64	1.57	294.63	2.10E+10	1.11E+10
6/1/22	3.51	147	40.164		18.94	1.51	284.06	2.02E+10	1.07E+10
1/13/22	3.51	148	40.437		18.91	1.51	283.68	2.02E+10	1.07E+10
2/8/22	3.41	149	40.710		18.36	1.47	275.37	1.96E+10	1.04E+10
12/29/22	3.33	150	40.984		17.97	1.44	269.50	1.92E+10	1.02E+10
12/28/22	3.28	151	41.257		17.67	1.41	264.99	1.88E+10	1.00E+10
5/22/22	3.10	152	41.530		16.68	1.33	250.24	1.78E+10	9.47E+09
2/5/22	3.08	153	41.803		16.63	1.33	249.42	1.77E+10	9.43E+09
8/1/22	3.07	154	42.077		16.55	1.32	248.28	1.77E+10	9.39E+09
6/18/22	3.07	155	42.350		16.54	1.32	248.09	1.76E+10	9.38E+09
6/2/22	3.03	156	42.623		16.32	1.31	244.83	1.74E+10	9.26E+09
8/4/22	3.01	157	42.896		16.21	1.30	243.17	1.73E+10	9.20E+09
1/14/22	2.90	158	43.169		15.64	1.25	234.62	1.67E+10	8.87E+09
7/24/22	2.84	159	43.443		15.28	1.22	229.24	1.63E+10	8.67E+09
6/7/22	2.83	160	43.716		15.23	1.22	228.41	1.62E+10	8.64E+09
10/25/22	2.68	161	43.989		14.44	1.16	216.59	1.54E+10	8.19E+09
10/27/22	2.67	162	44.262		14.37	1.15	215.59	1.53E+10	8.15E+09
12/25/22	2.65	163	44.536		14.26	1.14	213.87	1.52E+10	8.09E+09
11/29/22	2.57	164	44.809		13.83	1.11	207.43	1.48E+10	7.85E+09
5/23/22	2.52	165	45.082		13.60	1.09	203.96	1.45E+10	7.72E+09
7/26/22	2.50	166	45.355		13.49	1.08	202.28	1.44E+10	7.65E+09
9/13/22	2.49	167	45.628		13.40	1.07	201.05	1.43E+10	7.60E+09
2/6/22	2.47	168	45.902		13.29	1.06	199.31	1.42E+10	7.54E+09
12/17/22	2.46	169	46.175		13.28	1.06	199.26	1.42E+10	7.54E+09
2/7/22	2.46	170	46.448		13.27	1.06	199.03	1.42E+10	7.53E+09
12/19/22	2.46	171	46.721		13.26	1.06	198.95	1.41E+10	7.53E+09
6/3/22	2.45	172	46.995		13.18	1.05	197.72	1.41E+10	7.48E+09
1/15/22	2.41	173	47.268		13.01	1.04	195.08	1.39E+10	7.38E+09
6/26/22	2.33	174	47.541		12.57	1.01	188.60	1.34E+10	7.13E+09
6/19/22	2.26	175	47.814		12.19	0.97	182.78	1.30E+10	6.91E+09
11/30/22	2.22	176	48.087		11.96	0.96	179.38	1.28E+10	6.79E+09
12/24/22	2.19	177	48.361		11.81	0.94	177.12	1.26E+10	6.70E+09
1/16/22	2.16	178	48.634		11.66	0.93	174.94	1.24E+10	6.62E+09
6/8/22	2.15	179	48.907		11.60	0.93	174.00	1.24E+10	6.58E+09
5/24/22	2.15	180	49.180		11.59	0.93	173.82	1.24E+10	6.57E+09

date	S1 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/6/22	2.11	181	49.454		11.36	0.91	170.45	1.21E+10	6.45E+09
8/11/22	2.09	182	49.727		11.24	0.90	168.60	1.20E+10	6.38E+09
6/11/22	2.07	183	50.000		11.18	0.89	167.74	1.19E+10	6.34E+09
7/27/22	1.97	184	50.273		10.63	0.85	159.44	1.13E+10	6.03E+09
6/4/22	1.97	185	50.546		10.59	0.85	158.92	1.13E+10	6.01E+09
6/9/22	1.95	186	50.820		10.52	0.84	157.75	1.12E+10	5.97E+09
8/2/22	1.90	187	51.093		10.22	0.82	153.33	1.09E+10	5.80E+09
6/10/22	1.84	188	51.366		9.93	0.79	148.88	1.06E+10	5.63E+09
8/5/22	1.83	189	51.639		9.89	0.79	148.35	1.05E+10	5.61E+09
12/23/22	1.82	190	51.913		9.80	0.78	146.94	1.04E+10	5.56E+09
7/28/22	1.81	191	52.186		9.76	0.78	146.36	1.04E+10	5.54E+09
9/1/22	1.80	192	52.459		9.68	0.77	145.14	1.03E+10	5.49E+09
6/20/22	1.77	193	52.732		9.55	0.76	143.32	1.02E+10	5.42E+09
6/5/22	1.77	194	53.005		9.52	0.76	142.84	1.02E+10	5.40E+09
12/14/22	1.75	195	53.279		9.42	0.75	141.30	1.00E+10	5.34E+09
12/18/22	1.74	196	53.552		9.40	0.75	141.02	1.00E+10	5.33E+09
8/29/22	1.74	197	53.825		9.35	0.75	140.32	9.98E+09	5.31E+09
1/17/22	1.65	198	54.098		8.88	0.71	133.19	9.47E+09	5.04E+09
7/9/22	1.64	199	54.372		8.81	0.71	132.22	9.40E+09	5.00E+09
6/21/22	1.56	200	54.645		8.41	0.67	126.18	8.97E+09	4.77E+09
6/27/22	1.51	201	54.918		8.16	0.65	122.37	8.70E+09	4.63E+09
12/21/22	1.51	202	55.191		8.12	0.65	121.86	8.67E+09	4.61E+09
8/12/22	1.50	203	55.464		8.08	0.65	121.13	8.61E+09	4.58E+09
6/22/22	1.48	204	55.738		7.99	0.64	119.83	8.52E+09	4.53E+09
12/1/22	1.41	205	56.011		7.60	0.61	113.95	8.10E+09	4.31E+09
8/14/22	1.41	206	56.284		7.59	0.61	113.88	8.10E+09	4.31E+09
2/1/22	1.39	207	56.557		7.48	0.60	112.14	7.97E+09	4.24E+09
9/14/22	1.39	208	56.831		7.47	0.60	111.99	7.96E+09	4.24E+09
7/29/22	1.38	209	57.104		7.45	0.60	111.82	7.95E+09	4.23E+09
10/28/22	1.35	210	57.377		7.30	0.58	109.50	7.79E+09	4.14E+09
6/23/22	1.25	211	57.650		6.75	0.54	101.24	7.20E+09	3.83E+09
12/20/22	1.25	212	57.923		6.74	0.54	101.13	7.19E+09	3.83E+09
12/22/22	1.25	213	58.197		6.71	0.54	100.69	7.16E+09	3.81E+09
8/21/22	1.24	214	58.470		6.66	0.53	99.96	7.11E+09	3.78E+09
1/18/22	1.22	215	58.743		6.57	0.53	98.48	7.00E+09	3.73E+09
12/10/22	1.21	216	59.016		6.51	0.52	97.63	6.94E+09	3.69E+09
12/2/22	1.17	217	59.290		6.30	0.50	94.43	6.71E+09	3.57E+09
8/15/22	1.16	218	59.563		6.25	0.50	93.69	6.66E+09	3.54E+09
8/3/22	1.15	219	59.836		6.19	0.50	92.90	6.61E+09	3.51E+09
8/13/22	1.13	220	60.109		6.07	0.49	91.06	6.48E+09	3.44E+09
8/20/22	1.13	221	60.383		6.06	0.49	90.97	6.47E+09	3.44E+09
7/30/22	1.08	222	60.656		5.84	0.47	87.65	6.23E+09	3.32E+09
12/3/22	1.08	223	60.929		5.82	0.47	87.26	6.21E+09	3.30E+09
8/16/22	1.06	224	61.202		5.70	0.46	85.57	6.09E+09	3.24E+09
7/8/22	1.05	225	61.475		5.69	0.45	85.28	6.06E+09	3.23E+09
9/2/22	1.04	226	61.749		5.63	0.45	84.44	6.00E+09	3.19E+09
7/10/22	1.03	227	62.022		5.56	0.44	83.38	5.93E+09	3.15E+09
8/23/22	1.02	228	62.295		5.50	0.44	82.54	5.87E+09	3.12E+09
9/19/22	1.02	229	62.568		5.49	0.44	82.38	5.86E+09	3.12E+09
1/31/22	1.00	230	62.842		5.41	0.43	81.18	5.77E+09	3.07E+09
12/7/22	1.00	231	63.115		5.38	0.43	80.64	5.73E+09	3.05E+09
10/29/22	0.99	232	63.388		5.31	0.42	79.65	5.66E+09	3.01E+09
10/18/22	0.98	233	63.661		5.31	0.42	79.59	5.66E+09	3.01E+09
12/6/22	0.98	234	63.934		5.26	0.42	78.87	5.61E+09	2.98E+09
12/9/22	0.97	235	64.208		5.23	0.42	78.39	5.57E+09	2.97E+09
12/11/22	0.97	236	64.481		5.22	0.42	78.29	5.57E+09	2.96E+09
10/19/22	0.97	237	64.754		5.22	0.42	78.25	5.56E+09	2.96E+09
12/5/22	0.97	238	65.027		5.21	0.42	78.13	5.56E+09	2.96E+09
9/15/22	0.95	239	65.301		5.10	0.41	76.51	5.44E+09	2.89E+09
12/4/22	0.94	240	65.574		5.08	0.41	76.13	5.41E+09	2.88E+09



date	S1 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
6/24/22	0.94	241	65.847		5.05	0.40	75.72	5.38E+09	2.86E+09
12/8/22	0.93	242	66.120		5.01	0.40	75.11	5.34E+09	2.84E+09
6/28/22	0.93	243	66.393		5.00	0.40	74.95	5.33E+09	2.84E+09
8/22/22	0.92	244	66.667		4.96	0.40	74.38	5.29E+09	2.81E+09
11/13/22	0.91	245	66.940		4.89	0.39	73.35	5.22E+09	2.77E+09
1/19/22	0.91	246	67.213		4.88	0.39	73.17	5.20E+09	2.77E+09
12/12/22	0.90	247	67.486		4.86	0.39	72.93	5.19E+09	2.76E+09
10/31/22	0.87	248	67.760		4.70	0.38	70.52	5.01E+09	2.67E+09
9/24/22	0.87	249	68.033		4.68	0.37	70.23	4.99E+09	2.66E+09
12/13/22	0.86	250	68.306		4.65	0.37	69.70	4.96E+09	2.64E+09
1/30/22	0.86	251	68.579		4.64	0.37	69.59	4.95E+09	2.63E+09
11/4/22	0.86	252	68.852		4.63	0.37	69.41	4.94E+09	2.63E+09
11/6/22	0.84	253	69.126		4.52	0.36	67.84	4.82E+09	2.57E+09
9/3/22	0.84	254	69.399		4.52	0.36	67.82	4.82E+09	2.57E+09
8/19/22	0.84	255	69.672		4.51	0.36	67.71	4.82E+09	2.56E+09
6/25/22	0.84	256	69.945		4.51	0.36	67.69	4.81E+09	2.56E+09
11/5/22	0.84	257	70.219		4.51	0.36	67.62	4.81E+09	2.56E+09
10/13/22	0.83	258	70.492		4.49	0.36	67.40	4.79E+09	2.55E+09
10/30/22	0.83	259	70.765		4.47	0.36	67.08	4.77E+09	2.54E+09
10/15/22	0.82	260	71.038		4.43	0.35	66.47	4.73E+09	2.51E+09
1/29/22	0.82	261	71.311		4.42	0.35	66.34	4.72E+09	2.51E+09
1/20/22	0.81	262	71.585		4.37	0.35	65.62	4.67E+09	2.48E+09
10/14/22	0.81	263	71.858		4.37	0.35	65.50	4.66E+09	2.48E+09
11/16/22	0.81	264	72.131		4.36	0.35	65.37	4.65E+09	2.47E+09
7/1/22	0.80	265	72.404		4.33	0.35	64.95	4.62E+09	2.46E+09
1/28/22	0.80	266	72.678		4.31	0.35	64.72	4.60E+09	2.45E+09
6/29/22	0.79	267	72.951		4.27	0.34	64.09	4.56E+09	2.42E+09
11/1/22	0.79	268	73.224		4.26	0.34	63.84	4.54E+09	2.41E+09
1/24/22	0.78	269	73.497		4.22	0.34	63.32	4.50E+09	2.40E+09
1/25/22	0.78	270	73.770		4.22	0.34	63.32	4.50E+09	2.40E+09
1/26/22	0.78	271	74.044		4.22	0.34	63.32	4.50E+09	2.40E+09
1/27/22	0.78	272	74.317		4.22	0.34	63.32	4.50E+09	2.40E+09
1/21/22	0.76	273	74.590		4.12	0.33	61.81	4.40E+09	2.34E+09
1/23/22	0.76	274	74.863		4.08	0.33	61.19	4.35E+09	2.31E+09
11/19/22	0.76	275	75.137		4.08	0.33	61.13	4.35E+09	2.31E+09
9/16/22	0.75	276	75.410		4.06	0.32	60.91	4.33E+09	2.30E+09
11/14/22	0.75	277	75.683		4.06	0.32	60.86	4.33E+09	2.30E+09
10/16/22	0.75	278	75.956		4.05	0.32	60.82	4.33E+09	2.30E+09
11/15/22	0.75	279	76.230		4.05	0.32	60.77	4.32E+09	2.30E+09
1/22/22	0.75	280	76.503		4.03	0.32	60.41	4.30E+09	2.29E+09
11/17/22	0.74	281	76.776		4.00	0.32	60.05	4.27E+09	2.27E+09
7/11/22	0.74	282	77.049		3.98	0.32	59.66	4.24E+09	2.26E+09
11/18/22	0.73	283	77.322		3.95	0.32	59.28	4.22E+09	2.24E+09
11/2/22	0.73	284	77.596		3.94	0.32	59.16	4.21E+09	2.24E+09
9/20/22	0.73	285	77.869		3.94	0.32	59.14	4.21E+09	2.24E+09
11/12/22	0.73	286	78.142		3.92	0.31	58.79	4.18E+09	2.22E+09
8/17/22	0.71	287	78.415		3.85	0.31	57.69	4.10E+09	2.18E+09
11/10/22	0.71	288	78.689		3.81	0.30	57.08	4.06E+09	2.16E+09
10/17/22	0.70	289	78.962		3.79	0.30	56.92	4.05E+09	2.15E+09
11/3/22	0.70	290	79.235		3.79	0.30	56.84	4.04E+09	2.15E+09
6/30/22	0.69	291	79.508		3.73	0.30	55.99	3.98E+09	2.12E+09
8/24/22	0.68	292	79.781		3.69	0.29	55.30	3.93E+09	2.09E+09
11/20/22	0.67	293	80.055		3.63	0.29	54.48	3.87E+09	2.06E+09
11/23/22	0.67	294	80.328		3.63	0.29	54.47	3.87E+09	2.06E+09
11/7/22	0.67	295	80.601		3.62	0.29	54.35	3.86E+09	2.06E+09
11/24/22	0.67	296	80.874		3.60	0.29	54.02	3.84E+09	2.04E+09
11/25/22	0.66	297	81.148		3.54	0.28	53.12	3.78E+09	2.01E+09
11/11/22	0.65	298	81.421		3.52	0.28	52.86	3.76E+09	2.00E+09
9/25/22	0.65	299	81.694		3.51	0.28	52.63	3.74E+09	1.99E+09
11/22/22	0.65	300	81.967		3.50	0.28	52.49	3.73E+09	1.99E+09

date	S1 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
11/8/22	0.65	301	82.240		3.49	0.28	52.30	3.72E+09	1.98E+09
10/12/22	0.64	302	82.514		3.47	0.28	52.08	3.70E+09	1.97E+09
8/6/22	0.64	303	82.787		3.46	0.28	51.89	3.69E+09	1.96E+09
11/21/22	0.63	304	83.060		3.41	0.27	51.21	3.64E+09	1.94E+09
9/22/22	0.63	305	83.333		3.40	0.27	51.07	3.63E+09	1.93E+09
8/27/22	0.60	306	83.607		3.24	0.26	48.65	3.46E+09	1.84E+09
11/26/22	0.59	307	83.880		3.20	0.26	48.03	3.42E+09	1.82E+09
9/23/22	0.59	308	84.153		3.19	0.26	47.85	3.40E+09	1.81E+09
9/17/22	0.58	309	84.426		3.14	0.25	47.12	3.35E+09	1.78E+09
8/8/22	0.58	310	84.699		3.14	0.25	47.09	3.35E+09	1.78E+09
8/7/22	0.58	311	84.973		3.10	0.25	46.57	3.31E+09	1.76E+09
10/20/22	0.57	312	85.246		3.05	0.24	45.71	3.25E+09	1.73E+09
9/4/22	0.56	313	85.519		3.04	0.24	45.60	3.24E+09	1.72E+09
7/18/22	0.56	314	85.792		3.02	0.24	45.35	3.22E+09	1.72E+09
9/21/22	0.55	315	86.066		2.99	0.24	44.80	3.19E+09	1.69E+09
7/2/22	0.54	316	86.339		2.92	0.23	43.83	3.12E+09	1.66E+09
9/26/22	0.53	317	86.612		2.87	0.23	43.09	3.06E+09	1.63E+09
7/19/22	0.53	318	86.885		2.87	0.23	43.01	3.06E+09	1.63E+09
9/18/22	0.53	319	87.158		2.84	0.23	42.55	3.03E+09	1.61E+09
9/5/22	0.52	320	87.432		2.81	0.22	42.15	3.00E+09	1.59E+09
9/27/22	0.49	321	87.705		2.67	0.21	39.99	2.84E+09	1.51E+09
10/24/22	0.48	322	87.978		2.58	0.21	38.77	2.76E+09	1.47E+09
7/12/22	0.45	323	88.251		2.45	0.20	36.73	2.61E+09	1.39E+09
7/3/22	0.44	324	88.525		2.37	0.19	35.54	2.53E+09	1.34E+09
7/31/22	0.43	325	88.798		2.31	0.18	34.61	2.46E+09	1.31E+09
9/6/22	0.42	326	89.071		2.26	0.18	33.95	2.41E+09	1.28E+09
10/4/22	0.42	327	89.344		2.24	0.18	33.59	2.39E+09	1.27E+09
8/18/22	0.41	328	89.617		2.19	0.17	32.78	2.33E+09	1.24E+09
9/29/22	0.36	329	89.891		1.95	0.16	29.18	2.08E+09	1.10E+09
10/10/22	0.35	330	90.164		1.90	0.15	28.53	2.03E+09	1.08E+09
7/4/22	0.34	331	90.437		1.82	0.15	27.28	1.94E+09	1.03E+09
10/9/22	0.33	332	90.710		1.80	0.14	27.07	1.92E+09	1.02E+09
8/25/22	0.33	333	90.984		1.78	0.14	26.68	1.90E+09	1.01E+09
9/7/22	0.32	334	91.257		1.72	0.14	25.74	1.83E+09	9.74E+08
10/11/22	0.28	335	91.530		1.49	0.12	22.42	1.59E+09	8.48E+08
11/9/22	0.28	336	91.803		1.49	0.12	22.28	1.58E+09	8.43E+08
10/5/22	0.24	337	92.077		1.30	0.10	19.55	1.39E+09	7.40E+08
9/28/22	0.22	338	92.350		1.20	0.10	17.99	1.28E+09	6.80E+08
10/23/22	0.21	339	92.623		1.15	0.09	17.31	1.23E+09	6.55E+08
10/1/22	0.20	340	92.896		1.06	0.08	15.91	1.13E+09	6.02E+08
10/8/22	0.18	341	93.169		0.99	0.08	14.83	1.05E+09	5.61E+08
7/17/22	0.17	342	93.443		0.94	0.07	14.06	1.00E+09	5.32E+08
10/21/22	0.17	343	93.716		0.94	0.07	14.06	1.00E+09	5.32E+08
7/6/22	0.17	344	93.989		0.90	0.07	13.56	9.64E+08	5.13E+08
7/7/22	0.17	345	94.262		0.90	0.07	13.52	9.61E+08	5.11E+08
8/28/22	0.13	346	94.536		0.72	0.06	10.84	7.71E+08	4.10E+08
9/8/22	0.13	347	94.809		0.69	0.06	10.34	7.36E+08	3.91E+08
10/3/22	0.12	348	95.082		0.63	0.05	9.47	6.73E+08	3.58E+08
9/30/22	0.11	349	95.355		0.62	0.05	9.23	6.57E+08	3.49E+08
9/10/22	0.11	350	95.628		0.59	0.05	8.78	6.24E+08	3.32E+08
7/22/22	0.10	351	95.902		0.54	0.04	8.09	5.75E+08	3.06E+08
7/21/22	0.10	352	96.175		0.53	0.04	7.92	5.63E+08	2.99E+08
7/14/22	0.10	353	96.448		0.52	0.04	7.80	5.55E+08	2.95E+08
10/7/22	0.10	354	96.721		0.52	0.04	7.76	5.52E+08	2.93E+08
7/23/22	0.10	355	96.995		0.51	0.04	7.69	5.47E+08	2.91E+08
8/26/22	0.09	356	97.268		0.51	0.04	7.66	5.45E+08	2.90E+08
7/16/22	0.09	357	97.541		0.48	0.04	7.19	5.12E+08	2.72E+08
10/22/22	0.09	358	97.814		0.46	0.04	6.88	4.89E+08	2.60E+08
7/13/22	0.08	359	98.087		0.46	0.04	6.87	4.88E+08	2.60E+08
10/6/22	0.08	360	98.361		0.43	0.03	6.51	4.63E+08	2.46E+08

date	S1 flow (cfs)	Rank	PercentExceeded		NO3 Load	TP Load	TSS Load	Ecoli Load	Ecoli geo Load
7/5/22	0.07	361	98.634		0.40	0.03	6.01	4.27E+08	2.27E+08
7/20/22	0.07	362	98.907		0.36	0.03	5.34	3.80E+08	2.02E+08
10/2/22	0.06	363	99.180		0.31	0.02	4.65	3.31E+08	1.76E+08
7/15/22	0.06	364	99.454		0.30	0.02	4.51	3.21E+08	1.71E+08
9/9/22	0.03	365	99.727		0.15	0.01	2.27	1.61E+08	8.57E+07
<b>TOTAL NUMBER</b>	365								
					1.00	0.08	15.00	235.00	125.00
					5.39	5.39	5.39	24465758.40	24465758.40

Date	Flow	NO3_N (mg/L)	TP (mg/L)	TSS (mg/L)	Ecoli (col/100 mL)
1/26/22	0.78	4.12	0.121	7	9
2/23/22	33.31	3.77	0.184	6	185
3/23/22	93.96	3.89	1.17	80	435.2
4/27/22	8.76	2.47	0.216	4	68.9
5/24/22	2.15	3.91	0.081	2	235.9
6/27/22	1.51	3.24	0.156	5	275.5
7/25/22	1.97	1.24	0.106	2	165
8/22/22	0.92	0.545	0.001	15	920.8
9/28/22	0.22	0.228	0.174	33	727
11/16/22	0.81	0.275	0.066	8	2419.6
12/31/22					
1/25/23					

Date	% Flow Exceed		NO3 Act Load	TP Act Load	TSS Act Load	Ecoli Act Load
1/26/22	74.04371585		17.39199788	0.5107844	29.54951095	1.72E+08
2/23/22	3.551912568		676.8772798	33.0359203	1077.25827	1.51E+11
3/23/22	1.092896175		1970.013002	592.523191	40514.40622	1.00E+12
4/27/22	21.03825137		116.6412662	10.2002079	188.8927387	1.48E+10
5/24/22	49.18032787		45.30852581	0.93861652	23.17571653	1.24E+10
6/27/22	54.91803279		26.43193397	1.27264867	40.79002157	1.02E+10
7/25/22	21.8579235		13.18053655	1.12672329	21.25892992	7.96E+09
8/22/22	66.66666667		2.702515198	0.00495874	74.38115223	2.07E+10
9/28/22	92.34972678		0.273407158	0.20865283	39.57208866	3.96E+09
11/16/22	72.13114754		1.198530189	0.28764725	34.86633278	4.79E+10
12/31/22	9.289617486		0	0	0	0.00E+00
			0	0	0	0.00E+00
1/25/23						

Date	Ann Load Proxy Range		NO3 Ann Load	TP Ann Load
1/26/22		28	486.9759405	14.3019633
2/23/22		28	18952.56383	925.0057681
3/23/22		35	68950.45508	20738.31168
4/27/22		27	3149.314186	275.4056131
5/24/22		34	1540.489878	31.91296166
6/27/22		28	740.0941513	35.63416284
7/25/22		28	369.0550235	31.54825201
8/22/22		37	99.99306232	0.183473509
9/28/22		49	13.39695074	10.22398873
11/16/22		45	53.93385851	12.94412604
12/31/22			0	0
			0	0
1/25/23				

Date	TSS Ann Load	Ecoli Ann Load
1/26/22	827.3863067	4.83E+09
2/23/22	30163.23157	4.22E+12
3/23/22	1418004.218	3.50E+13
4/27/22	5100.103946	3.99E+11
5/24/22	787.9743619	4.22E+11
6/27/22	1142.120604	2.86E+11
7/25/22	595.2500379	2.23E+11
8/22/22	2752.102633	7.67E+11
9/28/22	1939.032344	1.94E+11
11/16/22	1568.984975	2.15E+12
12/31/22	0	0.00E+00
	0	0.00E+00
1/25/23		





# Appendix E: Subwatershed Data

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Subwatershed Name	Headwaters Little Potatoe Creek	Bowers Creek	Lye Creek Drain	Little Potatoe Creek-Lye Creek	Little Creek- Little Sugar Creek	Little Sugar Creek	Town of Linnsburg- Walnut Fork Sugar Creek
HUC	051201100201	051201100202	051201100203	051201100204	051201100301	051201100302	051201100303
Area (acres)	11,674	11,927	10,910	16,114	16,181	12,917	30,600
% of Watershed	6%	6%	6%	8%	8%	7%	16%
Stream (miles)	17.3	13.9	14.9	30.5	43.7	31.9	88.6
Impaired ECOLI 4A (miles)	10.84		10.20				51.93
Impaired Nutr 5A (miles)			0.02				
Impaired PCBs 5B (miles)					0.00	19.93	51.94
Impaired biotic comm (miles)							
Impaired DO (miles)							
HEL (acres)	6,329.3	4,917.2	5,011.0	9,321.1	9,402.5	8,953.9	20,250.7
HEL (%)	54.2%	41.2%	45.9%	57.8%	58.1%	69.3%	66.2%
Hydric (acres)	5,212.7	6,416.4	6,248.2	6,281.8	6,452.9	3,052.0	8,281.4
Hydric (%)	44.7%	53.8%	57.3%	39.0%	39.9%	23.6%	27.1%
Septic-Very Limited	11,573.3	11,915.0	10,887.1	15,764.7	16,169.2	12,741.7	30,285.9
Septic-VL (%)	99.1%	99.9%	99.8%	97.8%	99.9%	98.6%	99.0%
Floodplain (acres)		23	2	278	533	625	1,456
Floodplain (%)	0%	0%	0%	2%	3%	5%	5%
CFO (animals)	6,725	2,978	21,164	6,274		16,530	7,800
Hobby Farm (animals)	50	67	76	161	150	113	379
Manure estimate (tons)	29,892	1,467	1,652	3,472	1,855	2,467	7,536
Manure N estimate (lb)	537	697	799	1,707	2,279	1,180	4,330
Manure P estimate (lb)	267	342	394	841	1,090	580	2,113
Manure Ecoli Estimate (col)	2.78E+13	4.17E+13	4.56E+13	1.04E+14	5.80E+14	6.93E+13	4.84E+14
Municipal Sludge App (acres)	73	192	155	53	169	246	302
Livestock Access (miles)	0.0		1.2	1.2	1.7	0.5	4.5
Livestock Access (%)	0.0%	2.2%	8.3%	3.9%	3.9%	1.7%	5.1%
Streambank Erosion (miles)	1.3	1.7	1.2	7.9	9.8	6.7	17.1
Streambank Erosion (%)	7.7%	12.5%	8.3%	25.8%	22.5%	21.1%	19.2%
Narrow Buffer (miles)	3.1	0.0	1.6	1.5	4.3	1.0	9.7
Narrow Buffer (%)	18.0%	0.0%	10.9%	5.0%	9.9%	3.2%	11.0%

Subwatershed Name	Headwaters Little Potatoe Creek	Bowers Creek	Lye Creek Drain	Little Potatoe Creek-Lye Creek	Little Creek- Little Sugar Creek	Little Sugar Creek	Town of Linnsburg- Walnut Fork Sugar Creek
HUC	051201100201	051201100202	051201100203	051201100204	051201100301	051201100302	051201100303
Land Use (%)							
Ag - Row + Pasture	92.9%	94.7%	94.8%	87.8%	90.8%	85.5%	84.5%
Forest	1.0%	0.5%	0.9%	4.8%	3.6%	8.5%	7.4%
Wetland + Open water + grass	0.6%	0.6%	0.4%	2.6%	1.2%	0.8%	0.9%
Urban	5.5%	4.1%	3.8%	4.7%	4.3%	5.2%	7.2%
LUST	1	2			2		2
NPDES							Nucor
NPDES SSO							
Superfund							
VRP							
Brownfields							
Industrial Waste							
Solid Waste					1		1
Waste Restricted							
<u>Historic Water Quality Samples Exceeding Targets</u>							
DO	44%	--	0%	23%	37%	25%	34%
Cond	0%	--	0%	2%	1%	3%	5%
Turb	57%	--	67%	71%	90%	50%	68%
pH	11%	--	0%	0%	0%	0%	0%
Nitrate	67%	--	33%	70%	70%	71%	93%
TKN	33%	--	67%	54%	67%	53%	100%
TP	100%	--	100%	20%	71%	71%	59%
E. coli	60%	--	--	4%	6%	2%	79%
<u>Current Water Quality Samples Exceeding Targets</u>							
Temp	0%	0%	0%	0%	0%	0%	0%
DO	8%	8%	14%	8%	20%	17%	17%
pH	0%	8%	0%	0%	0%	0%	0%
Turb	42%	33%	29%	33%	50%	25%	33%
Cond	0%	0%	0%	0%	0%	0%	8%
TP	67%	83%	86%	67%	80%	67%	67%
Nitrate	50%	58%	100%	67%	80%	100%	83%
TSS	25%	17%	29%	17%	20%	25%	17%
Ecoli	42%	25%	86%	17%	60%	25%	33%

Subwatershed Name	Sanitary Ditch- Prairie Creek	Deer Creek- Prairie Creek	Wolf Creek	Goldsberry Creek- Sugar Creek	Withe Creek- Sugar Creek	Hazel Creek- Sugar Creek	Town of Garfield-Sugar Creek
HUC	051201100401	051201100402	051201100403	051201100404	051201100405	051201100406	051201100407
Area (acres)	14,226	17,381	16,258	11,307	10,902	16,166	7,973
% of Watershed	7%	9%	8%	6%	6%	8%	4%
Stream (miles)	62.3	62.9	42.4	30.1	24.4	42.2	25.2
Impaired ECOLI 4A (miles)				12.36	10.57	15.51	14.63
Impaired Nutr 5A (miles)				0.00	10.55	0.00	
Impaired PCBs 5B (miles)							
Impaired biotic comm (miles)							
Impaired DO (miles)							
HEL (acres)	6,544.5	10,143.9	9,609.3	6,532.3	6,269.4	10,204.7	5,126.0
HEL (%)	46.0%	58.4%	59.1%	57.8%	57.5%	63.1%	64.3%
Hydric (acres)	6,656.6	5,609.1	5,898.4	3,459.3	3,373.1	4,610.2	1,599.0
Hydric (%)	46.8%	32.3%	36.3%	30.6%	30.9%	28.5%	20.1%
Septic-Very Limited	14,166.9	17,182.4	16,182.6	10,978.7	10,765.0	16,028.8	7,693.2
Septic-VL (%)	99.6%	98.9%	99.5%	97.1%	98.7%	99.2%	96.5%
Floodplain (acres)	1,588	1,790	66	842	749	1,054	986
Floodplain (%)	11%	10%	0%	7%	7%	7%	12%
CFO (animals)			54,375		10,000		
Hobby Farm (animals)	10	404	319	120	141	280	182
Manure estimate (tons)	219	8,718	3,141	2,611	3,073	5,259	3,731
Manure N estimate (lb)	104	4,290	4,295	1,260	1,477	3,047	2,066
Manure P estimate (lb)	51	2,123	2,301	620	726	1,652	1,051
Manure Ecoli Estimate (col)	6.22E+12	2.34E+14	2.82E+14	7.23E+13	8.57E+13	1.37E+14	7.92E+13
Municipal Sludge App (acres)	258	1609	150	98	201	520	1371
Livestock Access (miles)	0.0	0.5	2.3	1.2	0.0	1.5	0.9
Livestock Access (%)	0.0%	0.8%	5.4%	3.9%	0.0%	3.5%	3.4%
Streambank Erosion (miles)	0.5	9.9	7.8	3.0	5.2	7.2	6.7
Streambank Erosion (%)	0.9%	15.8%	18.4%	10.1%	21.2%	17.0%	26.3%
Narrow Buffer (miles)	0.6	0.0	1.7	0.0	0.0	0.0	1.8
Narrow Buffer (%)	0.9%	0.0%	3.9%	0.0%	0.0%	0.0%	7.1%

Subwatershed Name	Sanitary Ditch- Prairie Creek 051201100401	Deer Creek- Prairie Creek 051201100402	Wolf Creek 051201100403	Goldsberry Creek- Sugar Creek 051201100404	Withe Creek- Sugar Creek 051201100405	Hazel Creek- Sugar Creek 051201100406	Town of Garfield-Sugar Creek 051201100407
Land Use (%)							
Ag - Row + Pasture	71.5%	79.7%	89.7%	85.0%	84.1%	83.7%	75.2%
Forest	1.8%	4.7%	4.7%	5.3%	7.7%	7.4%	17.1%
Wetland + Open water + grass	1.8%	1.4%	1.0%	2.5%	2.1%	2.1%	2.3%
Urban	24.8%	14.1%	4.6%	7.1%	6.1%	6.8%	5.3%
LUST	78	18	1	8	6	7	1
NPDES	lebanon			Thorntown and WEBB	colfax	darlington	
NPDES SSO							
Superfund							
VRP							
Brownfields	4						
Industrial Waste							
Solid Waste	2 (lebanon)			1	1	1	
Waste Restricted							
<u>Historic Water Quality Samples Exceeding Targets</u>							
DO	--	0%	--	0%	0%	29%	0%
Cond	--	0%	--	--	0%	0%	0%
Turb	--	93%	--	100%	90%	42%	78%
pH	--	0%	--	0%	0%	0%	0%
Nitrate	--	--	--	75%	100%	100%	50%
TKN	--	--	--	--	100%	100%	60%
TP	--	--	--	--	100%	100%	50%
E. coli	--	--	--	0%	100%	80%	60%
<u>Current Water Quality Samples Exceeding Targets</u>							
Temp	0%	0%	0%	0%	0%	0%	0%
DO	75%	50%	4.2%	9%	50%	17%	8%
pH	0%	0%	0%	0%	0%	0%	0%
Turb	33%	25%	17%	31%	17%	25%	33%
Cond	50%	25%	0%	4%	0%	0%	0%
TP	75%	67%	75%	78%	58%	58%	50%
Nitrate	100%	100%	92%	96%	83%	75%	83%
TSS	8%	25%	17%	26%	17%	17%	17%
Ecoli	58%	58%	33%	48%	25%	25%	42%

# Appendix E: Subwatershed data and rankings

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HUC	Impaired ECOLI 4A (miles)	Impaired Nutr 5A (miles)	Hydric (%)	Floodplain (%)	Floodplain - ag	Livestock Access (%)	HUC
201	63%	63%	45%	0%		0%	201
202	0%	0%	54%	0%	100%	2%	202
203	0%	0%	57%	0%	38%	8%	203
204	33%	0%	39%	2%	20%	4%	204
301	0%	0%	40%	3%	65%	4%	301
302	0%	0%	24%	5%	30%	2%	302
303	59%	0%	27%	5%	39%	5%	303
401	0%	0%	47%	11%	55%	0%	401
402	0%	0%	32%	10%	50%	1%	402
403	0%	0%	36%	0%	50%	5%	403
404	41%	0%	31%	7%	47%	4%	404
405	43%	43%	31%	7%	33%	0%	405
406	20%	0%	29%	7%	54%	3%	406
407	58%	0%	20%	12%	44%	3%	407

HUC	Impaired ECOLI 4A (miles)	Impaired Nutr 5A (miles)	Hydric (%)	Floodplain (%)	Floodplain - ag	Livestock Access (%)	HUC
201	1	1	4	14	14	14	201
202			2	14	1	9	202
203			1	14	10	1	203
204	6		6	10	13	4	204
301			5	9	2	5	301
302			13	7	12	10	302
303	2		12	8	9	3	303
401			3	2	3	14	401
402			8	3	6	11	402
403			7	14	5	2	403
404	5		10	4	7	6	404
405	4	2	9	5	11	14	405
406	7		11	6	4	7	406
407	3		14	1	8	8	407

Habitat/connectivity

Streambank Erosion   Narrow Buffer (%)	Ag - Row	Urban	Turb - hist	Nitrate - hi: TKN - hist TP - hist	E. coli - hist
8%	93%	5.5%	57%	67%	60%
13%	95%	4.1%	--	--	--
8%	95%	3.8%	67%	33%	100%
26%	88%	4.7%	25%	25%	100%
22%	91%	4.3%	90%	70%	6%
21%	85%	5.2%	50%	71%	2%
19%	84%	7.2%	68%	93%	79%
1%	72%	24.8%	--	--	--
16%	80%	14.1%	93%	--	--
18%	90%	4.6%	--	--	--
10%	85%	7.1%	100%	75%	0%
21%	84%	6.1%	90%	100%	100%
17%	84%	6.8%	42%	100%	80%
26%	75%	5.3%	78%	50%	60%

Streambank Erosion   Narrow Buffer (%)	Ag - Row	Urban	Turb - hist	Nitrate - hi: TKN - hist TP - hist	E. coli - hist
13	3	7	4	4	4
10	1	13	5	2	5
12	1	14	1	1	5
1	6	10	8	5	3
3	4	12	3	6	2
4	7	9	6	8	6
6	9	3	9	7	2
14	14	1	10	9	1
9	12	2	8	9	8
7	5	11	2	9	7
11	7	4	7	9	5
4	9	6	2	9	7
8	9	5	7	3	5
1	13	8	7	3	1

HUC	Turb-Current	TP - current	Nitrate - current	TSS - current	E. coli - Cur	Poorly drain	Very poorly drain	Manure	Ecil Sludge	Ap
201	42%	67%	50%	25%	42%	51%	8%	2.78E+13	72.6	
202	33%	83%	58%	17%	25%	48%	6%	4.17E+13	192.1	
203	29%	86%	100%	29%	86%	47%	7%	4.56E+13	155.0	
204	33%	67%	67%	17%	17%	38%	12%	1.04E+14	53.2	
301	50%	80%	80%	20%	60%	36%	2%	5.80E+14	168.9	
302	25%	67%	100%	25%	25%	35%	0%	6.93E+13	246.1	
303	33%	67%	83%	17%	33%	31%	0%	4.84E+14	302.1	
401	33%	75%	100%	8%	58%	29%	0%	6.22E+12	258.1	
402	25%	67%	100%	25%	58%	27%	1%	2.34E+14	1609.1	
403	17%	75%	92%	17%	33%	27%	1%	2.82E+14	150.1	
404	31%	78%	96%	26%	48%	25%	1%	7.23E+13	97.5	
405	17%	58%	83%	17%	25%	25%	6%	8.57E+13	200.9	
406	25%	58%	75%	17%	25%	23%	3%	1.37E+14	520.2	
407	33%	50%	83%	17%	42%	15%	5%	7.92E+13	1371.4	

HUC	Turb-Current	TP - current	Nitrate - current	TSS - current	E. coli - Cur	Poorly drain	Very poorly drain	Manure	Ec Municipal
201	2	7	14	3	6	2	5	13	13
202	3	2	13	7	10	5	2	12	8
203	9	1	1	1	1	3	1	11	10
204	3	7	12	7	14	1	9	6	14
301	1	3	10	6	2	8	4	1	9
302	10	7	1	3	10	12	13	10	6
303	3	7	7	7	8	13	10	2	4
401	3	5	1	14	3	14	3	14	5
402	10	7	1	3	3	10	7	4	1
403	13	5	6	7	8	11	6	3	11
404	8	4	5	2	5	9	8	9	12
405	14	12	7	7	10	4	12	7	7
406	12	12	11	7	10	7	11	5	3
407	3	14	7	7	6	6	14	8	2

