

Appendix H – Water Quality Monitoring Study

**Gile Flowage Storage Project
FERC No. 15055**

Study Plan

Water Quality Monitoring Study

Prepared for



Prepared by



meadhunt.com

April 2021

1. Introduction

Northern States Power Company – Wisconsin (NSPW or Applicant), d/b/a Xcel Energy, is currently seeking to obtain an original license from the Federal Energy Regulatory Commission (FERC or Commission) to operate and maintain the existing Gile Flowage Storage Project (Gile Flowage or Project) under FERC Docket Number P-15055-000. The Project is owned, operated, and maintained by the Applicant. To obtain an original license, the Applicant must submit a Final License Application (FLA) to FERC no later than August 18, 2023. The FLA, in part, must include an evaluation of the existing water quality associated with the Project.

On January 19, 2021, FERC issued Scoping Document 1 and requested that stakeholders provide comments on the Pre-Licensing Application (PAD) and study requests within 60 days. During the 60-day comment period, the Applicant received comments and study requests from several entities. Only the Wisconsin Department of Natural Resources (WDNR) requested that the Applicant complete a water quality monitoring study as part of relicensing.

The WDNR requested that a water quality study be conducted to further understand current water quality conditions of the flowage and riverine resources to ensure state water quality standards are being met. WDNR requested that data be collected or analyzed using the WDNR WISCALM Guidance and Surface Water Grab Sampling Protocols. They requested that a total of 23 water quality parameters be monitored.

The applicant is proposing to conduct a Water Quality Monitoring Study to determine if waters within the proposed Project boundary meet current state water quality standards.

2. Study Plan Elements

2.1 Study Goals and Objectives

The objective of this water quality monitoring study is to evaluate the existing water quality at the Project to determine if the Project meets current state water quality standards.

2.2 Resource Management Goals

The resource management goal is compliance with Wisconsin Administrative Code NR 102 Water Quality Standards for Wisconsin Surface Waters (NR 102).

2.3 Public Interest

WDNR expressed interest in this study.

2.4 Background and Existing Information

One permitted point-source municipal discharge from the City of Montreal sewer treatment plan is located 0.8 miles downstream of the Project dam. Satellite water clarity has been measured annually from 2010 through 2017. Metals were measured in 2010. Water quality parameters were collected in 2012 and 2017-2019. Fish contaminant monitoring was conducted in 2013 (WDNR, 2021).

2.5 Project Nexus

The operations of the dam may affect the water quality of the impoundment and downstream resources.

2.6 Study Area

The study will include water quality monitoring at four locations at the Project, one location downstream of the tailrace, downstream of the mixing zone, one location approximately 250 feet upstream of the Project dam, one location in the deep hole (at the station where citizen lake monitoring takes place), and one location in a riverine area upstream of the main impoundment. The monitoring locations are depicted in Appendix 1.

2.7 Methodology

2.7.1 Water Quality Monitoring

The parameters to be monitored, type of sampling and sampling frequency are detailed in Table 2.7.1-1 below. Each sampling event should occur near the middle of the sampling month with the exception of September, which can be sampled earlier in the month to allow time for the study report to be completed prior to the filing of the Initial Study Report (ISR) with FERC at the end of September 2022.

Data should be collected or analyzed using the WDNR Wisconsin Consolidated Assessment and Listing Methodology (WisCALM Guidance) located online at the following web address: <https://dnr.wisconsin.gov/topic/SurfaceWater/WisCALM.html>. A list of standard operating procedures can be found in the Appendix of the WisCALM Guidance. Nutrient samples should be collected using WDNR's Grab Sampling Protocol, which is located in Appendix 2.

Table 2.7.1-1 Water Quality Monitoring Study

Parameter	Samples	Type of Sampling	Sampling Frequency			
			May	July	Aug.	Sept.
Ammonia	1 total	Lab		X		
Bacteria	3 total	Lab		X	X	X
Chloride	1 total	Lab	X			
Chlorophyll-a	3 total	Lab		X	X	X
Conductivity	4 total	Field Profile	X	X	X	X
Color	1 total	Lab		X		
DO	4 total	Field Profile	X	X	X	X
Dissolved Phosphorus	3 total	Lab		X	X	X
Iron	3 total	Lab		X	X	X
Manganese	3 total	Lab		X	X	X
Sulfide	3 total	Lab		X	X	X
Nitrate (plus nitrite)	1 total	Lab		X		
pH	4 total	Field Profile	X	X	X	X
Secchi depth	4 total	Field	X	X	X	X

Parameter	Samples	Type of Sampling	Sampling Frequency			
			May	July	Aug.	Sept.
Sulfate	1 total	Lab	X			
Total Mercury	1 total	Lab	X			
Temperature	4 total	Field Profile	X	X	X	X
Total Nitrogen	1 total	Field Fixed		X		
Total Phosphorus	4 total	Field Fixed	X	X	X	X
Total Suspended Solids	3 total	Lab	X	X	X	X

For the parameters that are labeled as field profiles, for the three sampling locations within the Project reservoir, a hydrographic profile should be conducted with samples beginning at the water surface and sampled at 1-meter intervals until the reservoir bed is reached. These profiles will help evaluate whether the reservoir is stratified. For the one sampling location downstream of the tailrace, only a surface grab sample is required since the river downstream of the tailrace should be fully mixed and stratification is unlikely.

2.7.2 Personnel Qualifications

All surveys will be conducted by individuals with prior water quality monitoring training and experience.

2.8 Consistency with Generally Accepted Scientific Practice

This Water Quality Monitoring Study follows generally accepted scientific practice regarding field data collection and reporting. Similar protocols have been used in other relicensing studies.

2.9 Project Schedule and Deliverables

Results of this study will be summarized in a final study report. The report will include the following elements:

- Project Information and Background
- Study Area
- Methodology
- Study Results
- Analysis and Discussion
- Agency Correspondence and/or Consultation
- Literature Cited

NSPW anticipates that field work will be completed by early September 2022. The study report will be included in the ISR when it is filed with FERC, no later than September 28, 2022.

2.10 Level of Effort and/or Cost

NSPW estimates that this study will cost approximately \$30,000 to complete.

2.11 Discussion of Alternative Approaches

NSPW has generally incorporated WDNRs request for water quality monitoring. NSPW has provided reasoning in Section 3.0 of the Proposed Study Plan as to why the WDNR request to monitor three parameters, methyl mercury, cyanobacteria, and sediment accumulation were not included in the parameters to be monitored in the Study. The proposed methods for this study are consistent with accepted professional practices. The overall approach has been used in other relicensing proceedings and is consistent with generally accepted methods used by federal and state agencies. In addition, the proposed methods for this study are consistent with FERC's study requirements under the ILP. No alternative approaches to this study are warranted.

3. References

Northern States Power Company – Wisconsin, dba Xcel Energy. 2020. Pre-Application Document-Gile Flowage Storage Reservoir Project. Prepared by Mead & Hunt. October 27, 2020.

Wisconsin Department of Natural Resources. 2021. American Whitewater. 2021. Comments on Notice of Intent, Scoping Document 1, Preliminary Application Document, and Studies Request for the Gile Flowage Storage Reservoir Project (P-15055-000) Licensing. March 5, 2021.

Wisconsin Department of Natural Resources. 2015. Nutrient Chemistry Grab Sampling (V3.3). WDNR - PUB-WY-019-2015. February 26, 2015.

Wisconsin Department of Natural Resources. 2022. Wisconsin Consolidated Assessment and Listing Methodology (WisCALM) 2022. Guidance # 3200-2021-01. January 14, 2021.

Appendix 1 – Water Quality Monitoring Study Area

Water Quality Study

Monitoring Locations

250 Ft downstream of tailrace 46.426377N, -90.227308W

250 Feet Upstream of Dam 46.424758N, -90.226237W

Deep Hole 46.399070N, -90.224950W

Upstream Monitoring Location 46.367644N, -90.244514W

C



1 mi

Appendix 2 – WDNR Grab Sampling Protocol

A. Scope

This method pertains to the collection of surface water chemistry grabs for the determination of the concentration of nutrients (forms of nitrogen and phosphorus). While nutrients are generally grouped as nitrogen or phosphorus for field sampling protocols it is more important to consider if the sample should be preserved or non-preserved. This SOP will also cover the rare circumstance where field staff may be asked to filter samples in the field (Section F). However, for nearly all DNR sampling protocols samples that need to be filtered before analysis will be filtered at the Wisconsin State Lab of Hygiene. There is a video available on sample preservation for DNR monitoring:

http://intranet.dnr.state.wi.us/int/es/science/lv/videos/Sample_Preservation.wmv

1. Preserved Samples

Preserved samples have a known quantity of acid added to the sample immediately after collection. Holding time for samples between sample collection and analysis is **28 days**. Acid preservative for samples is provided in vials by the Wisconsin State Lab of Hygiene (WSLH). Constituents that are preserved before analysis include:

- a. Total Phosphorus
- b. Total Dissolved Phosphorus
- c. Total Nitrogen
- d. Total Dissolved Nitrogen
- e. Kjeldhal Nitrogen (organic nitrogen plus ammonia)
- f. Nitrate + Nitrite (most common together, can be ordered individual)
- g. Ammonia (NH₃ and NH₄)

2. Non-Preserved Samples

Non-Preserved samples do not have acid added to the sample which dramatically reduces the holding time. Non-preserved samples have a holding time of only **48 hours**. Constituents that are not preserved before analysis include:

- a. Total Dissolved Phosphorus
- b. Dissolved Ortho-Phosphorus

B. Summary of method:

Prior to sample collection all sampling equipment and sample containers must be thoroughly cleaned. Sample bottles for nutrients from the WSLH will be pre-cleaned and ready for use. In general, the possibility for contamination for non-filtered and lab filtered nutrients are low if simple sampling techniques are used. However, contamination is a major concern with field filtered nutrient samples due to the extra equipment used that has the chance to contaminate the sample. Generally, DNR field staff will be sampling for non-filtered or lab filtered nutrients for baseline monitoring programs.

In stream systems the sampler should wade into the water moving upstream and sample near the thalweg making sure that the area is free of recently disturbed sediments. Samples should be collected 3-6 inches below the surface of the water to avoid any surface scums or particles. Samples that require a preservative must be preserved with 1mL H₂SO₄ per 250 mL sample bottle and stored on ice before analysis. Samples that are not preserved have a **48 hour** holding time. Preparations must be made to send these samples to the WSLH before the holding time expires.

- i. **Exception:** Samples for Total Dissolved Phosphorus require a different preservative than the other preserved nutrient samples. Total Dissolved Phosphorus requires a preservative of 0.48 mL H₂SO₄ 12.5% and is collected in a 60 mL sample bottle and still has a holding time of **28 days**. Contact the WSLH for needed sampling equipment for Total Dissolved Phosphorus

1. Standard QA/QC practices

In general, one field blank and one duplicate sample for nutrients is recommended for every ten nutrient samples (i.e. 10% rule). For a field blank de-ionized (DI) water is transported into the field in a separate container. While in the field, a crew member fills a nutrient bottle with DI water and transports it on ice with the other samples. A field duplicate is taken in the field in the same location as the single sample. For each QA/QC sample the appropriate preservative should be added to the sample in the same many as any other grab sample. In general, a field blank is used to determine if there is any cross contamination or interference in the sample collection. A duplicate is used to determine how interferences in laboratory analysis or inherent variability in the concentration of the waterbody.

C. Safety:

Safety precautions of a general nature should be recognized. Life jackets should be worn if sampling from a boat or in areas of swift current. Collecting samples in cold weather, especially around cold waterbodies, carries the risk of hypothermia, and collecting samples in extremely hot and humid weather carries the risk of dehydration and heat stroke. Preserving nutrient samples requires the use of small amounts of acid. Caution should be used to avoid contact with skin or eyes when acidifying the sample. A first aid kit should always be carried with the field crew for general safety considerations.

D. Equipment:

- 250 mL polyethylene bottle(s) (Preserved samples)
- 60 mL polyethylene bottle (Non-Preserved samples and Total Dissolved Phosphorus)
- 1.0 mL vial H₂SO₄ (Preserved samples)
- 0.48 mL vial H₂SO₄ (Total Dissolved Phosphorus only)
- Waterproof pen or marker
- Lab slip
- Ice
- Cooler
- Instruments to measure flow, temperature, dissolved oxygen, pH and specific conductivity

E. General Collection procedures

1. Label the bottle with the appropriate field number and sampling location and, if appropriate, check the box on the label indicating that H₂SO₄ has been added as a preservative. Circle “Nutrients” indicating the bottle has been sampled for nutrients.
2. Locate a sampling location that is at least 10 to 20 feet upstream from a bridge crossing, in the middle of the stream channel, and is at least knee deep. In cases where stream depth is shallow it is more important to collect the sample in the area of strongest flow (thalweg) than the deepest location. Walk upstream to the sampling location. This ensures the sample is not contaminated by sediment that has been dislodged from the substrate.
 - a. If sampling using collection equipment (i.e. from a bridge) be sure to triple rinse equipment with DI and stream water. After first rinse, be sure to manually inspect equipment and wipe of any adhered dirt or debris.
3. Facing upstream, rinse a polyethylene nutrients bottle three times with the water to be sampled. Rinse with water 3 to 6 inches below the water surface.
4. Avoid touching the inside of the bottle or inside of the cap.
5. Fill the bottle completely, 3 to 6 inches below the surface.

F. Collection Procedures Preserved Nutrients:

1. See Section E 1-5 for General Collection Procedures
2. Use a **250 mL** polyethylene nutrients bottle for sample collection
3. Add **one 1.0 mL vial of H₂SO₄**, cap, and invert the bottle several times.

- a. For Total Dissolved Phosphorus use a 60 mL sample bottle add 0.48 mL 12.5% vial of H_2SO_4
4. Holding time before analysis is **28 days** if sample is stored refrigerated.

G. Collection Procedures Non-Preserved Nutrients:

- a. In general, DNR staff will collect samples for Non-Preserved nutrients that will be filtered in the lab by the WSLH. This greatly reduces the chances of contamination but substantially decreases the holding time of the sample.
- b. See Section E 1-5 for General Collection Procedures.
- c. Use a **60 mL** polyethylene nutrients bottle for sample collection
- d. Note, holding time for Non-Preserved nutrients is **48 hours**, much shorter than preserved samples.

3) Sampling at Depth

When sampling at depth is performed it is very easy to compromise the cleanliness of a sample as more hardware is involved in obtaining a sample (lake, nonwadeable river, etc.). One way to do this is to rigorously clean any equipment (i.e. Kemmerer sampler) used to obtain the sample. Secondly, be sure to thoroughly triple rinse collection equipment with ambient water.

E. Documentation:

Standard documentation procedures should be followed for the collection of samples for nutrient analysis. However, it must be very clear whether the samples were acid preserved in the field or not. Be certain samples are received by the lab well in advance of the holding time as multiple days will be required due to shipping and time needed for organization and sample analysis at the WSLH. As of 2017 the WSLH requires that yellow batch label on each vial of preservative is attached to the lab slip. This ensures that expired acid is not being used to preserve samples.

F. Field Filtered nutrients

For certain projects it may be required for DNR staff to filter nutrient samples in the field using field filtering equipment. This type of sampling is inherently more susceptible to cross contamination and approved Quality Assurance Project Plans (QAPPs) must be approved before the project begins. It may be required for employees to pass a certification of competence test for field filtered nutrients. In general, this would require a crew member processing two field blanks on site that must come

back from the lab as non-detect. In this case the crew member has shown the ability to perform the task.

I. Equipment:

- 60 mL polyethylene bottle
- Transfer bottle
- Waterproof pen or marker
- 50 mL plastic syringe, peristaltic pump or other filter apparatus
- Filter housing
- Membrane filter 0.45 μm pore size
- Lab slip
- Ice
- Cooler
- Instruments to measure flow and temperature (optional)

II. Field Filtering QA/QC

Cross contamination is much more likely for field filtered nutrients and as such a more extensive QA/QC plan is required. All duplicates and field blanks should be taken in accordance with standard nutrient QA/QC collection procedures above. In addition, for every 10 samples taken one sample blank should be taken. For filtered nutrients a sample blank is taken by filtering DI water in the same manner as the original sample using the same cleaned filtering equipment.

III. Collection Procedures for Field Filtered Nutrients

- a. See Section E 1-4 for General Collection Procedures.
- b. Use a 60 mL polyethylene nutrients bottle for sample collection
- c. Remove the plunger from the 50 mL plastic syringe. Attach a filter by pushing or screwing it onto the syringe tip. Note that it will only fit one correct way.
- d. Pour non-preserved sample from the transfer bottle into the syringe and fill to the top of the barrel.
- e. It is important to filter a known amount so it can be properly acidified, 50 ml is recommended.

- f. Re-insert the plunger, place the filter over a 60-ml polyethylene bottle opening, and slowly push the plunger down until you reach the 50ml mark.
- g. Use this excess filtrate to rinse the 60-ml bottle, and discard. The filtered nutrients bottle may only be rinsed with pre-filtered water, never with ambient stream water.
- h. Place the plunger over the bottle opening and push the plunger down to filter the remaining sample (50ml). It may seem difficult, but most samples will only require 10-30 seconds to filter. The filter may rupture if too much pressure is applied. Inspect the filter and if it is ruptured discard the filter and syringe and start over. Ideally a second filtered sample bottle would be used to collect the new sample. However, if there are not extra bottles handy be sure to thoroughly, triple rinse the container with Filtered stream water.
 - i. This is very time consuming, it is advised that an extra few seconds of patience filtering the sample can avoid a rupture filter and save these steps.
- i. Add **one 1.0 mL vial of H₂SO₄**, cap, and invert the bottle several times.
- j. Check the box on the bottle label that indicates the sample has been preserved and label with the appropriate field number.
- k. Write on the lab slip that the 60 mL bottle has been field filtered and preserved with H₂SO₄.
- l. Store bottles on ice during transport to a refrigerator or the WSLH.

G. Updates and Tracking

Version Number	Date	Sections	Name	Approval
3.2	05/15/2014	All	Shupryt/Turcotte/ Arneson/LTT Workgroup	Shupryt 5/26/2015
3.3	04/02/2019	All, minor editorial changes	Shupryt	Shupryt 04/02/2019

This document is available electronically on the WDNR's website. [\[CLICK HERE\]](#)

The Wisconsin Department of Natural Resources provides equal opportunity in its employment, programs, services, and functions under an Affirmative Action Plan.

If you have any questions, please write to Equal Opportunity Office, Department of the Interior, Washington, D.C. 20240. This publication is available in alternate format (large print, Braille, audio tape, etc.) upon request. Please call 608-267-7694 for more information.

Wisconsin Department of Natural Resources

101 S. Webster Street • PO Box 7921 • Madison, Wisconsin 53707-7921
608-266-2621



WDNR-PUB-WY-019-2015

Appendix I – Whitewater Recreation Flow Study

**Gile Flowage Storage Project
FERC No. 15055**

Study Plan

Whitewater Recreation Flow Study

Prepared for



Prepared by



meadhunt.com

April 2021

1. Introduction

Northern States Power Company – Wisconsin (NSPW or Applicant), d/b/a Xcel Energy, is currently seeking to obtain an original license from the Federal Energy Regulatory Commission (FERC or Commission) to operate and maintain the existing Gile Flowage Storage Project (Gile Flowage or Project). The Project is owned, operated, and maintained by the Applicant.

On January 19, 2021, FERC issued Scoping Document 1 and requested that stakeholders provide comments on the Pre-Licensing Application (PAD) and study requests within 60 days. During the 60-day comment period, the Applicant received comments and study requests from several entities. American Whitewater (AW), Friends of the Gile Flowage (FOG), and the National Park Service (NPS) requested the Applicant to complete a whitewater recreation flow study as part of relicensing.

AW requested that a controlled flow study be conducted by evaluating at least three different river flows between 400 cfs and 1,000 cfs on the West Fork of the Montreal River (West Fork) from the Gile dam to the US Highway 2 Bridge.

FOG requested that silent sport recreational issues including whitewater kayaking be one of the recreation activities included in their request for a recreation study.

NPS requested that a recreation flow study be conducted on the West Fork from below the Gile Falls to US Highway 2 to determine which flows are acceptable to boaters.

The Applicant is proposing to conduct a Whitewater Recreation Flow Study to evaluate optimal flows for whitewater recreation downstream of the Gile Flowage on the West Fork.

2. Study Plan Elements

2.1 Study Goals and Objectives

The objective of this Whitewater Recreation Flow Study is to evaluate the effects of incremental flow releases from the Gile Flowage on the availability of whitewater boating opportunities on the West Fork, beginning below the Project dam and extending downstream for approximately 5.7 miles to the Kimball Falls Town Park. The study objectives are as follows:

- Evaluate the incremental flow releases to determine optimal whitewater boating opportunities for different skill sets.
- Based upon updated flow duration curves, determine the number of days per year when river flows equal or exceed optimal whitewater flows and assess the feasibility of potential recreational flow releases.
- Quantify the effect on downstream generation and the impact on water levels at the upstream Gile Flowage for any four-hour period of planned flow releases, adjusted for the month in which it could occur.

- Develop an estimate of potential whitewater boating use if scheduled releases are provided.
- Identify any competing recreational or environmental uses associated with scheduled releases up to four hours in length.
- Verify the difficulty rating for each reach at varying flows as listed on the American Whitewater website.

2.2 Resource Management Goals

Recognize the full potential for meeting present and future public outdoor recreation demands, while maintaining and enhancing a quality environmental setting. FERC guidelines and the Federal Power Act also provide direction to give equal consideration to other non-power resources such as recreation.

2.3 Public Interest

AW, FOG, and NPS expressed interest in this study.

2.4 Background and Existing Information

American Whitewater provided information on recommended flow ranges for the West Fork in their study request. They completed a survey-based flow study (i.e., where users self-report flows and respond to an online survey) in 2007 determining that 400-1,000 cfs was the optimal range (AW, 2021).

2.5 Project Nexus

An analysis of several flows downstream of Gile Flowage dam relative to whitewater boating opportunities will provide baseline information to make decisions on how to balance multiple uses of the river by members of the public.

2.6 Study Area

The study area will include a stretch of the Montreal River known as the Gile Falls to US Highway 2 by AW. A review of property ownership at the US Highway 2 crossing shows that this area is privately owned and public access to the site would be dependent upon landowner permission. Therefore, the study area has been adjusted to extend from the Project dam to Kimball Falls Town Park, where there is public access to the river. This park is located approximately 0.8 miles upstream of US Highway 2.

This river section will be divided into three river reaches for study purposes. Reach 1 will extend approximately 2.0 miles from the Gile Flowage dam to the South Street bridge. Reach 2 will extend approximately 2.6 miles from South Street bridge to the Center Street bridge. Reach 3 will extend approximately 1.1 miles from Center Street bridge to Kimball Falls Town Park. The study area is shown in Appendix 1.

2.7 Methodology

2.7.1 Participants

For the purposes of the Whitewater Recreation Flow Study, NSPW will coordinate with Jake Ring, a local boating enthusiast who routinely boats this reach, to seek approximately 3-5 individuals to participate in a whitewater boating evaluation of three different flow releases. Emphasis will be placed upon finding volunteers who have either boated this stretch before or are found to be experienced whitewater boaters or whitewater paddling instructors.

NSPW will coordinate flow releases and provide pens, clipboards, and the evaluation forms for each boater. It is assumed that existing access and parking associated with the put-in and take-out is adequate to accommodate the study participants.

The study will be conducted in late June after spring runoff has concluded. The Applicant will notify AW and NPS when the event is scheduled and invite them to observe the study.

NSPW is proposing to test up to a maximum of three separate flows with releases between a minimum of 600 cfs and a maximum of 1,000 cfs¹. The actual flows to be released will be determined after consultation with study participants. After any given release, subsequent releases may be adjusted according to boaters' recommendations after evaluating the previous flow.

At the conclusion of the last run, flows will be ramped down in the tailrace over a period of three hours.

2.7.2 Evaluations

After each run, boaters will be asked to fill out the Boater Evaluation Form included in Appendix 2. After all runs have been completed, boaters will be asked to fill out the Summary Boater Evaluation Form included in Appendix 3. The answers obtained from the Summary Boater Evaluation Forms will be used to guide a 15-minute discussion with all boaters regarding the optimum range of flows as well as the lowest and highest flow deemed usable for their watercraft.

2.8 Consistency with Generally Accepted Scientific Practice

This Whitewater Recreation Flow Study follows generally accepted scientific practice. Similar protocols have been used in other relicensing studies.

¹ This flow range was selected based upon existing information provided by the 2007 AW internet flow study. Since the accuracy of the flows provided in an internet flow study can be inaccurate, the flows will begin at 600 cfs instead of the minimum 400 cfs provided because it is believed the 400 cfs flow level is likely the minimum flow to facilitate whitewater boating in this river reach.

2.9 Project Schedule and Deliverables

Results of this study will be summarized in the final study report. The study report will include, at a minimum the following elements:

- Whitewater boating attributes for the range of flows examined. This will include a difficulty rating and length of trip.
- Preferred flow.
- Maximum safe flow.
- The frequency of the availability and expected timing of the identified flows under the current operating regime.
- The feasibility and cost of providing scheduled releases by month, for up to four hours in length, with an emphasis on weekends (during April to November period).
- An estimate of potential whitewater boating use if scheduled releases (up to four hours in duration) are provided at the optimal flow.
- A discussion of the natural resource impacts associated with controlled releases, and options to minimize or avoid adverse impacts to the aquatic community.

NSPW anticipates that the field work will be completed by the end of June 2022. The study report will be included in the Initial Study Report.

2.10 Level of Effort and/or Cost

NSPW estimates that this study will cost approximately \$25,000 to complete.

2.11 Discussion of Alternative Approaches

NSPW has generally incorporated AW and NPS comments on their requests for aquatic and terrestrial species and aquatic plant surveys. NSPW has provided reasoning in Section 3.0 of the Proposed Study Plan as to why the Applicant decided to bypass the NPS's recommended Phases 1 and 2 and instead conducted the Phase 3 controlled flow study. The proposed methods for this study are consistent with accepted professional practices. The overall approach has been used in other relicensing proceedings and is consistent with generally accepted methods used by federal and state agencies. In addition, the proposed methods for this study are consistent with FERC's study requirements under the ILP. No alternative approaches to this study are warranted.

3. References

Northern States Power Company – Wisconsin, dba Xcel Energy. 2020. Pre-Application Document-Gile Flowage Storage Reservoir Project. Prepared by Mead & Hunt. October 27, 2020.

American Whitewater. 2021. Comments of American Whitewater on the Pre-Application Document and Study Request. March 17, 2021.


APPENDIX 1

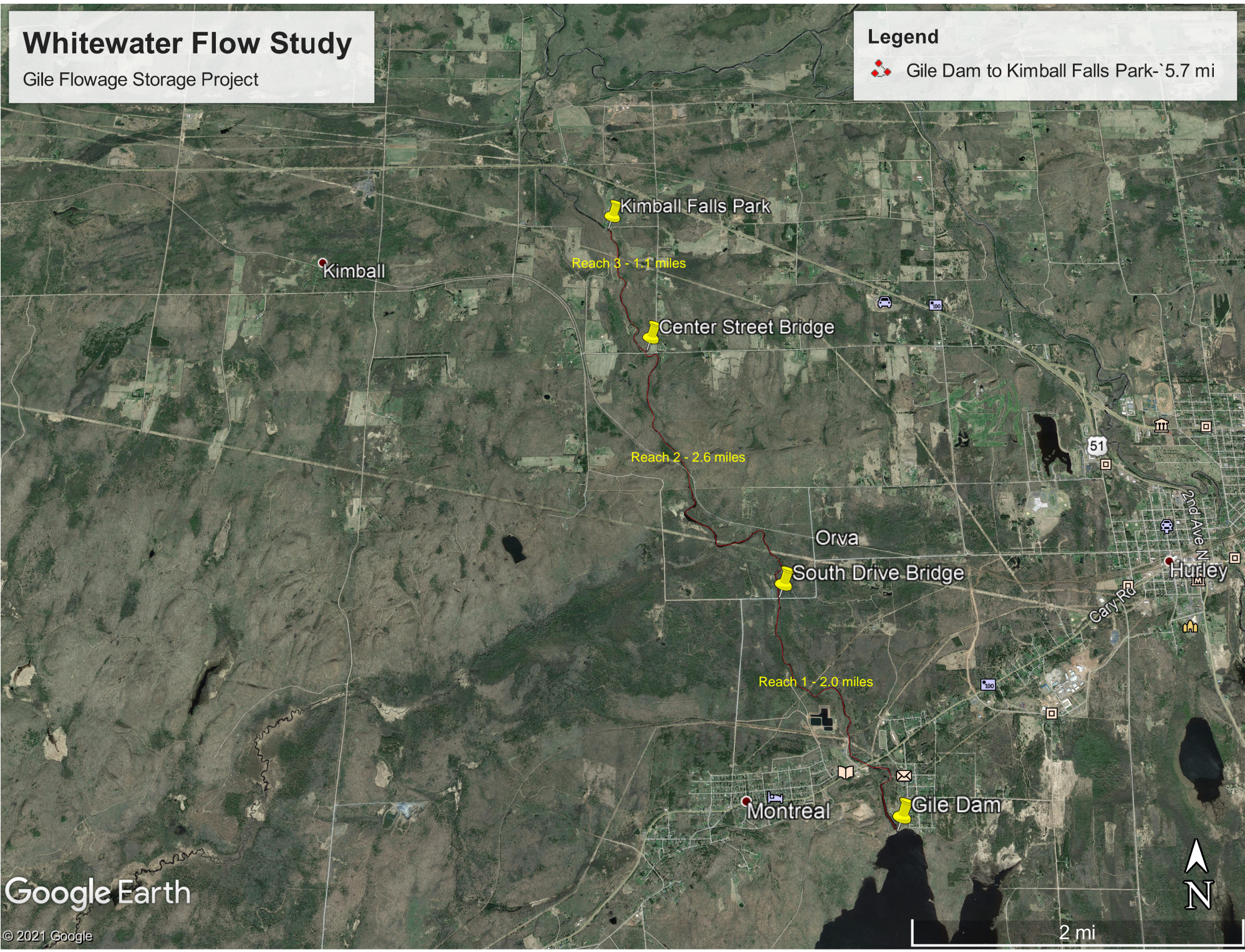
Study Area

Whitewater Flow Study

Gile Flowage Storage Project

Legend

 Gile Dam to Kimball Falls Park - 5.7 mi



Google Earth

© 2021 Google

APPENDIX 2

Boater Evaluation Form

Boater Evaluation Form

Gile Dam – Kimball Falls

West Fork of Montreal River

(To Be Completed After Each Run)

Boater Information: (boater information other than name only needs to be completed once)

Name:	Email Address:	Zip Code:
Skill Level (check one): <input type="checkbox"/> -Advanced <input type="checkbox"/> -Expert <input type="checkbox"/> -Elite		
How many years have you boated at your current skill level?		_____ years
In the past three years, how many days a month do you boat?		_____ days
How many times have you boated this run before today?		_____ times
If you boated this run before: What were the flows? _____ cfs		
What type of watercraft did you use? _____		
How far is this river stretch from you home?		_____ miles

Timing:

Date of the Run _____

What was the flow during the run? _____ cfs

Watercraft:

What type of watercraft did you use for this run? (check one)

-Hardshell kayak -Inflatable kayak -Canoe -Other

Locations and Times:

Put-in Location: Gile Dam Time: _____

Take-out Location: Kimball Falls Park Time: _____

Difficulty:

How would you rate the difficulty (Class I, Class II, etc.) of the reach?

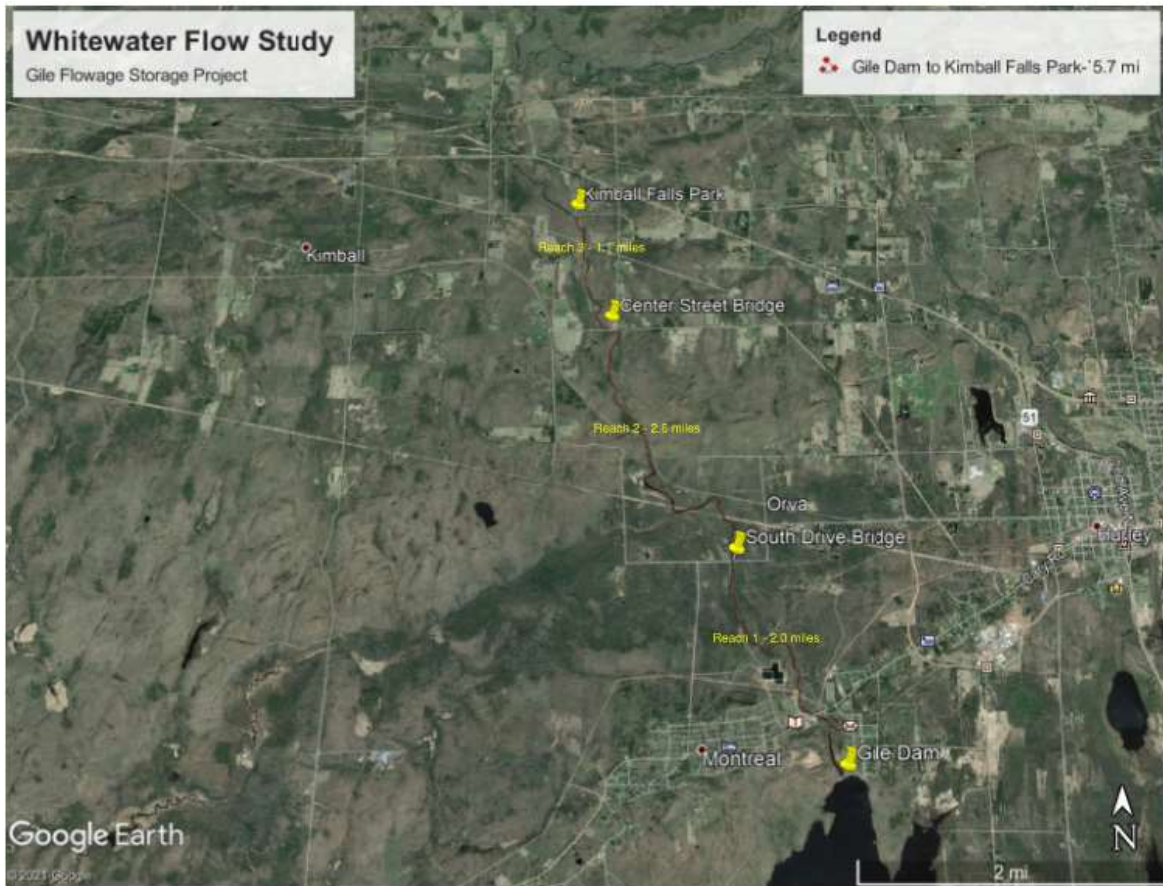
(please see next page)

Portages:

If you used a portage as indicated in the question above, please rate the difficulty at this flow level.

Portage Location (name of site)	Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
	1	2	3	4
	1	2	3	4
	1	2	3	4
	1	2	3	4

Thank You for your Time and Consideration



APPENDIX 3

Summary Boater Evaluation Form

Summary Boater Evaluation Form

Gile Dam-Kimball Falls

(To Be Completed After All Runs)

Boater Information:

Name:	Email Address:	Zip Code:
Skill Level (check one): <input type="checkbox"/> -Advanced <input type="checkbox"/> -Expert <input type="checkbox"/> -Elite		

Flow Levels:

Based upon all of your boating trips at various flow levels, please answer the following:

What is the optimal range that provides the best whitewater boating for this run? _____ cfs

What do you feel the highest safe flow is for your craft and skill level? ____ cfs

For you, what is the optimum flow for this run? _____ cfs

What is the best or optimal flow for a "standard" trip? _____ cfs

What is the best or optimal flow for a "high challenge" trip? _____ cfs

If one flow for boating was released, what flow would you prefer? _____ cfs

Run Specifics:

Please respond to each of the following statements about the characteristics at this flow level (please circle one opinion).

Statement	Strongly Disagree	Disagree	No Opinion	Agree	Strongly Agree
This run is a good length.	1	2	3	4	5
The portages (if any) on this run are not a problem.	1	2	3	4	5

Use of the Run:

Are you likely to return for future boating if the optimum flow would be provided? (check one)

-Definitely No -Possibly -Probably -Definitely Yes

What months would you return to boat? (check one)

-Apr -May -Jun -Jul -Aug -Sep -Oct -Nov

How would you like to receive flow information? (check one)

-Telephone Number with Recording -Website Information -Email Notification

Do you believe any of the flows provided today would be suitable for beginning boaters? (check one)

-Definitely No -Possibly -Probably -Definitely Yes

If so, Which flow Level(s)? _____

Do you believe any of the flows provided today would be suitable for play boating? (check one)

-Definitely No -Possibly -Probably -Definitely Yes

If so, Which flow Level(s)? _____

Thank You for your Time and Consideration

Appendix J – Wood Turtle Study

**Gile Flowage Storage Project
FERC No. 15055**

Study Plan

Wood Turtle Study

Prepared for



Prepared by



meadhunt.com

April 2021

1. Introduction

Northern States Power Company – Wisconsin (NSPW or Applicant), d/b/a Xcel Energy, is currently seeking to obtain an original license from the Federal Energy Regulatory Commission (FERC or Commission) to operate and maintain the existing Gile Flowage Storage Project (Gile Flowage or Project) under FERC Docket Number P-15055-000. The Project is owned, operated, and maintained by the Applicant.

On January 19, 2021, FERC issued Scoping Document 1 and requested that stakeholders provide comments on the Pre-Licensing Application (PAD) and study requests within 60 days. During the 60-day comment period, the Applicant received comments and study requests from several entities. Only the Wisconsin Department of Natural Resources (WDNR) requested that the Applicant complete a wood turtle study as part of relicensing.

The WDNR requested that a wood turtle study be conducted to better understand the abundance and distribution of the species. Through previous survey efforts, the species is known to occur within the Montreal River, however, it is unknown whether surveys for this species have occurred within the Gile Flowage. The two main objectives of the study are to determine if wood turtles are present within the Project boundaries of the flowage and to determine whether any wood turtle nest sites occur within the Project boundary.

The applicant is proposing to conduct a Wood Turtle Study to determine if wood turtles, nesting habitat, or evidence of wood turtle nesting are present in the specific areas identified by WDNR as having suitable habitat for the species in Endangered Resources Review (ERR) Log # 19-734.

2. Study Plan Elements

2.1 Study Goals and Objectives

The objective of this Wood Turtle Study is to determine if there are wood turtles, nesting habitat, or evidence of wood turtle nesting present in the three specific areas previously identified by WDNR as having suitable habitat for wood turtles in ERR Log # 19-734.

2.2 Resource Management Goals

The resource management goal is compliance with Wisconsin Endangered Species Act of 1972 and the federal Endangered Species Act of 1973.

2.3 Public Interest

WDNR expressed interest in this study.

2.4 Background and Existing Information

WDNR indicated in their study request that through previous survey efforts, this species is known to occur within the Montreal River, however it is unknown whether surveys for, or casual observations of, this species have occurred within the Gile Flowage.

The WDNR provided ER Review Log # 19-734 (ER Review) of the Gile Project vicinity to NSPW on February 2, 2021. The ER Review ERR Log # 19-734 indicated that there was suitable habitat for state-threatened wood turtles in the Project vicinity within three specific areas and includes uplands and wetlands within 300 feet of the stream.

2.5 Project Nexus

The operations of the dam may affect nesting or overwintering wood turtles in areas with suitable habitat. Identifying whether wood turtles are present within the Project boundary will help determine whether any mitigation measures are necessary as part of licensing.

2.6 Study Area

The study will include the three specific area identified as having suitable wood turtle habitat in ER Review Log # 19-734. The specific locations are shown in Appendix 1 and have been filed as privileged information to avoid revealing specific endangered resources location information.

2.7 Methodology

2.7.1 Presence/Absence Surveys

Presence /absence surveys for wood turtles in the specific areas identified in ER Review Log # 19-734 and shown in Appendix 1 will be conducted in the spring of 2022. Surveys can begin after ice-out on sunny days when the air temperature is 50-80 degrees Fahrenheit. This is typically between April and early June.

The survey consists of visual searches within approximately 50 feet of the river's edge, where wood turtles can be found basking on days that meet the weather criteria. Surveys should be conducted 2 days (preferably non-consecutive) per week for a period of 4 weeks and should focus on free-flowing stretches.

2.7.2 Nesting Habitat Surveys

When conducting presence/absence surveys, the surveyor will also assess nest site suitability within the study area. Suitable nesting habitat includes sand or gravel substrate that is either unvegetated or sparsely vegetated, receives sun exposure for most of the day during late spring to early summer and is within approximately 200 feet of a suitable stream. This can include gravel parking areas, roads, or shoulders of paved roads (WDNR, 2021). GIS locations of all suitable nesting sites will be collected in order to provide a map of suitable nesting sites within the study area for the final study report. Any wood turtle nesting activity identified during the presence/absence surveys will be noted.

2.7.3 Personnel Qualifications

All surveys will be conducted by individuals qualified to identify wood turtles and wood turtle nesting habitat.

2.8 Consistency with Generally Accepted Scientific Practice

This Wood Turtle Study follows generally accepted scientific practice regarding field data collection and reporting.

2.9 Project Schedule and Deliverables

Results of this study will be summarized in a final study report. The report will include the following elements:

- Project Information and Background
- Study Area
- Methodology
- Study Results
- Mapping
- Analysis and Discussion
- Agency Correspondence and/or Consultation
- Literature Cited

NSPW anticipates that field work will be completed by early summer 2022. The study report will be included in the ISR when it is filed with FERC, no later than September 28, 2022.

2.10 Level of Effort and/or Cost

NSPW estimates that this study will cost approximately \$40,000 to complete.

2.11 Discussion of Alternative Approaches

NSPW has generally incorporated WDNR's request to conduct presence absence surveys and nesting habitat assessments. NSPW has provided reasoning in Section 3.0 of the Proposed Study Plan as to why the WDNR's requested monitoring locations and nesting site survey frequencies were adjusted in this study plan. The proposed methods for this study are consistent with accepted professional practices. In addition, the proposed methods for this study are consistent with FERC's study requirements under the ILP. No alternative approaches to this study are warranted.

3. References

Northern States Power Company – Wisconsin, dba Xcel Energy. 2020. Pre-Application Document-Gile Flowage Storage Reservoir Project. Prepared by Mead & Hunt. October 27, 2020.

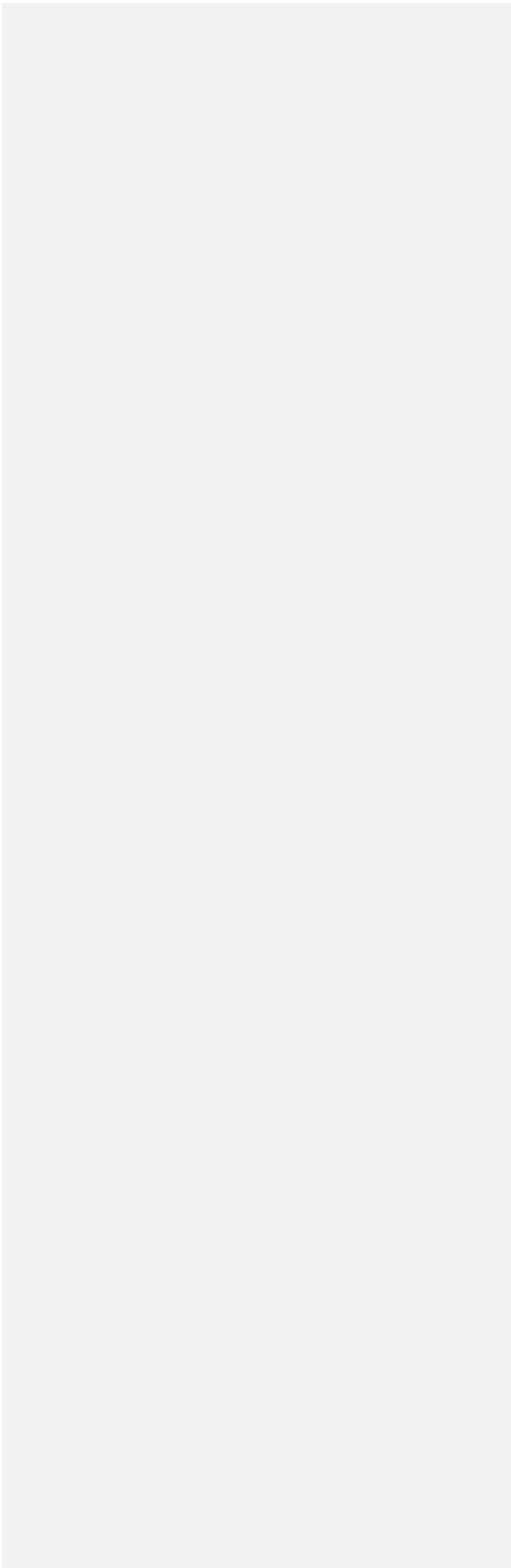
Wisconsin Department of Natural Resources. 2021. Comments on Notice of Intent, Scoping Document 1, Preliminary Application Document, and Studies Request for the Gile Flowage Storage Reservoir Project (P-15055-000) Licensing. March 5, 2021.

Wisconsin Department of Natural Resources. 2021. Endangered Resources Review (ERR Log # 19-734) Proposed Gile Flowage Licensing, Iron County, WI. February 2, 2021.

Appendix 1 – Wood Turtle Survey Area

This Appendix has been filed separately with FERC as privileged information.

Appendix K – WDNR Fish Data



County Name	Waterbody Name	Local Waterbody		Year	Species	Strain Stock	Age Class	Number Fish	Avg Fish	Source Type	Trs
		Wbic	Name					Stocked	Length In		
IRON	GILE FLOWAGE	2942300	Giles Flowage	2016	BLUEGILL	UNSPECIFIED	YEARLING	4968	5	PRIVATE HATCHE	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	2017	BLUEGILL	UNSPECIFIED	YEARLING	5574	5	PRIVATE HATCHE	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1973	MUSKELLUNGE	UNSPECIFIED	FINGERLING	800	13	DNR HATCHERY	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1986	MUSKELLUNGE	UNSPECIFIED	FINGERLING	1210	11	DNR HATCHERY	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1987	MUSKELLUNGE	UNSPECIFIED	FINGERLING	5250	9	DNR HATCHERY	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1988	MUSKELLUNGE	UNSPECIFIED	FINGERLING	4500	10.33	DNR HATCHERY	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1989	MUSKELLUNGE	UNSPECIFIED	FINGERLING	1176	13	DNR HATCHERY	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1990	MUSKELLUNGE	UNSPECIFIED	FINGERLING	1250	13	DNR HATCHERY	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1991	MUSKELLUNGE	UNSPECIFIED	FINGERLING	3500	11.67	DNR HATCHERY	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1992	MUSKELLUNGE	UNSPECIFIED	FINGERLING	2500	10.33	DNR HATCHERY	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1993	MUSKELLUNGE	UNSPECIFIED	FINGERLING	3300	11.97	DNR HATCHERY	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1986	SMALLMOUTH B	UNSPECIFIED	FINGERLING	10000	3	DNR HATCHERY	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1972	MUSKELLUNGE	UNSPECIFIED	FINGERLING	3122	13	DNR COOP POND	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1974	MUSKELLUNGE	UNSPECIFIED	FINGERLING	2500	7	DNR COOP POND	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1975	MUSKELLUNGE	UNSPECIFIED	FINGERLING	677	11	DNR COOP POND	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1976	MUSKELLUNGE	UNSPECIFIED	FINGERLING	2500	8	DNR COOP POND	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1977	MUSKELLUNGE	UNSPECIFIED	FINGERLING	2500	7	DNR COOP POND	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1978	MUSKELLUNGE	UNSPECIFIED	FINGERLING	1700	12	DNR COOP POND	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1979	MUSKELLUNGE	UNSPECIFIED	FINGERLING	3000	8	DNR COOP POND	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1980	MUSKELLUNGE	UNSPECIFIED	FINGERLING	2500	9	DNR COOP POND	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1981	MUSKELLUNGE	UNSPECIFIED	FINGERLING	500	11	DNR COOP POND	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1982	MUSKELLUNGE	UNSPECIFIED	FINGERLING	1250	11	DNR COOP POND	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1983	MUSKELLUNGE	UNSPECIFIED	FINGERLING	1587	10.33	DNR COOP POND	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1984	MUSKELLUNGE	UNSPECIFIED	FINGERLING	2500	7	DNR COOP POND	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1985	MUSKELLUNGE	UNSPECIFIED	FINGERLING	3500	10	DNR COOP POND	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1986	MUSKELLUNGE	UNSPECIFIED	FINGERLING	2290	11	DNR COOP POND	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1985	SMALLMOUTH B	UNSPECIFIED	FINGERLING	34545	3	DNR COOP POND	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1987	SMALLMOUTH B	UNSPECIFIED	FINGERLING	61248	1	PRIVATE HATCHE	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	1998	MUSKELLUNGE	UNSPECIFIED	LARGE FINGERLING	2486	12	DNR HATCHERY	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	2001	MUSKELLUNGE	UNSPECIFIED	LARGE FINGERLING	884	10.6	DNR HATCHERY	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	2002	MUSKELLUNGE	UNSPECIFIED	LARGE FINGERLING	2500	10.85	DNR HATCHERY	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	2004	MUSKELLUNGE	UNSPECIFIED	LARGE FINGERLING	2836	11.8	DNR HATCHERY	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	2010	MUSKELLUNGE	UPPER WISCON	LARGE FINGERLING	1267	13.15	DNR HATCHERY	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	2012	MUSKELLUNGE	UPPER CHIPPEV	LARGE FINGERLING	1692	13.3	DNR HATCHERY	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	2017	MUSKELLUNGE	UPPER CHIPPEV	LARGE FINGERLING	551	11.2	DNR HATCHERY	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	2005	BLUEGILL	UNSPECIFIED	ADULT (FIELD TRANSFI	24451	-	FIELD TRANSFER	46N-2E-34
IRON	GILE FLOWAGE	2942300	Giles Flowage	2005	PUMPKINSEED	UNSPECIFIED	ADULT (FIELD TRANSFI	9838	4.4	FIELD TRANSFER	46N-2E-34

OPENWATER AND ICE CREEL**2003-2004****CREEL SURVEY SYNOPSIS**

MWBC: 2942300

LAKE: Gile Flowage

COUNTY: Iron

ACRES: 3384

PROJECTED PRESSURE: 35720 HOURS

HOURS/ACRE: 10.6

Species	Directed Effort (Hours)	(%)	Catch	Specific Catch Rate (Fish/Hour)	Harvest	Specific Harvest Rate (Fish/Hour)	Mean Length (Inches)
Walleye	17,801	37.3%	4,161	0.23	2,256	0.13	14.0
Northern Pike	5,404	11.3%	2,101	0.19	542	0.09	18.6
Muskellunge	3,915	8.2%	81	0.01	0	0.00	
Smallmouth Bass	17,548	36.8%	22,643	1.13	173	0.01	15.5
Largemouth Bass	119	0.2%	225	0.82	0	0.00	
Bluegill	974	2.0%	327	0.31	190	0.19	7.6
Pumpkinseed	242	0.5%	93	0.21	47	0.13	6.8
Black Crappie	634	1.3%	150	0.13	92	0.13	12.5
Yellow Perch	863	1.8%	110	0.07	37	0.03	9.9
Rock Bass	223	0.5%	1,723	0.74	121	0.23	9.3
Green Sunfish	*	0	104	*	0	*	

Table 2

Estimated Effort Detailed Report

Gile Flowage
03-MAY-2003 TO 01-MAR-2004

Site	Season	Month	Day Type	Days Sampled	Total Counts	Boat/Ice Shanty Angler Hours	St Dev Boat/Ice Shant Angler Hours	Shore/Open-Ice Angler Hours	St Dev Shore/Open-Ice Angler Hours	Total Angler Hours	St Dev Total Angler Hours	
1	Summer	May	Weekday	11	22	1,994.57	457.78	816.57	252.14	2,811.14	522.62	
			Weekend	10	20	4,293.50	267.57	984.25	193.44	5,277.75	330.17	
			Total	21	42	6,288.07	530.24	1,800.82	317.79	8,088.89	618.18	
		June	Weekday	12	24	5,124.00	593.86	994.00	186.48	6,118.00	622.45	
			Weekend	9	18	4,680.00	550.03	664.00	181.90	5,344.00	579.32	
			Total	21	42	9,804.00	809.44	1,658.00	260.50	11,462.00	850.33	
		July	Weekday	14	27	2,954.29	477.09	653.71	186.81	3,608.00	512.36	
			Weekend	9	18	3,696.00	278.97	488.00	127.25	4,184.00	306.62	
			Total	23	45	6,650.29	552.67	1,141.71	226.03	7,792.00	597.10	
		August	Weekday	12	24	2,549.75	421.81	447.56	137.94	2,997.31	443.79	
			Weekend	10	20	1,898.75	154.03	178.25	50.82	2,077.00	162.20	
			Total	22	44	4,448.50	449.05	625.81	147.00	5,074.31	472.50	
		September	Weekday	12	24	507.94	122.59	23.63	16.38	531.56	123.68	
			Weekend	9	18	546.75	102.15	40.50	13.50	587.25	103.03	
			Total	21	42	1,054.69	159.57	64.13	21.22	1,118.81	160.97	
		October	Weekday	9	18	205.72	72.60	58.78	39.95	264.50	82.87	
			Weekend	8	16	195.50	31.49	34.50	16.26	230.00	35.45	
			Total	17	34	401.22	79.14	93.28	43.13	494.50	90.13	
		Total	Weekday	70	139	13,336.26	994.01	2,994.25	392.60	16,330.51	1,068.74	
			Weekend	55	110	15,310.50	697.92	2,389.50	299.55	17,700.00	759.49	
			Total	125	249	28,646.76	1,214.56	5,383.75	493.82	34,030.51	1,311.12	
		Winter	December	Weekday	9	18	153.33	57.50	0.00	*	153.33	57.50
				Weekend	8	16	115.00	32.46	0.00	*	115.00	32.46
				Total	17	34	268.33	66.03	0.00	*	268.33	66.03
			January	Weekday	9	18	548.33	334.24	*	*	548.33	334.24
				Weekend	9	18	400.00	84.98	*	*	400.00	84.98
				Total	18	36	948.33	344.87	*	*	948.33	344.87
			February	Weekday	7	14	197.14	78.22	*	*	197.14	78.22
				Weekend	9	18	276.00	102.05	*	*	276.00	102.05
				Total	16	32	473.14	128.58	*	*	473.14	128.58
	March		Weekday	1	2	0.00	*	*	*	0.00	0.00	
			Total	1	2	0.00	*	*	*	0.00	0.00	
	Total		Weekday	26	52	898.81	348.05	0.00	*	898.81	348.05	
			Weekend	26	52	791.00	136.71	*	*	791.00	136.71	
			Total	52	104	1,689.81	373.94	0.00	*	1,689.81	373.94	
	Total		Total	Weekday	96	191	14,235.07	1,053.19	2,994.25	392.60	17,229.32	1,123.98
		Weekend		81	162	16,101.50	711.19	2,389.50	299.55	18,491.00	771.70	
		Total		177	353	30,336.57	1,270.82	5,383.75	493.82	35,720.32	1,363.40	

Table 3

Projected Catch and Harvest

Gile Flowage
03-MAY-2003 TO 01-MAR-2004

Species	Month	Catch	St Dev Catch	Harvest	St Dev Harvest
Black Crappie	May	0	*	0	*
	June	0	*	0	*
	July	69	43.28	10	10.57
	August	81	57.87	81	57.87
	September	0	*	0	*
	October	0	*	0	*
	December	0	*	0	*
	January	0	*	0	*
	February	0	*	0	*
	Summer	150	72.27	92	58.83
	Winter	0	*	0	*
	Total	150	72.27	92	58.83
Bluegill	May	0	*	0	*
	June	0	*	0	*
	July	93	84.23	62	62.57
	August	201	135.70	95	69.30
	September	33	34.41	33	34.41
	October	0	*	0	*
	December	0	*	0	*
	January	0	*	0	*
	February	0	*	0	*
	Summer	327	163.38	190	99.51
	Winter	0	*	0	*
	Total	327	163.38	190	99.51
Green Sunfish	May	0	*	0	*
	June	0	*	0	*
	July	104	105.70	0	*
	August	0	*	0	*
	September	0	*	0	*
	October	0	*	0	*
	December	0	*	0	*
	January	0	*	0	*
	February	0	*	0	*
	Summer	104	105.70	0	*
	Winter	0	*	0	*
	Total	104	105.70	0	*
Largemouth Bass	May	52	52.37	0	*
	June	140	110.86	0	*
	July	14	13.99	0	*
	August	19	19.48	0	*
	September	0	*	0	*
	October	0	*	0	*
	December	0	*	0	*
	January	0	*	0	*
	February	0	*	0	*
	Summer	225	124.93	0	*
	Winter	0	*	0	*
	Total	225	124.93	0	*
Muskellunge	May	11	10.59	0	*
	June	25	17.98	0	*
	July	14	13.82	0	*
	August	14	13.38	0	*
	September	0	*	0	*
	October	18	7.01	0	*
	December	0	*	0	*
	January	0	*	0	*
	February	0	*	0	*
	Summer	81	29.24	0	*
	Winter	0	*	0	*
	Total	81	29.24	0	*
Northern Pike	May	501	125.40	74	34.64
	June	828	143.19	325	105.92

Table 3

Projected Catch and Harvest

Gile Flowage
03-MAY-2003 TO 01-MAR-2004

Species	Month	Catch	St Dev Catch	Harvest	St Dev Harvest
	July	620	247.18	124	89.71
	August	46	33.65	0	*
	September	8	8.41	0	*
	October	0	*	0	*
	December	17	12.46	0	*
	January	41	28.50	10	6.14
	February	41	41.86	9	6.71
	Summer	2003	313.90	523	143.07
	Winter	99	52.15	19	9.09
	Total	2101	318.20	542	143.35
	Pumpkinseed	May	0	*	0
June		0	*	0	*
July		52	50.65	31	30.39
August		0	*	0	*
September		41	43.01	16	17.20
October		0	*	0	*
December		0	*	0	*
January		0	*	0	*
February		0	*	0	*
Summer		93	66.45	47	34.92
Winter		0	*	0	*
Rock Bass	Total	93	66.45	47	34.92
	May	49	29.24	32	23.44
	June	310	200.97	11	11.88
	July	737	289.10	21	20.74
	August	543	217.88	41	42.37
	September	85	54.76	16	17.20
	October	0	*	0	*
	December	0	*	0	*
	January	0	*	0	*
	February	0	*	0	*
	Summer	1723	418.68	121	56.67
Winter	0	*	0	*	
Total	1723	418.68	121	56.67	
Smallmouth Bass	May	5353	1,066.36	0	*
	June	11645	1,845.75	22	23.78
	July	3222	612.23	38	22.41
	August	2241	701.46	99	54.16
	September	179	68.60	14	10.32
	October	3	3.31	0	*
	December	0	*	0	*
	January	0	*	0	*
	February	0	*	0	*
	Summer	22643	2,327.12	173	64.09
	Winter	0	*	0	*
Total	22643	2,327.12	173	64.09	
Walleye	May	1824	359.11	988	184.27
	June	644	213.93	373	120.00
	July	948	276.80	499	149.97
	August	483	180.46	243	107.10
	September	107	41.92	30	15.83
	October	0	*	0	*
	December	28	13.24	26	13.00
	January	106	47.16	78	37.05
	February	20	10.51	18	9.98
	Summer	4007	534.48	2134	287.35
	Winter	155	50.10	122	40.51
Total	4161	536.82	2256	290.19	
Yellow Perch	May	0	*	0	*
	June	13	12.82	13	12.82
	July	38	29.83	0	*
	August	19	19.16	0	*

Table 3

Projected Catch and Harvest

Gile Flowage
03-MAY-2003 TO 01-MAR-2004

Species	Month	Catch	St Dev Catch	Harvest	St Dev Harvest
	September	41	32.39	24	25.81
	October	0	*	0	*
	December	0	*	0	*
	January	0	*	0	*
	February	0	*	0	*
	Summer	110	49.70	37	28.82
	Winter	0	*	0	*
	Total	110	49.70	37	28.82

Table 4

Catch Rate, Harvest Rate, and Targeted Effort Summary

Gile Flowage
03-MAY-2003 TO 01-MAR-2004

Species	Month	General Cat/Hour	General Hours/Cat	Specific Cat/Hour	Specific Hours/Cat	General Harv/Hour	General Hours/Harv	Specific Harv/Hour	Specific Hours/Harv	Specific Effort
Black Crappie	July	0.01	113.05	0.00	*	0.00	750.40	0.00	*	23
	August	0.02	62.52	0.14	7.34	0.02	62.52	0.14	7.34	595
	January	0.00	*	0.00	*	0.00	*	0.00	*	16
	Summer	0.01	85.72	0.13	7.62	0.01	140.54	0.13	7.62	618
	Winter	0.00	*	0.00	*	0.00	*	0.00	*	16
	Total	0.01	88.39	0.13	7.81	0.01	144.90	0.13	7.81	634
Bluegill	June	0.00	*	0.00	*	0.00	*	0.00	*	81
	July	0.02	44.77	0.23	4.43	0.01	67.16	0.17	5.90	368
	August	0.04	25.25	0.38	2.64	0.02	53.59	0.20	5.06	479
	September	0.06	16.32	0.70	1.43	0.06	16.32	0.70	1.43	47
	Summer	0.02	46.28	0.31	3.28	0.01	79.83	0.19	5.14	974
	Total	0.02	46.28	0.31	3.28	0.01	79.83	0.19	5.14	974
Green Sunfish	July	0.02	40.29	*	*	0.00	*	*	*	*
	Summer	0.02	40.29	*	*	0.00	*	*	*	*
	Total	0.02	40.29	*	*	0.00	*	*	*	*
Largemouth Bass	May	0.02	54.43	*	*	0.00	*	*	*	*
	June	0.01	81.87	0.95	1.05	0.00	*	0.00	*	88
	July	0.00	263.48	0.45	2.23	0.00	*	0.00	*	31
	August	0.01	155.15	*	*	0.00	*	*	*	*
	Summer	0.01	92.93	0.82	1.22	0.00	*	0.00	*	119
	Total	0.01	92.93	0.82	1.22	0.00	*	0.00	*	119
Muskellunge	May	0.00	497.90	0.00	*	0.00	*	0.00	*	46
	June	0.00	454.46	0.00	*	0.00	*	0.00	*	459
	July	0.00	569.03	0.00	*	0.00	*	0.00	*	1,136
	August	0.00	375.10	0.01	98.14	0.00	*	0.00	*	1,328
	September	0.00	*	0.00	*	0.00	*	0.00	*	486
	October	0.04	28.04	0.04	26.11	0.00	*	0.00	*	460
	Summer	0.00	386.97	0.01	125.64	0.00	*	0.00	*	3,915
	Total	0.00	386.97	0.01	125.64	0.00	*	0.00	*	3,915
Northern Pike	May	0.06	16.15	0.12	8.50	0.01	109.01	0.12	8.50	360
	June	0.07	13.85	0.14	7.17	0.03	35.29	0.10	9.95	3,233
	July	0.08	12.57	0.34	2.94	0.02	62.76	0.08	12.73	1,406
	August	0.01	109.42	0.07	15.23	0.00	*	0.00	*	294
	September	0.02	65.28	0.20	5.05	0.00	*	0.00	*	41
	December	0.06	15.72	*	*	0.00	*	*	*	*
	January	0.04	23.14	0.25	4.00	0.01	96.61	0.25	4.00	20
	February	0.09	11.68	0.18	5.56	0.02	52.74	0.18	5.56	50
	Summer	0.06	16.45	0.19	5.34	0.02	62.98	0.09	11.17	5,334
	Winter	0.06	17.14	0.20	5.01	0.01	89.94	0.20	5.01	69
	Total	0.06	16.48	0.19	5.34	0.02	63.92	0.09	10.99	5,404
	Pumpkinseed	July	0.01	80.59	0.21	4.67	0.01	134.31	0.13	7.78
September		0.08	13.06	*	*	0.03	32.64	*	*	*
Summer		0.02	50.91	0.21	4.67	0.01	99.41	0.13	7.78	242
Total		0.02	50.91	0.21	4.67	0.01	99.41	0.13	7.78	242
Rock Bass	May	0.01	165.03	*	*	0.00	254.37	*	*	*
	June	0.03	37.02	0.50	2.00	0.00	1,023.37	0.50	2.00	22
	July	0.09	10.57	*	*	0.00	375.20	*	*	*
	August	0.11	9.35	0.77	1.30	0.01	125.03	0.20	4.95	201
	September	0.08	13.20	*	*	0.01	68.70	*	*	*
	Summer	0.05	19.46	0.74	1.35	0.00	277.99	0.23	4.31	223
	Total	0.05	19.46	0.74	1.35	0.00	277.99	0.23	4.31	223
Smallmouth Bass	May	0.66	1.51	1.38	0.72	0.00	*	0.00	*	2,865
	June	1.02	0.98	1.59	0.63	0.00	511.69	0.00	306.92	6,875
	July	0.41	2.42	0.63	1.59	0.00	206.30	0.01	174.88	4,211
	August	0.44	2.26	0.70	1.43	0.02	51.49	0.03	30.36	2,991
	September	0.16	6.26	0.23	4.42	0.01	80.64	0.03	39.63	550
	October	0.02	66.25	0.06	16.07	0.00	*	0.00	*	56
	Summer	0.67	1.49	1.13	0.89	0.01	195.65	0.01	110.44	17,548
	Total	0.67	1.49	1.13	0.89	0.01	195.65	0.01	110.44	17,548
Walleye	May	0.23	4.43	0.30	3.31	0.12	8.19	0.17	6.04	5,967
	June	0.06	17.79	0.23	4.38	0.03	30.76	0.13	7.54	2,723
	July	0.12	8.22	0.18	5.53	0.06	15.60	0.10	10.27	5,131

Table 4

Catch Rate, Harvest Rate, and Targeted Effort Summary

Gile Flowage
03-MAY-2003 TO 01-MAR-2004

Species	Month	General Cat/Hour	General Hours/Cat	Specific Cat/Hour	Specific Hours/Cat	General Harv/Hour	General Hours/Harv	Specific Harv/Hour	Specific Hours/Harv	Specific Effort
	August	0.10	10.51	0.26	3.85	0.05	20.84	0.14	7.21	1,756
	September	0.10	10.48	0.18	5.52	0.03	37.10	0.04	24.75	545
	October	0.00	*	0.00	*	0.00	*	0.00	*	75
	December	0.11	9.45	0.11	9.45	0.10	10.48	0.10	10.48	268
	January	0.11	8.90	0.12	8.57	0.08	12.09	0.09	11.64	913
	February	0.04	23.73	0.05	21.23	0.04	26.37	0.04	23.59	423
	Summer	0.12	8.49	0.24	4.15	0.06	15.95	0.13	7.66	16,197
	Winter	0.09	10.91	0.10	10.36	0.07	13.85	0.08	13.15	1,604
	Total	0.12	8.58	0.23	4.38	0.06	15.83	0.13	7.96	17,801
Yellow Perch	June	0.00	485.15	*	*	0.00	485.15	*	*	*
	July	0.00	206.30	0.00	*	0.00	*	0.00	*	469
	August	0.01	155.15	0.06	18.00	0.00	*	0.00	*	348
	September	0.08	13.06	0.87	1.14	0.05	21.76	0.52	1.91	47
	Summer	0.01	157.94	0.07	14.38	0.00	470.84	0.03	35.34	863
	Total	0.01	157.94	0.07	14.38	0.00	470.84	0.03	35.34	863

Table 5

Length Frequency of Creel Clerk Measured Fish

Gile Flowage
03-MAY-2003 TO 01-MAR-2004

Species	Length	Freq	CumFreq	CumPercent
Black Crappie	11	1	1	14%
	12	4	5	71%
	13	2	7	100%
Bluegill	6	5	5	33%
	7	5	10	67%
	8	2	12	80%
	9	2	14	93%
	10	1	15	100%
Northern Pike	11	2	2	2%
	12	4	6	7%
	13	2	8	9%
	14	3	11	13%
	15	3	14	16%
	16	4	18	21%
	17	10	28	32%
	18	16	44	51%
	19	16	60	69%
	20	11	71	82%
	21	9	80	92%
	22	4	84	97%
	23	2	86	99%
	24	0	86	99%
	25	0	86	99%
	26	0	86	99%
	27	0	86	99%
	28	0	86	99%
	29	0	86	99%
30	0	86	99%	
31	0	86	99%	
32	0	86	99%	
33	0	86	99%	
34	0	86	99%	
35	0	86	99%	
36	1	87	100%	
Pumpkinseed	6	1	1	50%
	7	1	2	100%
Rock Bass	8	3	3	33%
	9	3	6	67%
	10	3	9	100%
Smallmouth Bass	14	2	2	13%
	15	9	11	73%
	16	2	13	87%
	17	2	15	100%
Walleye	4	1	1	0%
	5	0	1	0%
	6	0	1	0%
	7	0	1	0%
	8	0	1	0%
	9	3	4	1%
	10	12	16	6%
	11	17	33	12%
	12	48	81	30%
	13	59	140	51%
	14	52	192	70%
15	35	227	83%	
16	24	251	92%	
17	9	260	95%	
18	6	266	97%	
19	3	269	98%	
20	2	271	99%	
21	2	273	100%	
22	0	273	100%	

Table 5

Length Frequency of Creel Clerk Measured Fish

Gile Flowage
03-MAY-2003 TO 01-MAR-2004

Species	Length	Freq	CumFreq	CumPercent
	23	0	273	100%
	24	1	274	100%
Yellow Perch	8	1	1	25%
	9	1	2	50%
	10	1	3	75%
	11	0	3	75%
	12	1	4	100%

Table 6

Mean Lengths of Harvested Fish

Gile Flowage
03-MAY-2003 TO 01-MAR-2004

Species	Month	Mean	Std Err	N	Var	Max	Min
Black Crappie	July	12.20	*	1	*	12.20	12.20
	August	12.55	0.40	6	0.96	13.90	11.00
	Summer	12.50	0.34	7	0.81	13.90	11.00
	Total	12.50	0.34	7	0.81	13.90	11.00
Bluegill	July	6.53	0.30	4	0.35	7.40	6.10
	August	7.49	0.38	7	0.98	8.80	6.10
	September	8.85	0.56	4	1.27	10.00	7.30
	Summer	7.59	0.32	15	1.55	10.00	6.10
Total	7.59	0.32	15	1.55	10.00	6.10	
Northern Pike	May	17.19	0.64	7	2.87	19.60	15.10
	June	18.01	0.37	58	7.73	21.90	11.50
	July	20.52	1.67	11	30.80	36.10	15.20
	January	21.60	0.60	2	0.72	22.20	21.00
	February	20.82	0.71	9	4.55	23.30	17.70
	Summer	18.30	0.38	76	11.11	36.10	11.50
	Winter	20.96	0.59	11	3.81	23.30	17.70
	Total	18.64	0.35	87	10.93	36.10	11.50
Pumpkinseed	September	6.75	0.25	2	0.13	7.00	6.50
	Summer	6.75	0.25	2	0.13	7.00	6.50
	Total	6.75	0.25	2	0.13	7.00	6.50
Rock Bass	May	9.33	0.62	3	1.16	10.10	8.10
	June	8.90	0.60	2	0.72	9.50	8.30
	August	9.05	1.05	2	2.21	10.10	8.00
	September	9.85	0.15	2	0.05	10.00	9.70
	Summer	9.29	0.30	9	0.79	10.10	8.00
	Total	9.29	0.30	9	0.79	10.10	8.00
Smallmouth Bass	June	15.10	0.70	4	1.95	17.00	14.00
	July	16.03	0.83	3	2.08	17.70	15.20
	August	15.42	0.14	6	0.13	16.00	15.00
	September	16.00	0.10	2	0.02	16.10	15.90
	Summer	15.53	0.25	15	0.91	17.70	14.00
	Total	15.53	0.25	15	0.91	17.70	14.00
Walleye	May	14.16	0.22	82	3.92	20.60	10.00
	June	14.20	0.40	44	6.97	24.60	9.50
	July	13.37	0.23	43	2.20	17.00	10.00
	August	12.94	0.83	15	10.25	18.10	4.00
	September	15.25	0.82	4	2.70	17.00	13.40
	December	14.85	0.39	17	2.54	18.40	12.40
	January	14.04	0.36	47	6.22	19.00	9.50
	February	14.07	0.55	22	6.55	21.00	10.00
	Summer	13.91	0.16	188	4.83	24.60	4.00
	Winter	14.21	0.25	86	5.57	21.00	9.50
Total	14.00	0.14	274	5.06	24.60	4.00	
Yellow Perch	June	12.50	*	1	*	12.50	12.50
	September	9.03	0.58	3	1.00	10.00	8.00
	Summer	9.90	0.96	4	3.67	12.50	8.00
	Total	9.90	0.96	4	3.67	12.50	8.00

Table 7

Proportion of Marked Fish in Measured Sample

Gile Flowage
03-MAY-2003 TO 01-MAR-2004

		May		June		July		August		September		December		January		February	
Species	Mark	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Black Crappie	NONE	*	*	*	*	1	100%	6	100%	*	*	*	*	*	*	*	*
Bluegill	NONE	*	*	*	*	4	100%	7	100%	4	100%	*	*	*	*	*	*
Northern Pike	LP	1	14%	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	NONE	6	86%	58	100%	11	100%	*	*	*	*	*	*	2	100%	9	100%
Pumpkinseed	NONE	*	*	*	*	*	*	*	*	2	100%	*	*	*	*	*	*
Rock Bass	NONE	3	100%	2	100%	*	*	2	100%	2	100%	*	*	*	*	*	*
Smallmouth Bass	NONE	*	*	4	100%	3	100%	6	100%	2	100%	*	*	*	*	*	*
Walleye	LP	30	37%	7	16%	8	19%	1	7%	*	*	1	6%	16	34%	6	27%
	NONE	52	63%	37	84%	35	81%	14	93%	4	100%	16	94%	31	66%	16	73%
Yellow Perch	NONE	*	*	1	100%	*	*	*	*	3	100%	*	*	*	*	*	*

Table 8

Estimated Number of Marked Fish Harvested

Gile Flowage
03-MAY-2003 TO 01-MAR-2004

Species	Finclip	May	June	July	August	December	January	February	Total
Northern Pike	LP	11	*	*	*	*	*	*	11
Walleye	LP	362	59	93	16	2	27	5	564
Total		373	59	93	16	2	27	5	575

Table 9

Listing of All Marked Fish Caught

Gile Flowage
03-MAY-2003 TO 01-MAR-2004

Species	Date	Length	Weight	Finclip	Tag Number
Northern Pike	03-May-2003	19.6		LP	
Walleye	03-May-2003	13.5		LP	
		15.9		LP	
		13.0		LP	
		14.0		LP	
		15.4		LP	
		14.2		LP	
		14.0		LP	
		13.0		LP	
		15.6		LP	
		15.6		LP	
		14.2		LP	
		16.0		LP	
		16.6		LP	
		12.1		LP	
	04-May-2003	14.5		LP	
		13.2		LP	
		14.1		LP	
		15.1		LP	
		14.7		LP	
	08-May-2003	12.1		LP	
		12.4		LP	
	12-May-2003	12.4		LP	
		14.2		LP	
	18-May-2003	14.2		LP	
		14.9		LP	
	22-May-2003	13.4		LP	
		14.7		LP	
	23-May-2003	14.2		LP	
	25-May-2003	14.7		LP	
		12.1		LP	
	26-May-2003	15.3		LP	
	02-Jun-2003	15.7		LP	
	07-Jun-2003	18.5		LP	
	13-Jun-2003	13.0		LP	
		13.6		LP	
		12.1		LP	
	22-Jun-2003	12.5		LP	
		13.5		LP	
		12.0		LP	
	03-Jul-2003	11.5		LP	
		13.5		LP	
		13.2		LP	
		13.1		LP	
	06-Jul-2003	11.5		LP	
		14.8		LP	
	29-Jul-2003	12.9		LP	
	26-Aug-2003	12.5		LP	
31-Dec-2003	14.0		LP		
02-Jan-2004	16.5		LP		
	13.0		LP		
	12.5		LP		
03-Jan-2004	12.5		LP		
	14.5		LP		
	16.5		LP		
08-Jan-2004	14.0		LP		
	16.0		LP		
	15.5		LP		
11-Jan-2004	15.5		LP		
	14.0		LP		
	13.5		LP		
17-Jan-2004	14.0		LP		
	16.0		LP		

Table 9

Listing of All Marked Fish Caught

Gile Flowage
03-MAY-2003 TO 01-MAR-2004

Species	Date	Length	Weight	Finclip	Tag Number
	24-Jan-2004	17.5		LP	
	25-Jan-2004	16.0		LP	
	01-Feb-2004	17.5		LP	
	15-Feb-2004	14.5		LP	
	26-Feb-2004	15.5		LP	
	28-Feb-2004	15.5		LP	
		14.0		LP	
		15.5		LP	



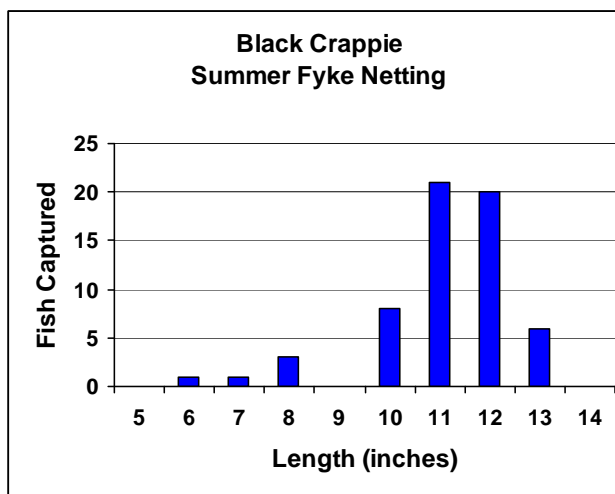
Summer Panfish Survey Summary Gile Flowage, Iron County, 2011

The Mercer DNR Fisheries Management Team conducted a fyke netting survey on the Gile Flowage during July 6-8, 2011 as part of our baseline monitoring program. Six nets were set overnight, for three nights, resulting in 18 net-nights of effort. Primary target species were bluegill, black crappie, and pumpkinseed sunfish. An electrofishing survey conducted by the Mercer team in mid May documented the status of smallmouth bass (summarized in a separate survey summary) but provided a poor sample of panfish. We believe this netting survey provides better insight into the relative number and sizes of panfish in the Gile Flowage. Quality, preferred, and memorable sizes referenced in this summary are based on standard proportions of world record lengths developed for each species by the American Fisheries Society.

Black Crappie



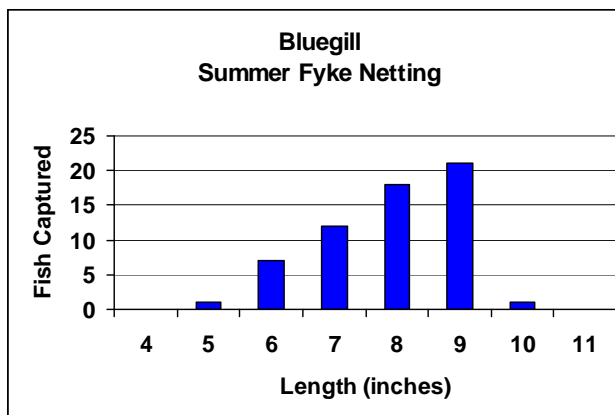
Captured 3.3 per net-night $\geq 5''$	
Quality Size $\geq 8''$	97%
Preferred Size $\geq 10''$	92%
Memorable Size $\geq 12''$	43%



Bluegill



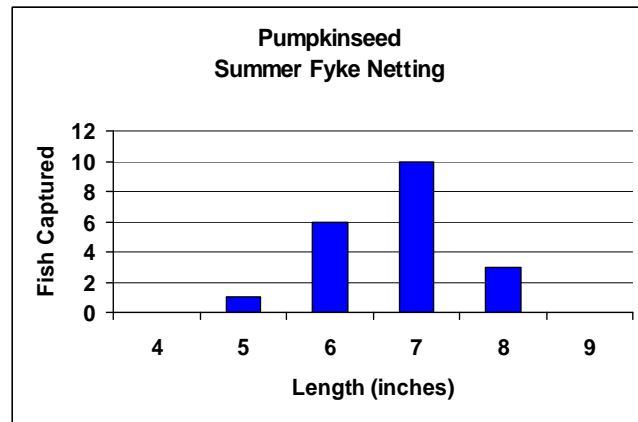
Captured 3.3 per net-night $\geq 3''$	
Quality Size $\geq 6''$	98%
Preferred Size $\geq 8''$	67%



Pumpkinseed



Captured 1.1 per net-night $\geq 3''$	
Quality Size $\geq 6''$	95%
Preferred Size $\geq 8''$	15%



Summary of Results

Fyke nets were set throughout the Flowage in habitats likely to be used by panfish species in early summer (e.g. shallow water with aquatic vegetation). Surface water temperatures were typically in the mid 70s, and water levels appeared normal. Black crappie and pumpkinseed had completed all spawning activity by the time of our survey, and mature bluegills would have finished their earliest bouts of spawning. Despite this fact, we believe that our sample is representative of the size distributions of spawning stocks present for these species.

Black Crappie

Average catch rate of black crappie was low (3.3 per net-night), but the size structure of the population was very good. Of the 60 crappies captured, 55 (92%) were ≥ 10 inches, and 26 (43%) were also ≥ 12 inches. The catch rate of black crappie was slightly below the target range (5-10 per net-night) identified in the 2005 Gile Flowage Fishery Management Plan. The proportion of black crappie ≥ 10 inches (92%) exceeded the Management Plan target range of 30-50%.

Bluegill

Average catch rate of bluegill was low (3.3 per net-night), but the size structure of the population was very good. Of the 60 bluegills captured, 52 (87%) were ≥ 7 inches, and 40 (67%) were also ≥ 8 inches. As with crappie, the bluegill catch rate was below the Management Plan target range (5-15 per net-night), but size structure (≥ 8 inches) was above the target range of 40-60%.

Pumpkinseed Sunfish

Average catch rate of pumpkinseed was also low at 1.1 per net-night. Of the 20 fish sampled, however, 13 (65%) were over 7 inches long.

Yellow Perch

Only two perch (10.4 and 12.9 inches in length) were captured during this survey. Due to the early nature of yellow perch spawning behavior (shortly after ice-out), we are planning an early-spring netting survey in 2012 to get a more representative look at the perch population.

Conclusions

Based on results of this and previous surveys, it seems there is a relatively low-density, but high-quality panfish fishery in the Gile Flowage. This is expected due to the fact that the Gile Flowage is a predator-dominant system with probable high rates of predation on young panfish. Walleye (effective predators of young panfish) recruitment in the Gile Flowage has been documented to be relatively high. Therefore, as long as walleye recruitment remains high, we will expect the panfish fishery to continue to exhibit the characteristics observed here. Although catch rates for crappie and bluegill are below Management Plan target ranges, a couple more surveys should be completed before adjusting objectives and/or management strategies. Anglers will most likely have to spend some time if trying to find numbers of panfish, but they should be rewarded for their efforts with quality-size fish.

Lawrence Eslinger, Jim Cox, and Jim Zarzycki
November 18, 2011

Edited and Approved by Dave Neuswanger
Fisheries Team Leader, Upper Chippewa Basin, Hayward
November 22, 2011



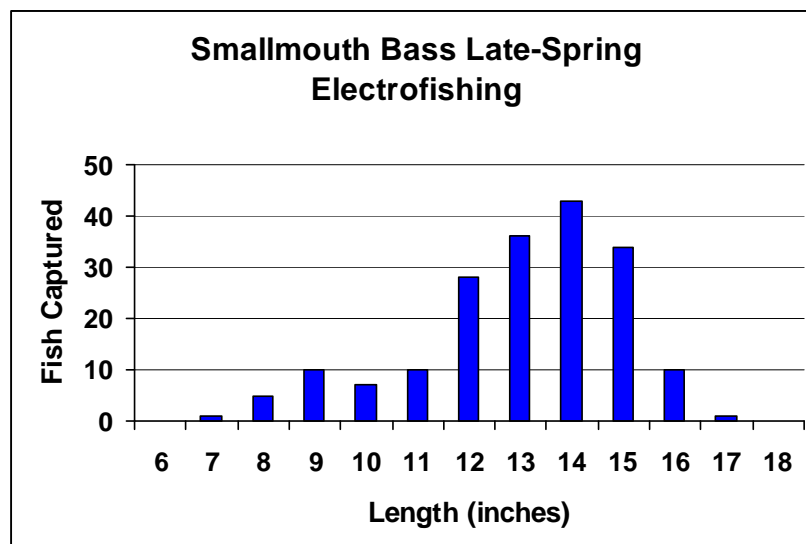
Late-Spring Electrofishing Survey Summary Gile Flowage, Iron County, 2011

The Mercer DNR Fisheries Management Team conducted electrofishing surveys on the Gile Flowage on May 25th and 26th, 2011, as part of the fisheries management baseline monitoring program. A total of 10.0 miles of shoreline were sampled (2.5 miles sub-sampled for panfish). Smallmouth bass was the primary target species; but data on the status of bluegill, black crappie, and yellow perch were also obtained. A fyke netting survey, conducted in early July, was also completed to better assess the status of the panfish community (e.g. black crappie and bluegill). The results from that fyke netting survey are presented in a separate survey summary. Quality, preferred, and memorable sizes referenced in this summary are based on standard proportions of world record lengths developed for each species by the American Fisheries Society.

Smallmouth Bass



Captured 19 per mile $\geq 7''$	
Quality Size $\geq 11''$	88%
Preferred Size $\geq 14''$	48%
Memorable Size $\geq 17''$	1%



Summary of Results

The shoreline reaches that were sampled during this survey are areas that have been determined to be selected by smallmouth bass for spawning purposes, as well as random locations not identified to be favorable for any particular species. Water levels during the survey were noted to be near normal elevations, and water temperatures were in the mid to upper 50s. Therefore, the survey was well-timed for purposes of obtaining a representative sample of all sizes of smallmouth bass in, and around, the near-shore spawning areas.

A total of 187 smallmouth bass were captured during the 2011 survey. Smallmouth bass ≥ 7 inches were captured at a rate of 19 per mile, just below the target range (20-40 per mile) identified in the 2005 Gile Flowage Fishery Management Plan, and somewhat higher than the 2008 capture rate of 12 per mile in 2008. Of all bass 7 inches and longer captured during the 2011 survey, 48% were over 14 inches (22% in 2008), but no fish were over 18 inches (2% in 2008; Management Plan target range 5-15%). Except for the scarcity of fish over 18 inches, the smallmouth bass population appears to be very healthy (near optimal abundance with an increasing proportion of preferred-size fish). Gile Flowage smallmouth bass are managed under a 14-18 inch no-harvest slot and 3 fish daily bag limit (only 1 > 18) that went into effect in 2008. A couple more surveys will need to be completed in order to determine if the slot limit is properly functioning to achieve the Management Plan objectives. Anglers should find quality smallmouth bass fishing opportunities for both numbers and size (with the exception of fish over 18 inches) on the Gile Flowage.

Very low numbers of panfish were captured during this survey. Because the few panfish captured do not provide an adequate sample of those species, panfish results are not presented here. Instead, a better representation of the current panfish community within the Gile Flowage can be found in the document, "Gile Flowage 2011 Summer Fyke Netting Survey Summary," posted separately.

Lawrence Eslinger, Jim Cox, and Jim Zarzycki
November 17, 2011

Edited and Approved by Dave Neuswanger
November 17, 2011



Summary of Fishery Surveys Gile Flowage, Iron County, 2013

Survey Description

The Mercer DNR Fisheries Management Team conducted the following fishery surveys on Gile Flowage in 2013: a late-spring electrofishing survey (June 4 along 5.9 miles of shoreline) to assess the smallmouth bass and panfish populations, and an experimental fall fyke netting survey (October 8-10 using 9 fyke nets set overnight for 2 nights for a total of 18 net-nights) in an attempt to assess the black crappie population. Quality, preferred, and memorable sizes referenced in this summary are based on standard proportions of world record lengths developed for each species by the American Fisheries Society.

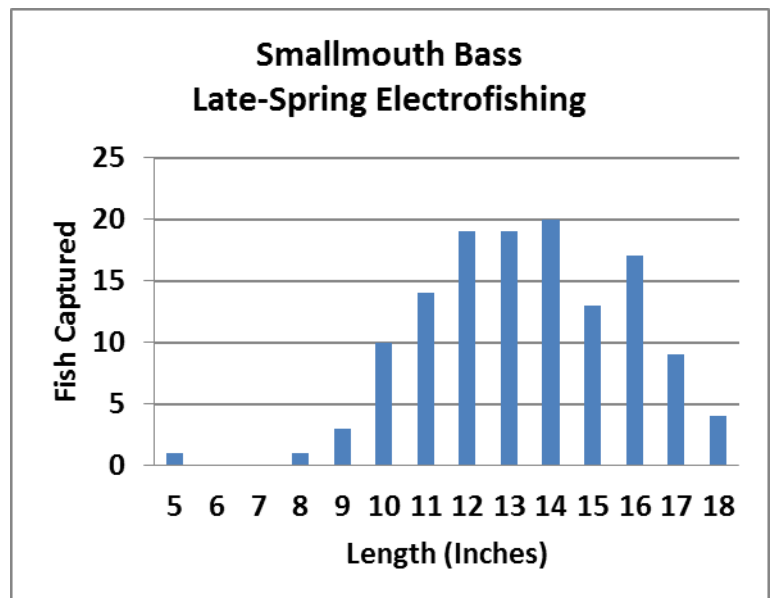
Habitat Characteristics

The Gile Flowage is a 3,384-acre drainage system (maximum depth of 25 feet) with medium brown-stained water and low to moderate water clarity (Secchi disk visibility 4 to 5 feet). The littoral zone (near-shore area where light is able to penetrate to the lake bottom) substrates are comprised primarily of sand, gravel/rubble, and silt with relatively sparse amounts of aquatic vegetation due primarily to significant (~7 feet) annual winter drawdowns. Nutrient analyses (e.g., phosphorus) have typically shown that the Flowage is moderately productive (mesotrophic in status). There are four public boat landings available. For more details, see the 2005 Gile Flowage Fishery Management Plan online at <http://dnr.wi.gov/water/basin/upchip/>.

Smallmouth Bass



Captured 22 per mile $\geq 7''$	
Quality Size $\geq 11''$	89%
Preferred Size $\geq 14''$	49%
Memorable Size $\geq 17''$	10%

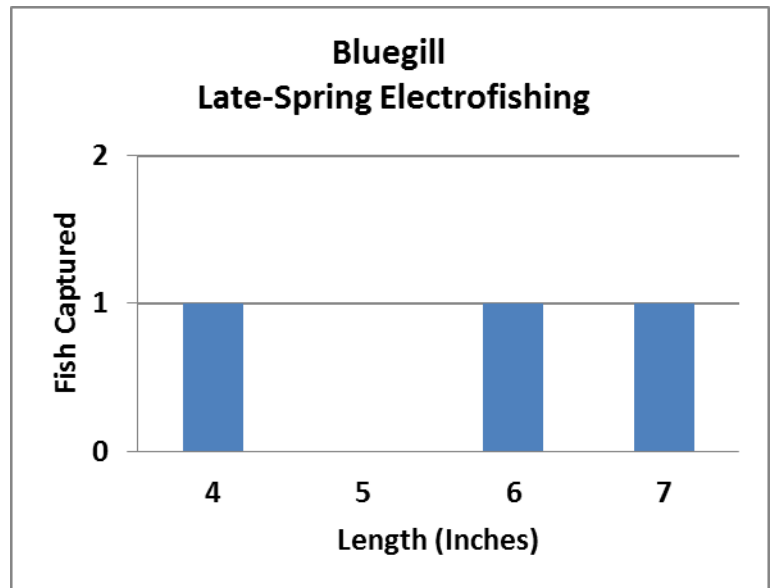


Smallmouth bass ≥ 7 inches were captured at a relatively high rate of 22 per mile or 48 per hour (target level 20-40 per hour in 2005 Management Plan) during the late-spring electrofishing survey. Size structure of our sample was very good, with all size classes represented, along with a notable increase in the proportion of memorable-size fish from 1% in 2011 to 10% in 2013. No largemouth bass were captured or observed during the 2013 survey.

Bluegill



Captured 2 per mile $\geq 3''$	
Quality Size $\geq 6''$	67%
Preferred Size $\geq 8''$	0%

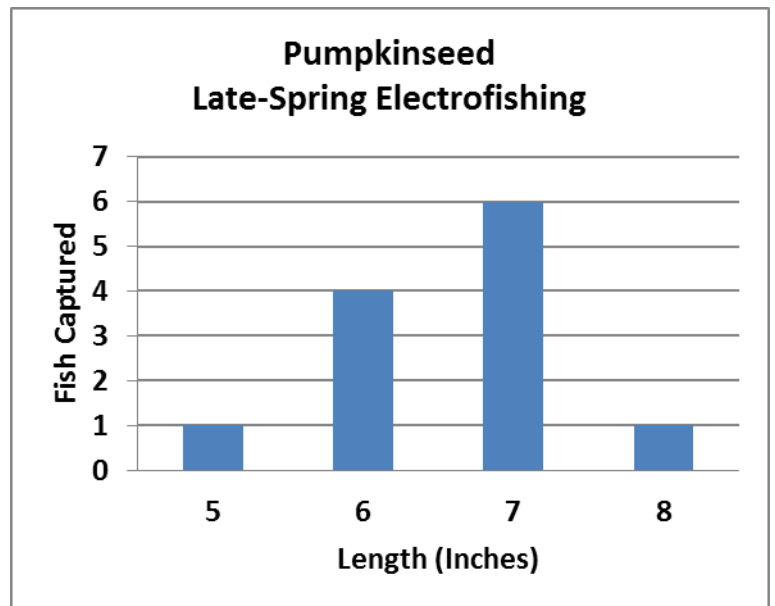


Bluegills ≥ 3 inches were captured at a very low rate of 2 per mile during the late-spring electrofishing survey, reflecting very low density. This sample was too small to accurately estimate population size distribution.

Pumpkinseed



Captured 8 per mile $\geq 3''$	
Quality Size $\geq 6''$	92%
Preferred Size $\geq 8''$	8%

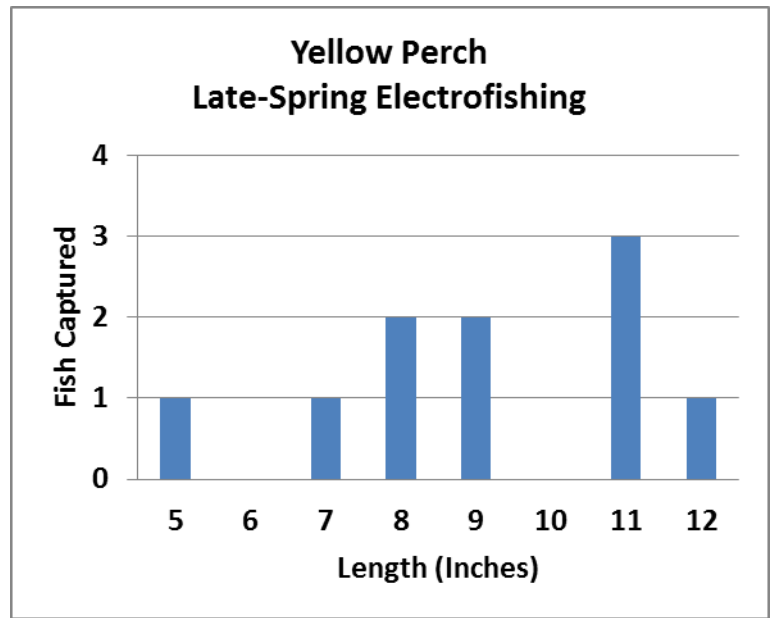


Pumpkinseeds ≥ 3 inches were captured at a low rate of 8 per mile during the late-spring electrofishing survey. Size structure of the population sample was good, with the majority of fish being of an acceptable size to anglers.

Yellow Perch

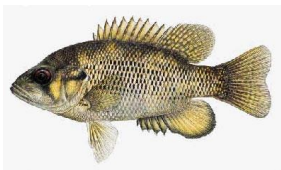


Captured 7 per mile $\geq 5''$	
Quality Size $\geq 8''$	80%
Preferred Size $\geq 10''$	40%
Memorable Size $\geq 12''$	10%

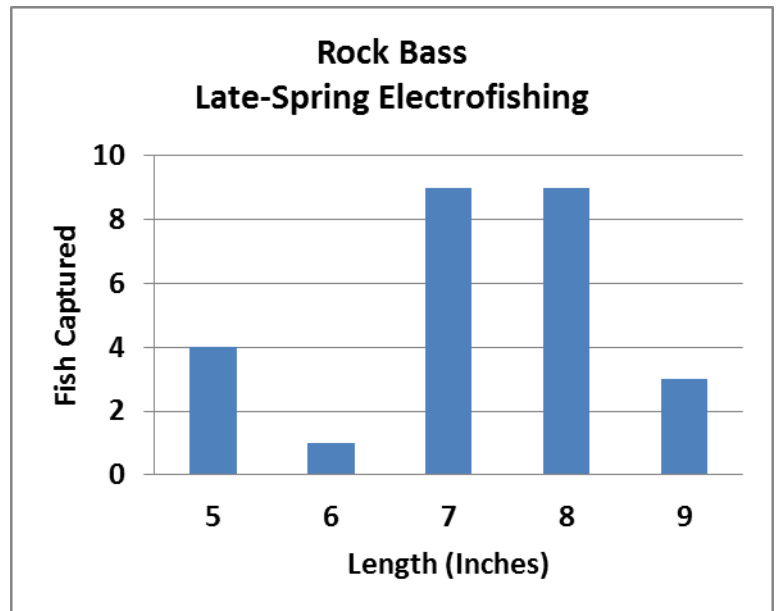


Yellow perch ≥ 5 inches were captured at a low rate of 7 per mile during the late-spring electrofishing survey. Although electrofishing is not the best way to document the relative abundance of perch, our sample does reveal there is a higher proportion of preferred-size perch in the Gile Flowage than in most nearby waters.

Rock Bass



Captured 17 per mile $\geq 4''$	
Quality Size $\geq 7''$	81%
Preferred Size $\geq 9''$	12%



Rock bass ≥ 4 inches were captured at a moderate rate of 17 per mile during the late-spring electrofishing survey. Size structure of our sample was good, with over 80% being of quality size or better.

Conclusions

The Gile Flowage currently contains one of the most robust smallmouth bass fisheries in Wisconsin. Survey results indicate that our capture rate of smallmouth bass ≥ 7 inches falls within the upper 93rd percentile amongst statewide populations. Gile Flowage bass are managed under a three-fish daily bag and no minimum length limit, however, 14- to 18-inch fish must be released, and only one fish over 18 inches may be kept. This regulation was implemented at the start of the 2008 angling season, and it appears that the smallmouth bass population is starting to respond favorably in terms of size structure. In 2013, 10% of bass ≥ 7 inches were also ≥ 17 inches; whereas in similar surveys conducted in 2006, 2008, and 2011, the proportion of memorable-size bass ≥ 17 inches ranged between 1% and 3%. Despite the fact that smallmouth bass < 14 inches long may be harvested in the Gile Flowage, numbers remain at slightly higher levels than the target range identified in the 2005 Gile Flowage Fishery Management Plan. We don't suspect that smallmouth are hindering other Flowage fish species, but anglers should be aware that harvesting a few smallmouth bass under the 14-18 inch protected slot would provide a good meal and do no harm from a fishery management perspective.

Panfish populations within the Gile Flowage continue to display characteristics of a panfishery that is dominated by predatory gamefish (e.g. walleye, northern pike, etc.). Relatively low numbers, but quality size, characterizes Gile Flowage panfish due primarily to high predation levels. Panfish that do make it past the large numbers of predators tend to experience fast growth (due to abundant food) which results in the quality size observed commonly by anglers and in our fish surveys. Anglers fortunate enough to experience some of the quality panfishing the Gile Flowage occasionally offers are encouraged to practice selective harvest (i.e., voluntarily refrain from harvesting the daily bag limit or the largest fish) in order to help sustain quality fishing opportunities.

The experimental fall fyke netting survey on the Gile Flowage resulted in an extremely low catch and did not provide meaningful insight into the black crappie population as hoped. Therefore, no results from that survey are presented. A 2014 early-spring fyke netting survey to assess the muskellunge population may provide a representative sample of the crappie population at that time if the adult crappies are in the shallows preparing to spawn.

Other species captured during these surveys, but not reported here due to low abundance and/or sampling bias, included: walleye, northern pike, muskellunge, black crappie, yellow bullhead, white sucker, and golden shiner.

Survey Data Collected and Analyzed By: Lawrence Eslinger, Jason Folstad, and Jim Zarzycki

Report By: Lawrence Eslinger, Fisheries Biologist, 2/11/2014

Edited and Approved By: Dave Neuswanger, Fisheries Supervisor, Hayward Field Unit, 2/21/14



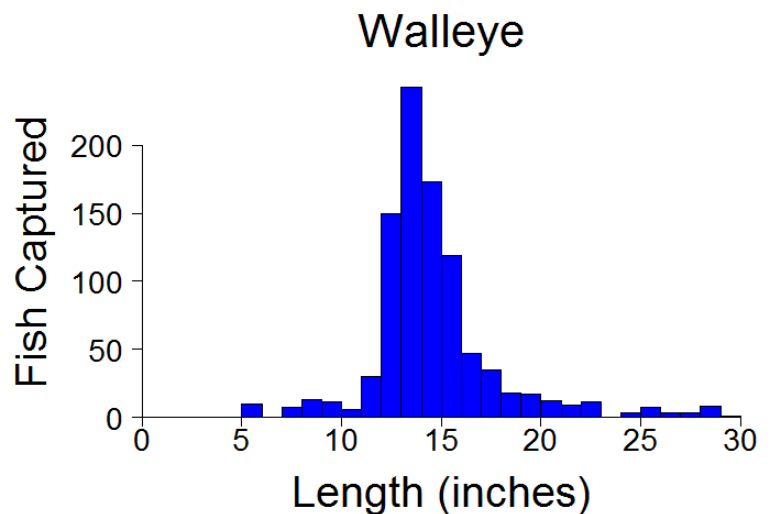
Summary of Fishery Surveys Gile Flowage, Iron County, 2015

The Gile Flowage is a soft water drainage impoundment with predominantly sand, muck, and gravel substrates. It has a surface area of 3,384 acres and a maximum depth of 25 feet. The Mercer DNR Fisheries Management Team conducted the following fishery surveys on the Gile Flowage in 2015: an early-spring fyke netting survey targeting the walleye population; a late-spring electrofishing survey to assess bass and panfish populations; and a summer fyke netting survey assess the panfish populations. Quality, preferred, and memorable sizes referenced in this summary are based on standard proportions of world record lengths developed for each species by the American Fisheries Society, and reflect the percentage of the adult population sampled larger than the specified size.



Walleye Size Groups (PSD/RSD)

Size Class	% of Sample
Quality (> 15 in.)	33
Preferred (> 20 in.)	6
Memorable (> 25 in.)	2



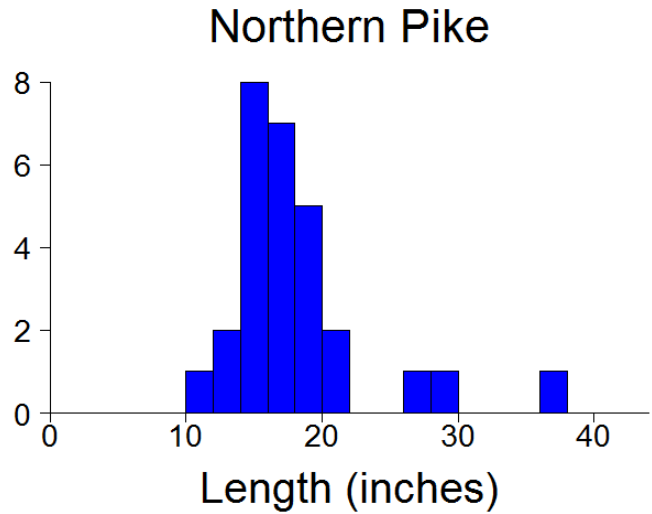
We captured a total of 799 individual walleyes during our early-spring netting period at a rate of 159.4/net-night. Walleyes ranged in length from 10.9” – 29.0” and averaged 14.9”. While the proportion of the adult walleyes present above 15” is relatively low (33%), there are still respectable numbers of large fish (over 20”) available. These results suggest that walleyes are present in moderate-high densities and the population exhibits a well-balanced size structure.



Northern Pike Size Groups (PSD/RSD)

Size Class	% of Sample
Quality (> 21 in.)	12
Preferred (> 28 in.)	8
Memorable (> 34 in.)	4

Fish Captured



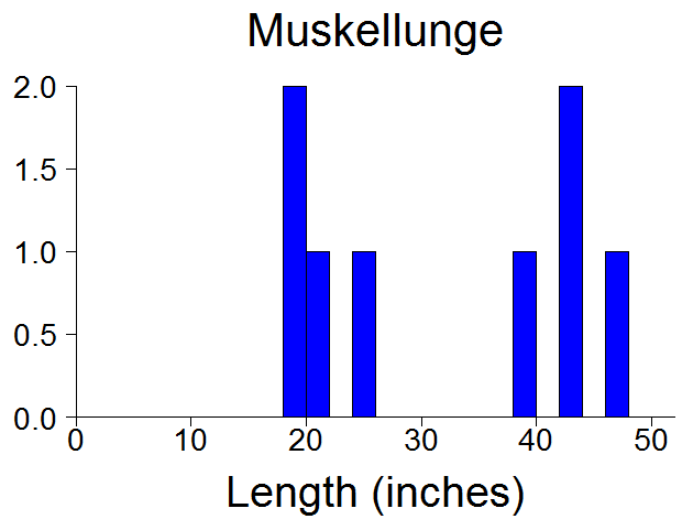
Although northern pike were not targeted during any 2015 surveys, they were detected at low levels in all survey efforts. We sampled a total of 28 individual northern pike ranging from 11.6” – 37.9”. While most fish sampled fall below the preferred size for anglers (as noted by low PSD and RSD values), the population exhibits trophy potential.



Muskellunge Size Groups (PSD/RSD)

Size Class	% of Sample
Quality (> 30 in.)	67
Preferred (> 38 in.)	67
Memorable (> 42 in.)	50

Fish Captured

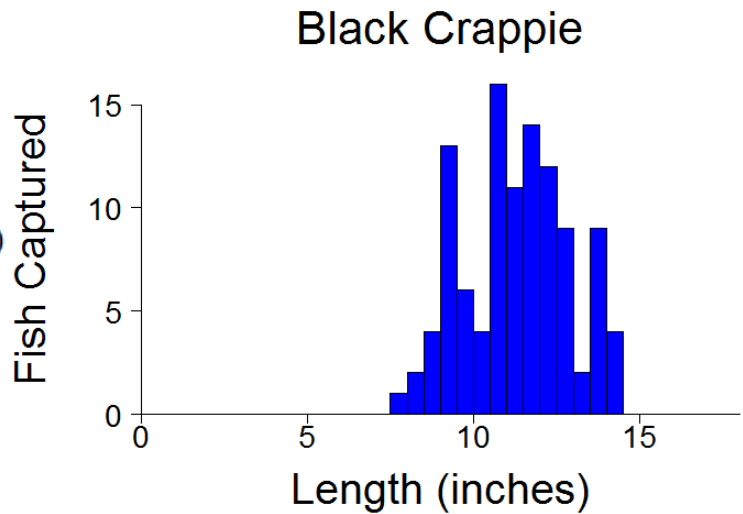


Muskellunge were not targeted in during our survey work during 2015, but were detected in all surveys conducted. We handled a total of 8 muskellunge ranging from 18.0” – 46.0”. Individuals observed in our survey work indicate that the muskellunge population exhibits a quality size structure.



Black Crappie Size Groups (PSD/RSD)

Size Class	% of Sample
Quality (> 8 in.)	99
Preferred (> 10 in.)	76
Memorable (> 12 in.)	34

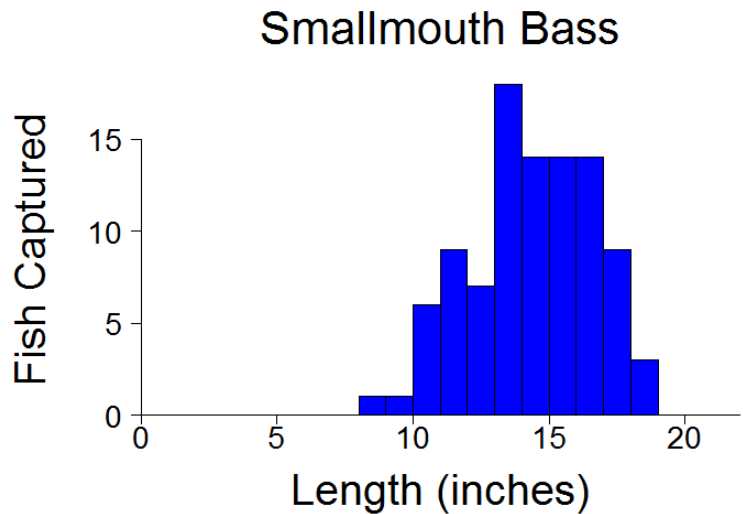


The summer fyke netting survey sampled a total of 78 black crappies at a rate of 5.3/net night. Crappies ranged in length from 8.4” – 14.3” and averaged 11.2”. These results suggest that black crappies are present in low densities, but the population exhibits a quality size structure.



Smallmouth Size Groups (PSD/RSD)

Size Class	% of Sample
Quality (> 11 in.)	92
Preferred (> 14 in.)	56
Memorable (> 17 in.)	12

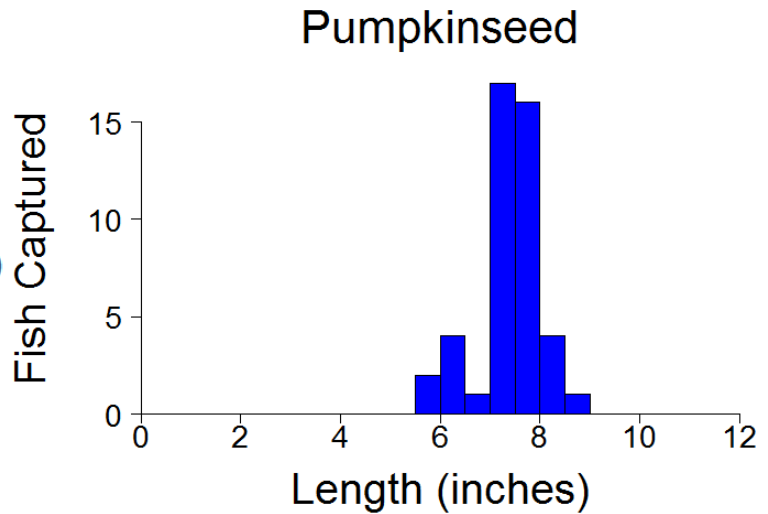


The targeted, late-spring electrofishing survey sampled a total of 85 smallmouth bass at a rate of 21.3/mile. Smallmouth bass ranged in length from 8.8” – 18.1” and averaged 14.2”. These results suggest that smallmouth bass are relatively abundant and the population exhibits a quality size structure.



Pumpkinseed Size Groups (PSD/RSD)

Size Class	% of Sample
Quality (> 6 in.)	96
Preferred (> 8 in.)	11
Memorable (> 10 in.)	0

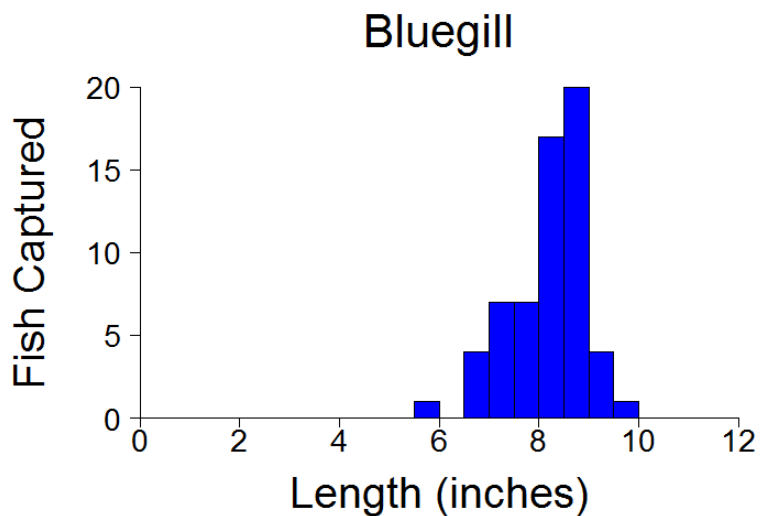


During a targeted summer fyke netting survey, pumpkinseeds were captured at a rate of 2.5/net night. A total of 38 individuals were sampled ranging in length from 5.5” – 8.7” and averaged 7.3”. These results suggest that pumpkinseeds are present in low densities but the population exhibits a quality size structure.



Bluegill Size Groups (PSD/RSD)

Size Class	% of Sample
Quality (> 6 in.)	98
Preferred (> 8 in.)	69
Memorable (> 10 in.)	0



During a targeted summer fyke netting survey, bluegills were captured at a rate of 3.3/net night. A total of 59 individuals were sampled ranging in length from 5.8” – 9.6” and averaged 8.2”. These results suggest that bluegills are present in low densities but the population exhibits a quality size structure.

Additional Notes:

Results from all surveys conducted during 2015 suggest that the Gile Flowage is a predator-dominated system. Walleyes, northern pike, muskellunge, and smallmouth bass appear to be present in relatively strong numbers. While quality numbers may be the most notable feature of these populations, trophy potential exists for all gamefish species. On the other hand, panfish populations appear to be at low densities, but black crappies, bluegill, and pumpkinseeds all appear to have quality size structures.

Rock bass, brown and yellow bullheads, and yellow perch were also observed in these surveys. For questions or additional results from 2015 survey work contact:

Zach Lawson

Zachary.Lawson@Wisconsin.gov

Phone: (715) 476-7847

Survey Data Collected By: Jim Zarzycki and Zach Lawson

Analyzed and Report By: Zach Lawson, Fisheries Biologist, Iron County, 10/20/15

Approved for Posting By: Mike Vogelsang, North District Fisheries Supervisor, 2/3/16



Summary of Fishery Surveys Gile Flowage, Iron County, 2017

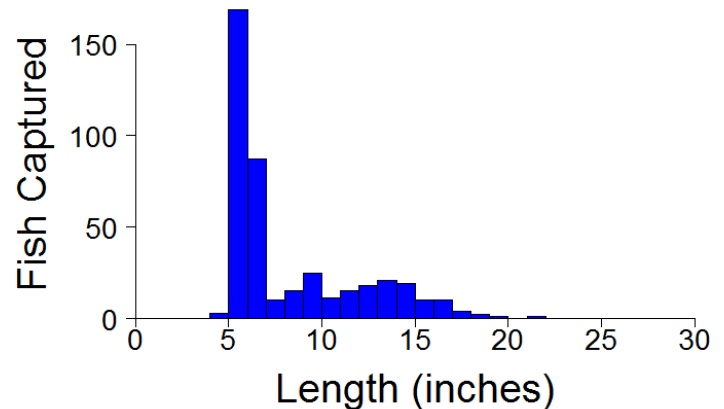
The Mercer DNR Fisheries Management Team conducted the following fishery surveys on the Gile Flowage in 2017: a late-spring electrofishing survey to assess bass and panfish populations; an early summer fyke-netting survey to assess panfish populations and a fall electrofishing survey to assess gamefish recruitment. Quality, preferred, and memorable sizes referenced in this summary are based on standard proportions of world record lengths developed for each species by the American Fisheries Society, and reflect the percentage of the adult population sampled larger than the specified size.



Walleye Size Groups (PSD/RSD)

Size Class	% of Sample
Quality (> 15 in.)	25
Preferred (> 20 in.)	1
Memorable (> 25 in.)	0

Walleye

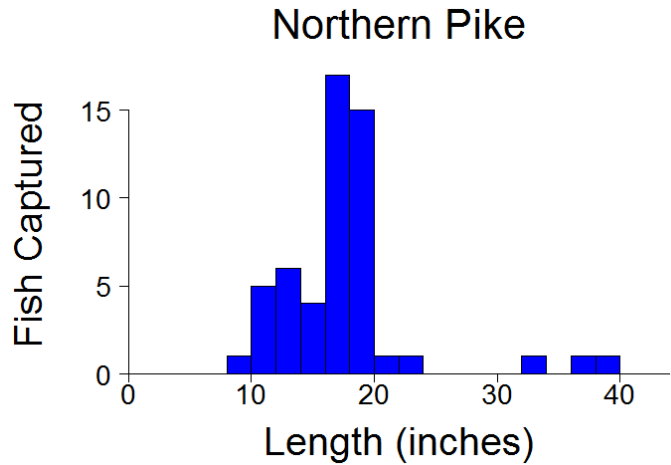


During the fall electrofishing survey a total of 409 individual walleyes were captured ranging in length from 4.7” – 21.8” and averaging 8.6”. This survey sampled young-of-the-year walleyes at a low rate of 4.9/mile and yearlings at a rate of 12.0/mile. While these results do not represent the adult population, this indicates that natural reproduction is currently occurring at a rate to sustain the adult walleye population.



Northern Pike Size Groups (PSD/RSD)

Size Class	% of Sample
Quality (> 21 in.)	10
Preferred (> 28 in.)	7
Memorable (> 34 in.)	5

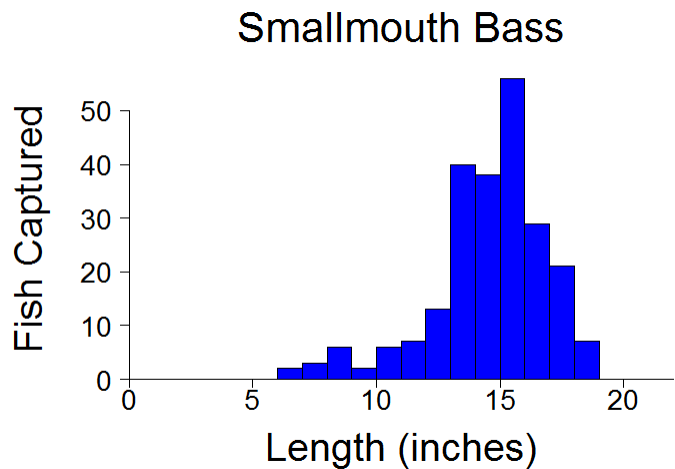


Although northern pike were not targeted during the late-spring electrofishing and early-summer fyke-netting surveys, we sampled pike at a rate of 6.3/mile and 2.0/net-night, respectively. We captured a total of 52 individuals ranging in length from 7.2” – 38.3” and averaging 17.6”. These results indicate that northern pike are currently present in low-moderate densities and while most of the individuals are relatively small, some quality fish are available to anglers.



Smallmouth Size Groups (PSD/RSD)

Size Class	% of Sample
Quality (> 11 in.)	93
Preferred (> 14 in.)	66
Memorable (> 17 in.)	12

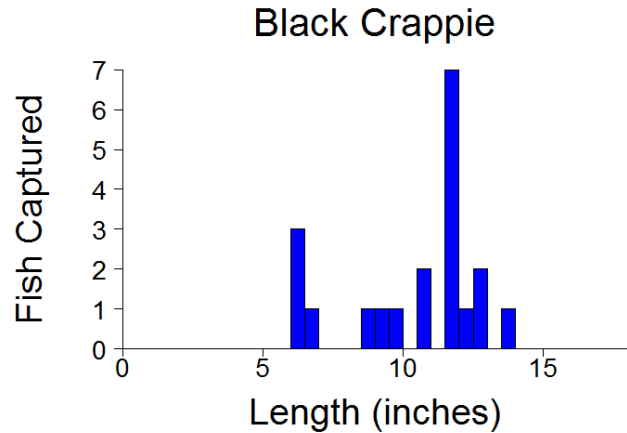


The targeted, late-spring electrofishing survey sampled a total of 227 smallmouth bass at a high rate of 28.4/mile. Smallmouth bass ranged in length from 6.5” – 18.9” and averaged 14.5”. These results indicate that smallmouth bass are present in relatively high abundance and the population exhibits a balanced size structure.



Black Crappie Size Groups (PSD/RSD)

Size Class	% of Sample
Quality (> 8 in.)	80
Preferred (> 10 in.)	65
Memorable (> 12 in.)	20

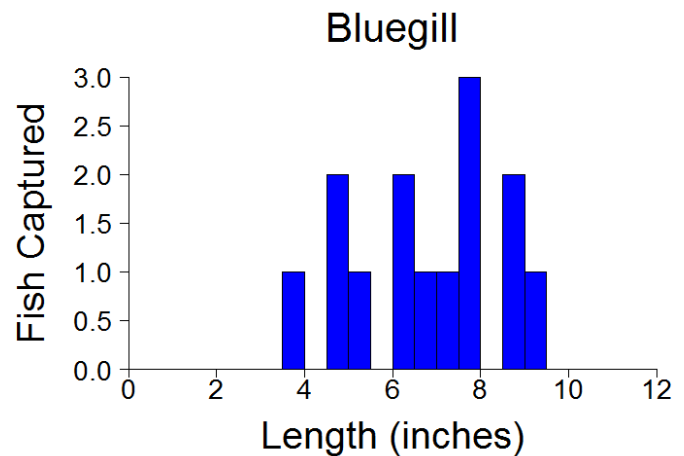


During the late-spring electrofishing and early summer fyke-netting surveys, we sampled black crappies at a rate of 4.0/mile and 1.5/net-night, respectively. A total of 20 black crappies were surveyed ranging in length from 6.0” – 13.5” and averaging 10.7”. These results suggest that black crappies are currently present in low abundance but the population exhibits a quality size structure. The presence of multiple juvenile year classes suggests successful recruitment in recent years, adding balance to the size structure and boding well for the future of the fishery.



Bluegill Size Groups (PSD/RSD)

Size Class	% of Sample
Quality (> 6 in.)	71
Preferred (> 8 in.)	21
Memorable (> 10 in.)	0

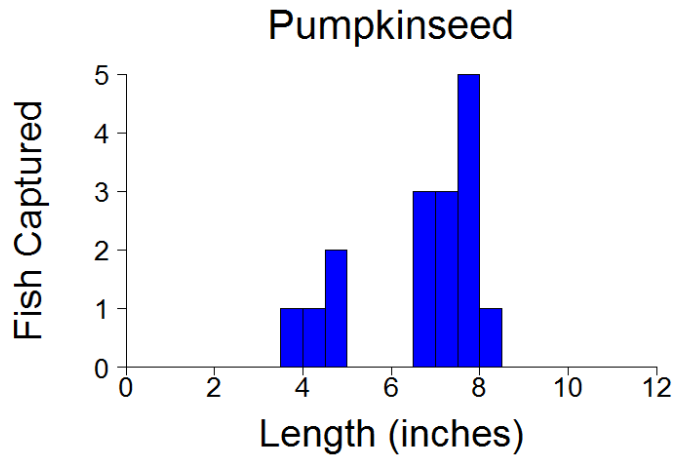


During the late-spring electrofishing and early summer fyke-netting surveys, we sampled bluegills at a rate of 2.0/mile and 1.3/net-night, respectively. A total of 14 bluegills were surveyed ranging in length from 2.7” – 9.1” and averaging 6.5”. These results suggest that bluegills are currently present in low abundance but the population exhibits a quality size structure. The presence of multiple juvenile year classes suggests successful recruitment in recent years, adding balance to the size structure and boding well for the future of the fishery.



Pumpkinseed Size Groups (PSD/RSD)

Size Class	% of Sample
Quality (> 6 in.)	75
Preferred (> 8 in.)	6
Memorable (> 10 in.)	0

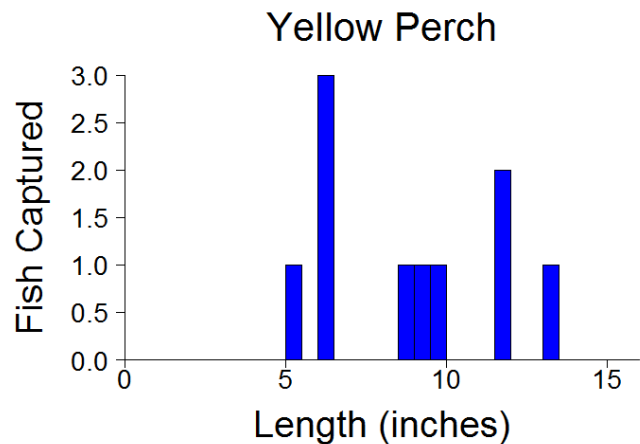


During the late-spring electrofishing and early summer fyke-netting surveys, we sampled pumpkinseeds at a rate of 2.5/mile and 1.4/net-night, respectively. A total of 16 pumpkinseeds were surveyed ranging in length from 3.9” – 8.4” and averaging 6.6”. These results suggest that pumpkinseeds are currently present in low abundance but the population exhibits a quality size structure. The presence of juvenile year classes suggests successful natural recruitment in recent years, adding balance to the size structure.



Yellow Perch Size Groups (PSD/RSD)

Size Class	% of Sample
Quality (> 8 in.)	60
Preferred (> 10 in.)	30
Memorable (> 12 in.)	10



During the late-spring electrofishing and early summer fyke-netting surveys, we sampled yellow perch at a rate of 2.0/mile and 0.3/net-night, respectively. A total of 10 yellow perch were surveyed ranging in length from 5.4” – 13.0” and averaging 8.8”. These results suggest that yellow perch are currently present in low abundance but the population exhibits a balanced size structure.

Additional Notes:

Muskellunge and rock bass were also observed in these surveys. For questions or additional results from 2017 survey work contact:

Zach Lawson

Zachary.Lawson@Wisconsin.gov

Phone: (715) 476-7847

Survey Data Collected By: Wisconsin Department of Natural Resources staff

Analyzed and Report By: Zach Lawson, Fisheries Biologist, Ashland County, 12/5/17



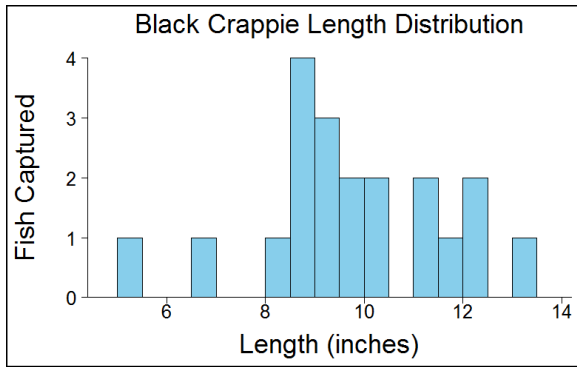
WISCONSIN DNR FISHERIES INFORMATION SHEET

LAKE: GILE FLOWAGE

COUNTY: IRON

YEAR: 2018

Gile Flowage is a 3,128-acre impoundment with stained water and a maximum depth of 25 feet. In 2018, the Wisconsin DNR conducted a summer fyke-netting survey to assess panfish populations.

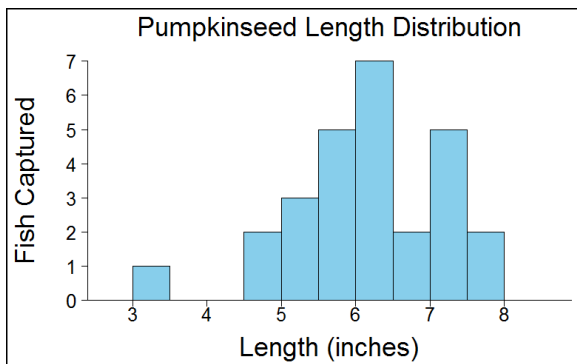
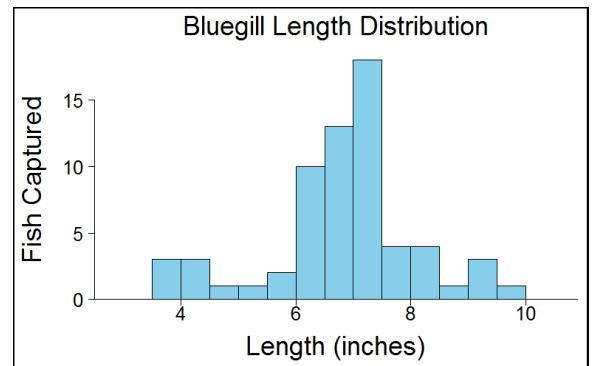


Black Crappie

During a summer fyke-netting survey, crews sampled a total of 20 black crappies at a low rate of 1.1/net-night. Black crappies ranged in length from 5.4"-13.2" and averaged 9.7". These results suggest that black crappies are currently at low densities but the population exhibits a quality size structure.

Bluegill

During a targeted summer fyke-netting survey, crews sampled a total of 64 bluegills at a low rate of 3.6/net-night. Bluegills ranged in length from 3.5"- 9.9" and averaged 6.6". These results suggest that bluegills are currently at low densities but the population exhibits a quality size structure.

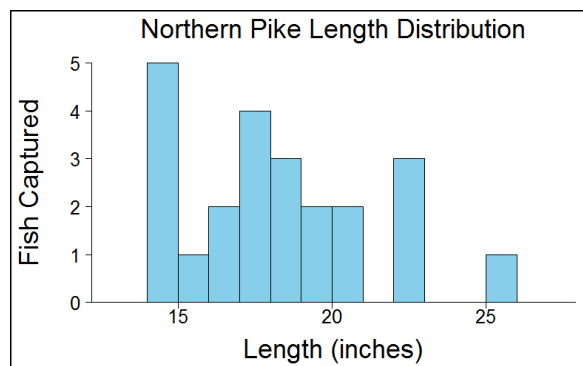
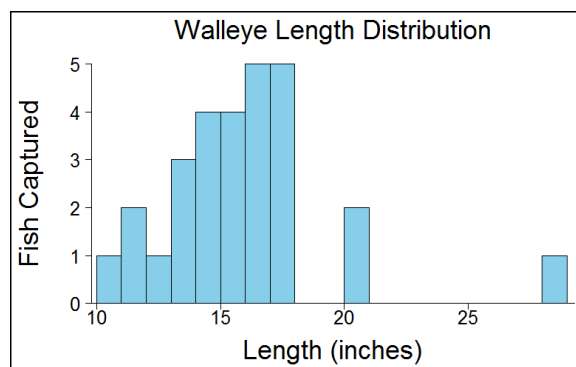


Pumpkinseed

During a targeted summer fyke-netting survey, crews sampled a total of 27 pumpkinseeds at a low rate of 1.5/net-night. Pumpkinseeds ranged in length from 3.4"-7.9" and averaged 6.1". These results suggest that pumpkinseeds are currently at low densities but the population exhibits a quality size structure.

Walleye

During the non-targeted summer fyke-netting survey, crews captured a total of 28 walleyes at a low rate of 1.6/net-night. Walleyes ranged in length from 10.8" - 28.2" and averaged 15.9".



Northern Pike

During the non-targeted summer fyke-netting survey, crews captured a total of 23 northern pike at a low rate of 1.3/net-night. Northern pike ranged in length from 14.3" - 25.9" and averaged 18.1".

For questions or additional information, contact:

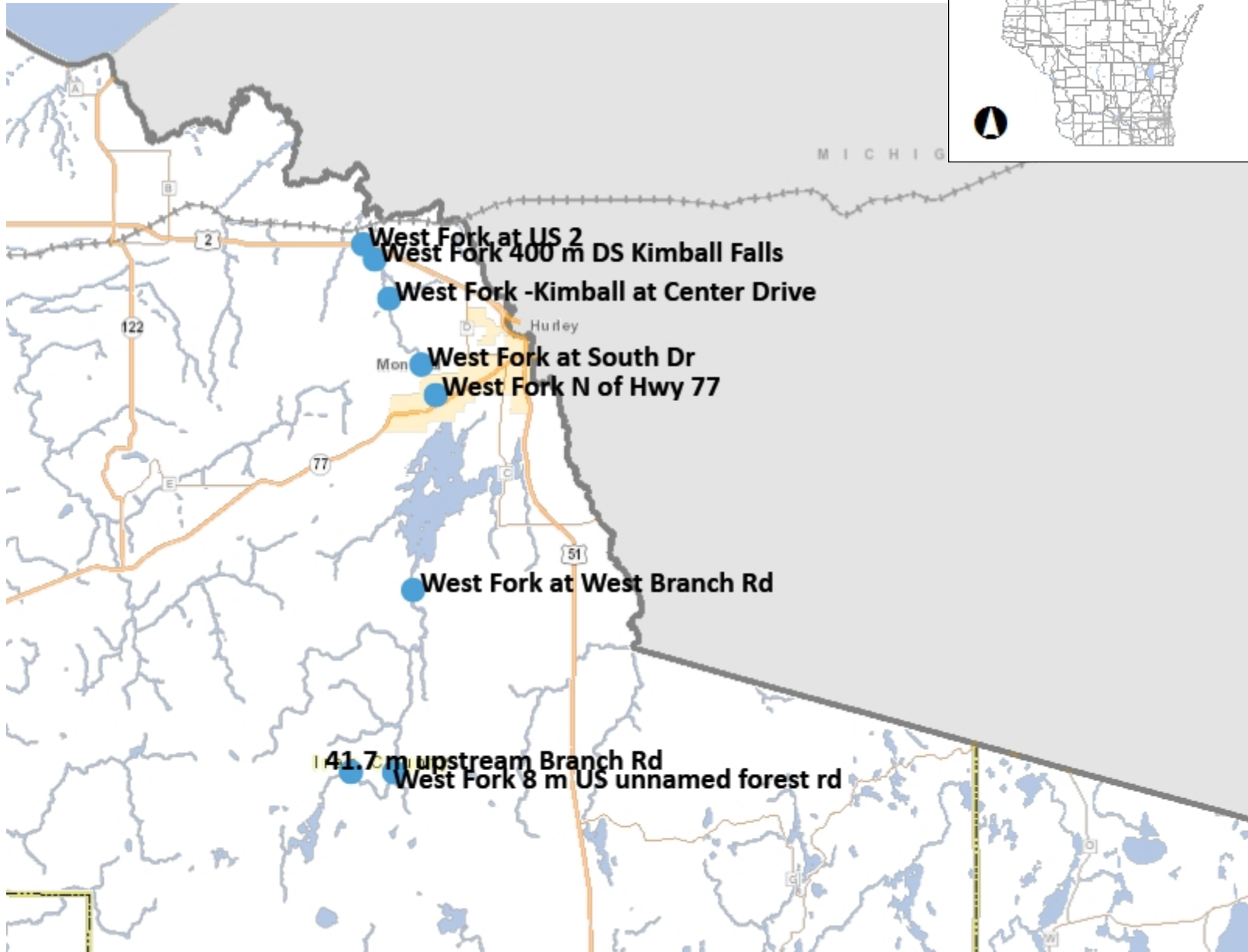
Zach Lawson, Fisheries Biologist Iron/Ashland Counties
Wisconsin Department of Natural Resources
5291 State House Circle
Mercer, WI 54547
(715) 476-7847
Email: Zachary.Lawson@wisconsin.gov

IRON	GILE FLOWAC	2942300	122377	10002736	2018	5.15E+08	FISHERIES ASSESSMEN DATA ENTRY COMPL 005	BLACK BULLHEAD	FYKE NET	1	18	24	432	18	0.06	0.002	-	A1
IRON	GILE FLOWAC	2942300	122377	10002736	2018	5.15E+08	FISHERIES ASSESSMEN DATA ENTRY COMPL W04	ROCK BASS	FYKE NET	23	18	24	432	18	1.28	0.053	-	A1
IRON	GILE FLOWAC	2942300	122377	10002736	2018	5.15E+08	FISHERIES ASSESSMEN DATA ENTRY COMPL W06	PUMPKINSEED	FYKE NET	27	18	24	432	18	1.5	0.063	-	A1
IRON	GILE FLOWAC	2942300	122377	10002736	2018	5.15E+08	FISHERIES ASSESSMEN DATA ENTRY COMPL W09	BLUEGILL	FYKE NET	64	18	24	432	18	3.56	0.148	-	A1
IRON	GILE FLOWAC	2942300	122377	10002736	2018	5.15E+08	FISHERIES ASSESSMEN DATA ENTRY COMPL W11	SMALLMOUTH BASS	FYKE NET	5	18	24	432	18	0.28	0.012	-	A1
IRON	GILE FLOWAC	2942300	122377	10002736	2018	5.15E+08	FISHERIES ASSESSMEN DATA ENTRY COMPL W14	BLACK CRAPPIE	FYKE NET	20	18	24	432	18	1.11	0.046	-	A1
IRON	GILE FLOWAC	2942300	122377	10002736	2018	5.15E+08	FISHERIES ASSESSMEN DATA ENTRY COMPL X15	YELLOW PERCH	FYKE NET	5	18	24	432	18	0.28	0.012	-	A1
IRON	GILE FLOWAC	2942300	122377	10002736	2018	5.15E+08	FISHERIES ASSESSMEN DATA ENTRY COMPL X22	WALLEYE	FYKE NET	28	18	24	432	18	1.56	0.065	-	A1
IRON	GILE FLOWAC	2942300	122377	10002736	2019	5.15E+08	FISHERIES ASSESSMEN DATA ENTRY COMPL L02	NORTHERN PIKE	FYKE NET	20	18	24	432	18	1.11	0.046	-	A1
IRON	GILE FLOWAC	2942300	122377	10002736	2019	5.15E+08	FISHERIES ASSESSMEN DATA ENTRY COMPL L03	MUSKELLUNGE	FYKE NET	2	18	24	432	18	0.11	0.005	-	A1
IRON	GILE FLOWAC	2942300	122377	10002736	2019	5.15E+08	FISHERIES ASSESSMEN DATA ENTRY COMPL N09	WHITE SUCKER	FYKE NET	4	18	24	432	18	0.22	0.009	-	A1
IRON	GILE FLOWAC	2942300	122377	10002736	2019	5.15E+08	FISHERIES ASSESSMEN DATA ENTRY COMPL W04	ROCK BASS	FYKE NET	25	18	24	432	18	1.39	0.058	-	A1
IRON	GILE FLOWAC	2942300	122377	10002736	2019	5.15E+08	FISHERIES ASSESSMEN DATA ENTRY COMPL W06	PUMPKINSEED	FYKE NET	80	18	24	432	18	4.44	0.185	-	A1
IRON	GILE FLOWAC	2942300	122377	10002736	2019	5.15E+08	FISHERIES ASSESSMEN DATA ENTRY COMPL W09	BLUEGILL	FYKE NET	236	18	24	432	18	13.11	0.546	-	A1
IRON	GILE FLOWAC	2942300	122377	10002736	2019	5.15E+08	FISHERIES ASSESSMEN DATA ENTRY COMPL W11	SMALLMOUTH BASS	FYKE NET	6	18	24	432	18	0.33	0.014	-	A1
IRON	GILE FLOWAC	2942300	122377	10002736	2019	5.15E+08	FISHERIES ASSESSMEN DATA ENTRY COMPL W14	BLACK CRAPPIE	FYKE NET	42	18	24	432	18	2.33	0.097	-	A1
IRON	GILE FLOWAC	2942300	122377	10002736	2019	5.15E+08	FISHERIES ASSESSMEN DATA ENTRY COMPL X15	YELLOW PERCH	FYKE NET	15	18	24	432	18	0.83	0.035	-	A1
IRON	GILE FLOWAC	2942300	122377	10002736	2019	5.15E+08	FISHERIES ASSESSMEN DATA ENTRY COMPL X22	WALLEYE	FYKE NET	24	18	24	432	18	1.33	0.056	-	A1

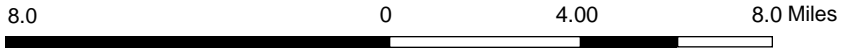
GILE FLOW	2019 GILE FLOWAGE_GENERAL L	10002736	122377	515090238	NETTING	FYKE NET	20-Jun-19 -	PANFISH	13100697	ALL	W09	BLUEGILL	1	8.5 -
GILE FLOW	2019 GILE FLOWAGE_GENERAL L	10002736	122377	515090238	NETTING	FYKE NET	20-Jun-19 -	PANFISH	13100698	ALL	W09	BLUEGILL	1	8.6 -
GILE FLOW	2019 GILE FLOWAGE_GENERAL L	10002736	122377	515090238	NETTING	FYKE NET	20-Jun-19 -	PANFISH	13100699	ALL	W09	BLUEGILL	1	9.3 -
GILE FLOW	2019 GILE FLOWAGE_GENERAL L	10002736	122377	515090238	NETTING	FYKE NET	20-Jun-19 -	PANFISH	13100700	ALL	W09	BLUEGILL	2	9.7 -



West Fork Fish Sampling Locations



- Legend**
- Municipality
 - State Boundaries
 - County Boundaries
 - Major Roads**
 - Interstate Highway
 - State Highway
 - US Highway
 - County and Local Roads**
 - County HWY
 - Local Road
 - Railroads
 - Tribal Lands
 - Rivers and Streams
 - Intermittent Streams
 - Lakes and Open water



NAD_1983_HARN_Wisconsin_TM

1: 253,440

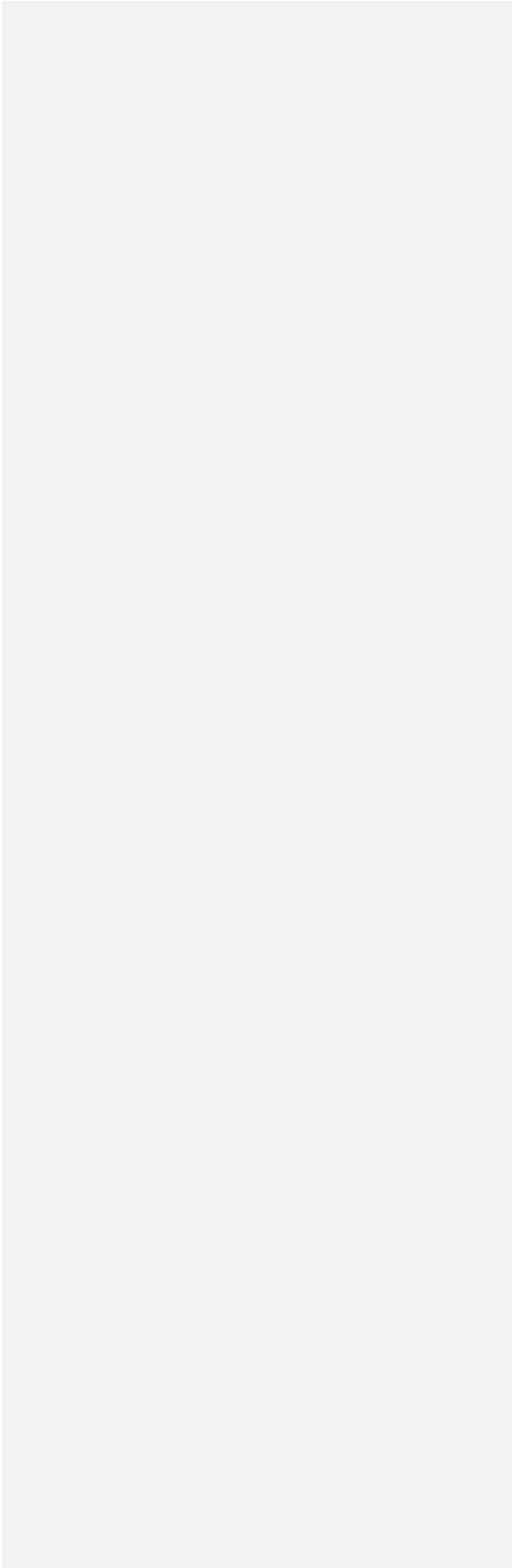
DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wi.gov/legal/>

Notes

WBIC	Station Name	Site Seq No	Swims Stat	Survey Year	Survey Begin Date	Survey End Date	Primary Survey Purpose	Survey Seq No	Gear Type	Species	Number of	Number	Number	Number	CPE Mile	CPE Meter	CPE Hour
											Miles	of Meters	of Hours	of Fish			
2941600	WEST FORI	25583813	10029090	2014	25-Jul-14	25-Jul-14	WATERSHED NATUR.	515076598	BACKPACK SHOCKER	LARGEMOI	0.13	210	0.58	1	7.66	0.01	1.71
2941600	WEST FORI	25583813	10029090	2014	25-Jul-14	25-Jul-14	WATERSHED NATUR.	515076598	BACKPACK SHOCKER	YELLOW PE	0.13	210	0.58	1	7.66	0.01	1.71
2941600	WEST FORI	20660390	10022050	2011	1-Sep-11	1-Sep-11	NATURAL COMMUN	229793209	STREAM SHOCKER	BROOK TR	0.25	400	1.13	11	44.25	0.03	9.71
2941600	WEST FORI	20660371	10022048	2012	13-Aug-12	13-Aug-12	FISHERIES ASSESSME	325380846	STREAM SHOCKER	ROCK BASS	0.5	800	1.55	3	6.03	0	1.94
2941600	WEST FORI	20660371	10022048	2012	13-Aug-12	13-Aug-12	FISHERIES ASSESSME	325380846	STREAM SHOCKER	PUMPKINS	0.5	800	1.55	65	130.73	0.08	41.94
2941600	WEST FORI	20660371	10022048	2012	13-Aug-12	13-Aug-12	FISHERIES ASSESSME	325380846	STREAM SHOCKER	SMALLMOI	0.5	800	1.55	24	48.27	0.03	15.48
2941600	WEST FORI	20660371	10022048	2012	13-Aug-12	13-Aug-12	FISHERIES ASSESSME	325380846	STREAM SHOCKER	YELLOW PE	0.5	800	1.55	12	24.14	0.02	7.74
2941600	WEST FORI	20660371	10022048	2012	13-Aug-12	13-Aug-12	FISHERIES ASSESSME	325380846	STREAM SHOCKER	WALLEYE	0.5	800	1.55	5	10.06	0.01	3.23
2941600	WEST FORI	25583813	10029090	2008	28-Jul-08	6-Aug-08	NATURAL COMMUN	905246	BACKPACK SHOCKER	NORTHERN	0.13	210	1.08	1	7.66	0.01	0.92
2941600	WEST FORI	25583813	10029090	2008	28-Jul-08	6-Aug-08	NATURAL COMMUN	905246	BACKPACK SHOCKER	LARGEMOI	0.13	210	1.08	16	122.59	0.08	14.77
2941600	WEST FORI	25583813	10029090	2008	28-Jul-08	6-Aug-08	NATURAL COMMUN	905246	BACKPACK SHOCKER	YELLOW PE	0.13	210	1.08	1	7.66	0.01	0.92
2941600	West Fork	20660381	10022049	2007	1-Aug-07	1-Aug-07	FISHERIES ASSESSME	97335	STREAM SHOCKER	BROOK TR	0.06	100	1	44	707.97	0.44	44
2941600	WEST FORI	20660390	10022050	2007	6-Aug-07	6-Aug-07	FISHERIES ASSESSME	97339	STREAM SHOCKER	ROCK BASS	0.06	100	1	1	16.09	0.01	1
2941600	WEST FORI	20660390	10022050	2007	6-Aug-07	6-Aug-07	FISHERIES ASSESSME	97339	STREAM SHOCKER	PUMPKINS	0.06	100	1	1	16.09	0.01	1
2941600	WEST FORI	20660390	10022050	2007	6-Aug-07	6-Aug-07	FISHERIES ASSESSME	97339	STREAM SHOCKER	YELLOW PE	0.06	100	1	1	16.09	0.01	1
2941600	West Fork	28470599	10029743	2008	14-Aug-08	14-Aug-08	FISHERIES ASSESSME	8326493	BACKPACK SHOCKER	SMALLMOI	0.17	274.32	0.5	1	5.87	0	2
2941600	West Fork	28470599	10029743	2008	14-Aug-08	14-Aug-08	FISHERIES ASSESSME	8326493	BACKPACK SHOCKER	WALLEYE	0.17	274.32	0.5	1	5.87	0	2
2941600	WEST FORI	20660371	10022048	2007	1-Aug-07	1-Aug-07	FISHERIES ASSESSME	97332	STREAM SHOCKER	PUMPKINS	0.06	100	1	6	96.54	0.06	6
2941600	West Fork	20660381	10022049	2017	15-Sep-17	15-Sep-17	TARGETED WATERSH	515085907	STREAM SHOCKER	BROOK TR	0.25	400	0.92	5	20.11	0.01	5.46
2941600	West Fork	20660381	10022049	2017	15-Sep-17	15-Sep-17	TARGETED WATERSH	515085907	STREAM SHOCKER	YELLOW PE	0.25	400	0.92	1	4.02	0	1.09
2941600	West Fork	28470599	10029743	2017	1-Aug-17	1-Aug-17	TARGETED WATERSH	515085908	STREAM SHOCKER	NORTHERN	0.23	368	0.67	1	4.37	0	1.5
2941600	West Fork	28470599	10029743	2017	1-Aug-17	1-Aug-17	TARGETED WATERSH	515085908	STREAM SHOCKER	SMALLMOI	0.23	368	0.67	1	4.37	0	1.5
2941600	West Fork	28470599	10029743	2017	1-Aug-17	1-Aug-17	TARGETED WATERSH	515085908	STREAM SHOCKER	YELLOW PE	0.23	368	0.67	14	61.21	0.04	21
2941600	West Fork	28470599	10029743	2017	1-Aug-17	1-Aug-17	TARGETED WATERSH	515085908	STREAM SHOCKER	WALLEYE	0.23	368	0.67	1	4.37	0	1.5
2941600	West Moni	39277881	10032133	2017	15-Sep-17	15-Sep-17	TARGETED WATERSH	515085917	STREAM SHOCKER	BROOK TR	0.25	400	0.75	1	4.02	0	1.33
2941600	West Moni	39277881	10032133	2017	15-Sep-17	15-Sep-17	TARGETED WATERSH	515085917	STREAM SHOCKER	YELLOW PE	0.25	400	0.75	2	8.05	0.01	2.67
2941600	West Fork	1507929	10049507	2017	5-Sep-17	5-Sep-17	TARGETED WATERSH	515085918	BACKPACK SHOCKER	YELLOW PE	0.14	225	0.58	13	92.97	0.06	22.29
2941600	West Fork	1507931	10049508	2017	11-Aug-17	11-Aug-17	TARGETED WATERSH	515085919	STREAM SHOCKER	ROCK BASS	0.25	400	1	5	20.11	0.01	5
2941600	West Fork	1507931	10049508	2017	11-Aug-17	11-Aug-17	TARGETED WATERSH	515085919	STREAM SHOCKER	PUMPKINS	0.25	400	1	1	4.02	0	1
2941600	West Fork	1507931	10049508	2017	11-Aug-17	11-Aug-17	TARGETED WATERSH	515085919	STREAM SHOCKER	YELLOW PE	0.25	400	1	8	32.18	0.02	8
2941600	WEST FORI	20660371	10022048	2018	26-Jul-18	26-Jul-18	FISHERIES ASSESSME	515089177	STREAM SHOCKER	SMALLMOI	0.5	800	1.5	14	28.16	0.02	9.33
2941600	WEST FORI	20660371	10022048	2018	26-Jul-18	26-Jul-18	FISHERIES ASSESSME	515089177	STREAM SHOCKER	YELLOW PE	0.5	800	1.5	2	4.02	0	1.33
2941600	WEST FORI	20660371	10022048	2018	26-Jul-18	26-Jul-18	FISHERIES ASSESSME	515089177	STREAM SHOCKER	WALLEYE	0.5	800	1.5	3	6.03	0	2
2941600	West Fork	190758179	10052388	2018	25-Jul-18	25-Jul-18	FISHERIES ASSESSME	515089178	STREAM SHOCKER	SMALLMOI	0.25	400	1	1	4.02	0	1

WEST FORK MONTREAL RIVER - US 2	20660390	10022050	2007	6-Aug-07	6-Aug-07	FISHERIES ASSESSMEI	STREAM SHOCKER	HORNYHEAD CHUB	100	0.062	1	7	112.631	0.07	7	50	4
WEST FORK MONTREAL RIVER - US 2	20660390	10022050	2007	6-Aug-07	6-Aug-07	FISHERIES ASSESSMEI	STREAM SHOCKER	COMMON SHINER	100	0.062	1	4	64.36	0.04	4	50	4
WEST FORK MONTREAL RIVER - US 2	20660390	10022050	2007	6-Aug-07	6-Aug-07	FISHERIES ASSESSMEI	STREAM SHOCKER	ROCK BASS	100	0.062	1	1	16.09	0.01	1	50	4
WEST FORK MONTREAL RIVER - US 2	20660390	10022050	2007	6-Aug-07	6-Aug-07	FISHERIES ASSESSMEI	STREAM SHOCKER	PUMPKINSEED	100	0.062	1	1	16.09	0.01	1	50	4
WEST FORK MONTREAL RIVER - US 2	20660390	10022050	2007	6-Aug-07	6-Aug-07	FISHERIES ASSESSMEI	STREAM SHOCKER	YELLOW PERCH	100	0.062	1	1	16.09	0.01	1	50	4
WEST FORK MONTREAL RIVER - NORTH OF HWY 77	20660371	10022048	2018	26-Jul-18	26-Jul-18	FISHERIES ASSESSMEI	STREAM SHOCKER	BLACKNOSE SHINER	800	0.497	1.5	23	46.259	0.029	15.333	50	4
WEST FORK MONTREAL RIVER - NORTH OF HWY 77	20660371	10022048	2018	26-Jul-18	26-Jul-18	FISHERIES ASSESSMEI	STREAM SHOCKER	LONGNOSE DACE	800	0.497	1.5	234	470.636	0.293	156	50	4
WEST FORK MONTREAL RIVER - NORTH OF HWY 77	20660371	10022048	2018	26-Jul-18	26-Jul-18	FISHERIES ASSESSMEI	STREAM SHOCKER	CREEK CHUB	800	0.497	1.5	79	158.89	0.099	52.667	50	4
WEST FORK MONTREAL RIVER - NORTH OF HWY 77	20660371	10022048	2018	26-Jul-18	26-Jul-18	FISHERIES ASSESSMEI	STREAM SHOCKER	WHITE SUCKER	800	0.497	1.5	46	92.518	0.058	30.667	50	4
WEST FORK MONTREAL RIVER - NORTH OF HWY 77	20660371	10022048	2018	26-Jul-18	26-Jul-18	FISHERIES ASSESSMEI	STREAM SHOCKER	SMALLMOUTH BASS	800	0.497	1.5	14	28.158	0.018	9.333	50	4
WEST FORK MONTREAL RIVER - NORTH OF HWY 77	20660371	10022048	2018	26-Jul-18	26-Jul-18	FISHERIES ASSESSMEI	STREAM SHOCKER	YELLOW PERCH	800	0.497	1.5	2	4.023	0.003	1.333	50	4
WEST FORK MONTREAL RIVER - NORTH OF HWY 77	20660371	10022048	2018	26-Jul-18	26-Jul-18	FISHERIES ASSESSMEI	STREAM SHOCKER	WALLEYE	800	0.497	1.5	3	6.034	0.004	2	50	4
WEST FORK MONTREAL RIVER - NORTH OF HWY 77	20660371	10022048	2018	26-Jul-18	26-Jul-18	FISHERIES ASSESSMEI	STREAM SHOCKER	MOTTLED SCULPIN	800	0.497	1.5	9	18.101	0.011	6	50	4
West Fork Montreal River at West Branch Road	28470599	10029743	2008	14-Aug-08	14-Aug-08	FISHERIES ASSESSMEI	BACKPACK SHOCKER	SMALLMOUTH BASS	274.32	0.17	0.5	1	5.867	0.004	2	50	4
West Fork Montreal River at West Branch Road	28470599	10029743	2008	14-Aug-08	14-Aug-08	FISHERIES ASSESSMEI	BACKPACK SHOCKER	WALLEYE	274.32	0.17	0.5	1	5.867	0.004	2	50	4
West Fork Montreal River - 400 meters downstream Kimball F.	190758179	10052388	2018	25-Jul-18	25-Jul-18	FISHERIES ASSESSMEI	STREAM SHOCKER	COMMON SHINER	400	0.249	1	23	92.518	0.058	23	50	-
West Fork Montreal River - 400 meters downstream Kimball F.	190758179	10052388	2018	25-Jul-18	25-Jul-18	FISHERIES ASSESSMEI	STREAM SHOCKER	LONGNOSE DACE	400	0.249	1	123	494.771	0.308	123	50	-
West Fork Montreal River - 400 meters downstream Kimball F.	190758179	10052388	2018	25-Jul-18	25-Jul-18	FISHERIES ASSESSMEI	STREAM SHOCKER	CREEK CHUB	400	0.249	1	28	112.631	0.07	28	50	-
West Fork Montreal River - 400 meters downstream Kimball F.	190758179	10052388	2018	25-Jul-18	25-Jul-18	FISHERIES ASSESSMEI	STREAM SHOCKER	WHITE SUCKER	400	0.249	1	34	136.766	0.085	34	50	-
West Fork Montreal River - 400 meters downstream Kimball F.	190758179	10052388	2018	25-Jul-18	25-Jul-18	FISHERIES ASSESSMEI	STREAM SHOCKER	SMALLMOUTH BASS	400	0.249	1	1	4.023	0.003	1	50	-
West Fork Montreal River - 400 meters downstream Kimball F.	190758179	10052388	2018	25-Jul-18	25-Jul-18	FISHERIES ASSESSMEI	STREAM SHOCKER	MOTTLED SCULPIN	400	0.249	1	65	261.464	0.163	65	50	-
WEST FORK MONTREAL RIVER - NORTH OF HWY 77	20660371	10022048	2012	13-Aug-12	13-Aug-12	FISHERIES ASSESSMEI	STREAM SHOCKER	HORNYHEAD CHUB	430	0.267	0.817	35	130.966	0.081	42.857	50	4
WEST FORK MONTREAL RIVER - NORTH OF HWY 77	20660371	10022048	2012	13-Aug-12	13-Aug-12	FISHERIES ASSESSMEI	STREAM SHOCKER	COMMON SHINER	430	0.267	0.817	11	41.161	0.026	13.469	50	4
WEST FORK MONTREAL RIVER - NORTH OF HWY 77	20660371	10022048	2012	13-Aug-12	13-Aug-12	FISHERIES ASSESSMEI	STREAM SHOCKER	LONGNOSE DACE	430	0.267	0.817	26	97.289	0.06	31.837	50	4
WEST FORK MONTREAL RIVER - NORTH OF HWY 77	20660371	10022048	2012	13-Aug-12	13-Aug-12	FISHERIES ASSESSMEI	STREAM SHOCKER	CREEK CHUB	430	0.267	0.817	4	14.968	0.009	4.898	50	4
WEST FORK MONTREAL RIVER - NORTH OF HWY 77	20660371	10022048	2012	13-Aug-12	13-Aug-12	FISHERIES ASSESSMEI	STREAM SHOCKER	WHITE SUCKER	430	0.267	0.817	2	7.484	0.005	2.449	50	4
WEST FORK MONTREAL RIVER - NORTH OF HWY 77	20660371	10022048	2012	13-Aug-12	13-Aug-12	FISHERIES ASSESSMEI	STREAM SHOCKER	ROCK BASS	430	0.267	0.817	1	3.742	0.002	1.224	50	4
WEST FORK MONTREAL RIVER - NORTH OF HWY 77	20660371	10022048	2012	13-Aug-12	13-Aug-12	FISHERIES ASSESSMEI	STREAM SHOCKER	PUMPKINSEED	430	0.267	0.817	4	14.968	0.009	4.898	50	4
WEST FORK MONTREAL RIVER - NORTH OF HWY 77	20660371	10022048	2012	13-Aug-12	13-Aug-12	FISHERIES ASSESSMEI	STREAM SHOCKER	SMALLMOUTH BASS	430	0.267	0.817	18	67.354	0.042	22.041	50	4
WEST FORK MONTREAL RIVER - NORTH OF HWY 77	20660371	10022048	2012	13-Aug-12	13-Aug-12	FISHERIES ASSESSMEI	STREAM SHOCKER	YELLOW PERCH	430	0.267	0.817	9	33.677	0.021	11.02	50	4
WEST FORK MONTREAL RIVER - NORTH OF HWY 77	20660371	10022048	2012	13-Aug-12	13-Aug-12	FISHERIES ASSESSMEI	STREAM SHOCKER	WALLEYE	430	0.267	0.817	2	7.484	0.005	2.449	50	4
WEST FORK MONTREAL RIVER - 41.7M UPSTREAM BRANCH RI	25583813	10029090	2014	25-Jul-14	25-Jul-14	WATERSHED NATURA	BACKPACK SHOCKER	CENTRAL MUDMINNO	210	0.131	0.583	2	15.324	0.01	3.429	50	3
WEST FORK MONTREAL RIVER - 41.7M UPSTREAM BRANCH RI	25583813	10029090	2014	25-Jul-14	25-Jul-14	WATERSHED NATURA	BACKPACK SHOCKER	WESTERN BLACKNOSE	210	0.131	0.583	7	53.634	0.033	12	50	3
WEST FORK MONTREAL RIVER - 41.7M UPSTREAM BRANCH RI	25583813	10029090	2014	25-Jul-14	25-Jul-14	WATERSHED NATURA	BACKPACK SHOCKER	CREEK CHUB	210	0.131	0.583	17	130.253	0.081	29.143	50	3
WEST FORK MONTREAL RIVER - 41.7M UPSTREAM BRANCH RI	25583813	10029090	2014	25-Jul-14	25-Jul-14	WATERSHED NATURA	BACKPACK SHOCKER	WHITE SUCKER	210	0.131	0.583	2	15.324	0.01	3.429	50	3
WEST FORK MONTREAL RIVER - 41.7M UPSTREAM BRANCH RI	25583813	10029090	2014	25-Jul-14	25-Jul-14	WATERSHED NATURA	BACKPACK SHOCKER	LARGEMOUTH BASS	210	0.131	0.583	1	7.662	0.005	1.714	50	3
WEST FORK MONTREAL RIVER - 41.7M UPSTREAM BRANCH RI	25583813	10029090	2014	25-Jul-14	25-Jul-14	WATERSHED NATURA	BACKPACK SHOCKER	YELLOW PERCH	210	0.131	0.583	1	7.662	0.005	1.714	50	3

Appendix L – WDNR SWIMS Data



Database Key	Fieldwork S	Project(s)	Lab Accour	Field Samp	Station ID	Station Nar	Monitoring	Monitoring	Monitoring	Description	Result	Units
85829442	7/3/2011	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Water Clarity - Predicted Secchi Depth Derived from Satellite Imagery	11.53382866	FEET		
85829442	7/3/2011	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Satellite derived water clarity greater than max depth of lake	N			
97766816	8/30/2012	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Water Clarity - Predicted Secchi Depth Derived from Satellite Imagery	4.618969934	FEET		
97766816	8/30/2012	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Satellite derived water clarity greater than max depth of lake	N			
97766810	8/7/2012	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Water Clarity - Predicted Secchi Depth Derived from Satellite Imagery	9.565613132	FEET		
97766810	8/7/2012	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Satellite derived water clarity greater than max depth of lake	N			
112634937	9/25/2013	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Satellite derived water clarity greater than max depth of lake	N			
112634937	9/25/2013	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Water Clarity - Predicted Secchi Depth Derived from Satellite Imagery	8.7479897	FEET		
112634943	7/23/2013	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Water Clarity - Predicted Secchi Depth Derived from Satellite Imagery	4.9813199	FEET		
112634943	7/23/2013	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Satellite derived water clarity greater than max depth of lake	N			
128631363	9/28/2014	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Water Clarity - Predicted Secchi Depth Derived from Satellite Imagery	7.674297	FEET		
128631363	9/28/2014	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Satellite derived water clarity greater than max depth of lake	N			
128631357	8/28/2014	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Water Clarity - Predicted Secchi Depth Derived from Satellite Imagery	8.09401	FEET		
128631357	8/28/2014	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Satellite derived water clarity greater than max depth of lake	N			
128631369	7/10/2014	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Satellite derived water clarity greater than max depth of lake	N			
128631369	7/10/2014	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Water Clarity - Predicted Secchi Depth Derived from Satellite Imagery	13.210172	FEET		
143319521	9/15/2015	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Water Clarity - Predicted Secchi Depth Derived from Satellite Imagery	3.759640394	FEET		
143319521	9/15/2015	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Satellite derived water clarity greater than max depth of lake	N			
143319509	9/7/2015	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Water Clarity - Predicted Secchi Depth Derived from Satellite Imagery	5.727593731	FEET		
143319509	9/7/2015	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Satellite derived water clarity greater than max depth of lake	N			
143319527	8/14/2015	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Water Clarity - Predicted Secchi Depth Derived from Satellite Imagery	3.337913273	FEET		
143319527	8/14/2015	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Satellite derived water clarity greater than max depth of lake	N			
143319533	6/27/2015	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Water Clarity - Predicted Secchi Depth Derived from Satellite Imagery	8.536547838	FEET		
143319533	6/27/2015	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Satellite derived water clarity greater than max depth of lake	N			
143319515	6/12/2015	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Water Clarity - Predicted Secchi Depth Derived from Satellite Imagery	10.5814836	FEET		
143319515	6/12/2015	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Satellite derived water clarity greater than max depth of lake	N			
156696733	10/3/2016	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Water Clarity - Predicted Secchi Depth Derived from Satellite Imagery	3.491341414	FEET		
156696733	10/3/2016	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Satellite derived water clarity greater than max depth of lake	N			
156696739	9/2/2016	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Water Clarity - Predicted Secchi Depth Derived from Satellite Imagery	6.615579307	FEET		
156696739	9/2/2016	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Satellite derived water clarity greater than max depth of lake	N			
156696727	8/25/2016	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Water Clarity - Predicted Secchi Depth Derived from Satellite Imagery	7.271588111	FEET		
156696727	8/25/2016	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Satellite derived water clarity greater than max depth of lake	N			
192790294	9/21/2017	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Satellite derived water clarity greater than max depth of lake	N			
192790294	9/21/2017	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Water Clarity - Predicted Secchi Depth Derived from Satellite Imagery	9.452065	FEET		
192790300	9/12/2017	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Water Clarity - Predicted Secchi Depth Derived from Satellite Imagery	6.524213	FEET		
192790300	9/12/2017	Satellite Lake Clarity Monitoring 2l	10002736	Gile Flowa	46.41	-90.18	SWIMS	Satellite derived water clarity greater than max depth of lake	N			

Database #	Fieldwork Start	Fieldwork End	Station Org.	Station ID	WBIC	Waterbody Name	Monitoring Location Latitude	Monitoring Location Longitude	Parameter Type	Description	Result
53178429	7/16/2011 6:15	2011 Wisconsin Loon Population Survey	10002736	Gile Flowage	Gile Flowage	Montreal River	-90.18	46.41	Number of Adult Loons on Lake		9 LOON ADULTS
53178429	7/16/2011 6:15	2011 Wisconsin Loon Population Survey	10002736	Gile Flowage	Gile Flowage	Montreal River	-90.18	46.41	Number of loon chicks on this territory today		0 LOON CHICKS
53178429	7/16/2011 6:15	2011 Wisconsin Loon Population Survey	10002736	Gile Flowage	Gile Flowage	Montreal River	-90.18	46.41	Wind/Water Conditions	Ripples	
53178429	7/16/2011 6:15	2011 Wisconsin Loon Population Survey	10002736	Gile Flowage	Gile Flowage	Montreal River	-90.18	46.41	Cloud Cover	Overcast	
53178429	7/16/2011 6:15	2011 Wisconsin Loon Population Survey	10002736	Gile Flowage	Gile Flowage	Montreal River	-90.18	46.41	Visibility	Good	
53178429	7/16/2011 6:15	2011 Wisconsin Loon Population Survey	10002736	Gile Flowage	Gile Flowage	Montreal River	-90.18	46.41	Method of Observation	Motorboat	
53178429	7/16/2011 6:15	2011 Wisconsin Loon Population Survey	10002736	Gile Flowage	Gile Flowage	Montreal River	-90.18	46.41	Equipment Used	Binoculars	
53178429	7/16/2011 6:15	2011 Wisconsin Loon Population Survey	10002736	Gile Flowage	Gile Flowage	Montreal River	-90.18	46.41	Lake Access - Where did you get on the water or find access to view the lake?	Public Boat Landing	
53178429	7/16/2011 6:15	2011 Wisconsin Loon Population Survey	10002736	Gile Flowage	Gile Flowage	Montreal River	-90.18	46.41	Relevant Lake Access Details	Boat landing on Cty Hwy C east side of flowage.	
53178429	7/16/2011 6:15	2011 Wisconsin Loon Population Survey	10002736	Gile Flowage	Gile Flowage	Montreal River	-90.18	46.41	Did you observe any loons with leg bands?	NO	

155575660	6/25/2018 10:00	Citizen Lake Monitoring - V Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	TEMPERATURE FIELD	68	DEGREES F	24 Feet
184803536	8/14/2019 10:00	Citizen Lake Monitoring - V Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	CHLOROPHYLL A, FLUORESCENCE (WELSCI	13.2	ug/L	
184803536	8/14/2019 10:00	Citizen Lake Monitoring - V Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	PHOSPHORUS TOTAL	0.0371	MG/L	
185759192	8/14/2019 10:00	Citizen Lake Monitoring - V Gile Flowage - Deep Hole	46.39907	-90.22495	<no data>	<no data>	<no data>	<no data>	<no data>
185759122	8/14/2019 10:00	Citizen Lake Monitoring - V Gile Flowage - Deep Hole	46.39907	-90.22495	<no data>	<no data>	<no data>	<no data>	<no data>
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	CALCIUM TOTAL RECOVERABLE	7.2	MG/L	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	CHLOROPHYLL A, FLUORESCENCE (WELSCI	*18.5	UG/L	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	CONDUCTIVITY, UMHOS/CM @ 25C	56	US/CM	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	PH LAB	7.22	SU	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	ALKALINITY TOTAL CACO3	21	MG/L	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	DIG TOTAL REC SW846 3005A	COMPLETE		
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	MAGNESIUM TOTAL RECOVERABLE	1.9	MG/L	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	MANGANESE, TOTAL RECOVERABLE	31.3	UG/L	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	NITROGEN NO3+NO2 DISS (AS N)	ND	MG/L	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	NITROGEN KJELDAHL TOTAL	*0.95	MG/L	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	PHOSPHORUS TOTAL	0.03	MG/L	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	TEMPERATURE AT LAB	ICED	C	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	SAMPLE SIZE LITERS	990	ML	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	TEMPERATURE FIELD	25.1	C	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	AMBIENT AIR TEMPERATURE - FIELD	26.4	C	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	DISSOLVED OXYGEN FIELD	7.37	MG/L	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	SECCHI DEPTH - FEET	4	FT	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	SECCHI DEPTH HIT BOTTOM	NO	Y/N	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	CLOUD COVER	95	%	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	SECCHI DEPTH - FEET	4	FEET	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	SECCHI DEPTH HIT BOTTOM	NO		
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	CLOUD COVER	95	%	
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	TEMPERATURE FIELD	25.1	DEGREES C	0 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	DISSOLVED OXYGEN FIELD	7.39	MG/L	0 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	OXYGEN, DISSOLVED, PERCENT OF SATUR.	95.3	%	0 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	TEMPERATURE FIELD	25.2	DEGREES C	.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	DISSOLVED OXYGEN FIELD	7.37	MG/L	.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	OXYGEN, DISSOLVED, PERCENT OF SATUR.	95.2	%	.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	TEMPERATURE FIELD	25.2	DEGREES C	1 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	DISSOLVED OXYGEN FIELD	7.28	MG/L	1 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	OXYGEN, DISSOLVED, PERCENT OF SATUR.	94.1	%	1 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	TEMPERATURE FIELD	25.1	DEGREES C	1.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	DISSOLVED OXYGEN FIELD	7.16	MG/L	1.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	OXYGEN, DISSOLVED, PERCENT OF SATUR.	92.5	%	1.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	TEMPERATURE FIELD	25	DEGREES C	2 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	DISSOLVED OXYGEN FIELD	7.04	MG/L	2 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	OXYGEN, DISSOLVED, PERCENT OF SATUR.	90.7	%	2 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	TEMPERATURE FIELD	25	DEGREES C	2.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	DISSOLVED OXYGEN FIELD	7.01	MG/L	2.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	OXYGEN, DISSOLVED, PERCENT OF SATUR.	90.4	%	2.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	TEMPERATURE FIELD	25	DEGREES C	3 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	DISSOLVED OXYGEN FIELD	7.02	MG/L	3 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	OXYGEN, DISSOLVED, PERCENT OF SATUR.	90.5	%	3 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	TEMPERATURE FIELD	25	DEGREES C	3.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	DISSOLVED OXYGEN FIELD	7	MG/L	3.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	OXYGEN, DISSOLVED, PERCENT OF SATUR.	90.2	%	3.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	TEMPERATURE FIELD	25	DEGREES C	4 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	DISSOLVED OXYGEN FIELD	7	MG/L	4 Meters

66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	OXYGEN, DISSOLVED, PERCENT OF SATUR.	90.2	%	4 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	TEMPERATURE FIELD	25	DEGREES C	4.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	DISSOLVED OXYGEN FIELD	7.01	MG/L	4.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	OXYGEN, DISSOLVED, PERCENT OF SATUR.	90.3	%	4.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	TEMPERATURE FIELD	25	DEGREES C	5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	DISSOLVED OXYGEN FIELD	7	MG/L	5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	OXYGEN, DISSOLVED, PERCENT OF SATUR.	90.2	%	5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	TEMPERATURE FIELD	25	DEGREES C	5.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	DISSOLVED OXYGEN FIELD	7.01	MG/L	5.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	OXYGEN, DISSOLVED, PERCENT OF SATUR.	90.3	%	5.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	TEMPERATURE FIELD	25	DEGREES C	6 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	DISSOLVED OXYGEN FIELD	6.96	MG/L	6 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	OXYGEN, DISSOLVED, PERCENT OF SATUR.	89.7	%	6 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	TEMPERATURE FIELD	25	DEGREES C	6.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	DISSOLVED OXYGEN FIELD	6.64	MG/L	6.5 Meters
66804158	7/26/2012 13:00	FRIENDS OF THE GILE FLOV Gile Flowage - Deep Hole	46.39907	-90.22495	DNR_STORET	OXYGEN, DISSOLVED, PERCENT OF SATUR.	85.4	%	6.5 Meters

Database Key	Fieldwork Start	Project(s)	Station Name	Monitoring	Monitoring	Parameter Type	Description	Result	Units
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	Total Paid Hours Spent	30.75	HOURS
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	Did at least some data collectors monitor in July?	Yes	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	Did at least some data collectors monitor in August?	Yes	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	Did you monitor all Beaches and Boat Landings?	Frequently/Yes	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	Did you monitor perimeter of Whole Lake?	Frequently/Yes	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	Did you monitor docks and piers?	Frequently/Yes	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	Did you monitor other locations?	surveyed all islands and dikes	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	Did you walk along the shoreline?	Some of the Time	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	Did you observe entire shallow water area?	Frequently/Yes	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	Did you use rake to extract plant samples?	Frequently/Yes	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	Did you check underwater solid surfaces (boat hulls, dock l	Some of the Time	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	Other ways of observing	checked submerged rocks, cement, gravel	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	Banded Mystery Snail	Yes	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	Chinese Mystery Snail	Yes	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	CURLY-LEAF PONDWEED	No	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	EURASIAN WATERMILFOIL (MYRIOPHYLLUM SPICATUM L.)	No	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	FISHHOOK WATER FLEA	No	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	Freshwater Jellyfish	No	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	Hydrilla (Hydrilla verticillata)	No	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	Purple loosestrife (Lythrum salicaria)	No	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	Rusty Crayfish (Orconectes rusticus)	No	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	SPINY WATER FLEA	No	
49924518	7/28/2011	AIS Monitoring - Iron County Land & Water	Gile Flowage	46.41	-90.18	SWIMS	ZEBRA MUSSEL, ADULT	No	
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Water Flea Tow Method	oblique tows (thermocline to surface)	
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Diameter of zooplankton net opening	50	CM
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Site 1 - Latitude	46.37156	
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Site 1 - Longitude	-90.24216	
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Site 1 - Secchi Depth	3.5	FEET
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Site 1 - Number of net tows	3	TOWS
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Site 2 - Latitude	46.39981	
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Site 2 - Longitude	-90.22675	
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Site 2 - Secchi Depth	4.25	FEET
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Site 2 - Number of net tows	2	TOWS
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Site 3 - Latitude	46.40589	
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Site 3 - Longitude	-90.2263	
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Site 3 - Secchi Depth	3.5	FEET
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Site 3 - Number of net tows	2	TOWS
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Have you consolidated all of your samples into one compos	No	
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Did you find what you suspect are Spiny Water Fleas in this	Yes	
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Did you find what you suspect are Fishhook Water Fleas in	No	
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Volume of sample that was analyzed (ml)	10	ML
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Date sample was analyzed	11/28/2018	
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Name of plankton sample analyst	Shelby Kail	
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	SPINY WATER FLEA	Yes	
185752694	9/11/2018 14:30	Aquatic Invasive Species Early Detection 201	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	FISHHOOK WATER FLEA	No	
69127177	8/27/2012 10:30	Baseline Statewide Monitoring - Aquatic Inv	Gile Flowage	46.41	-90.18	SWIMS	Did you snorkel the search sites?	YES	
69127177	8/27/2012 10:30	Baseline Statewide Monitoring - Aquatic Inv	Gile Flowage	46.41	-90.18	SWIMS	Other Reasons for Not Snorkeling	Hindsight, snorkeling (once snail was found) was futile. Poor visibility. Secchi approx. <2ft.	
69127177	8/27/2012 10:30	Baseline Statewide Monitoring - Aquatic Inv	Gile Flowage	46.41	-90.18	SWIMS	Did you look for purple loosestrife?	Yes	
69127177	8/27/2012 10:30	Baseline Statewide Monitoring - Aquatic Inv	Gile Flowage	46.41	-90.18	SWIMS	Did you look for Phragmites?	Yes	
69127177	8/27/2012 10:30	Baseline Statewide Monitoring - Aquatic Inv	Gile Flowage	46.41	-90.18	SWIMS	Did you look for Flowering Rush?	Yes	
69127177	8/27/2012 10:30	Baseline Statewide Monitoring - Aquatic Inv	Gile Flowage	46.41	-90.18	SWIMS	Did you look for Hydrilla?	Yes	
69127177	8/27/2012 10:30	Baseline Statewide Monitoring - Aquatic Inv	Gile Flowage	46.41	-90.18	SWIMS	Did you look for Brazilian waterweed?	Yes	
69127177	8/27/2012 10:30	Baseline Statewide Monitoring - Aquatic Inv	Gile Flowage	46.41	-90.18	SWIMS	Did you look for Eurasian Water-Milfoil?	Yes	
69127177	8/27/2012 10:30	Baseline Statewide Monitoring - Aquatic Inv	Gile Flowage	46.41	-90.18	SWIMS	Did you look for Curly-Leaf Pondweed?	Yes	
69127177	8/27/2012 10:30	Baseline Statewide Monitoring - Aquatic Inv	Gile Flowage	46.41	-90.18	SWIMS	Did you look for Yellow Floating Heart?	Yes	
69127177	8/27/2012 10:30	Baseline Statewide Monitoring - Aquatic Inv	Gile Flowage	46.41	-90.18	SWIMS	Did you look for Quagga Mussels?	Yes	

84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Longitude of sample	-90.22901	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Longitude of sample	-90.22552	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Did you look for Chinese mystery snails?	Yes	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Did you look for Phragmites?	Yes	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Did you look for Hydrilla?	Yes	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Additional Comments about Aquatic Invasives Monitoring	sucker hole boat landing = BL1	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Additional Comments about Aquatic Invasives Monitoring	smartweed = density 2	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Additional Comments about Aquatic Invasives Monitoring	reed canary grass rims bay = density 2	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Additional Comments about Aquatic Invasives Monitoring	upland suspicious locust or young Mt. Ash?	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Additional Comments about Aquatic Invasives Monitoring	Morgando's campground (backyard beach)	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Additional Comments about Aquatic Invasives Monitoring	GMile's bay, found fresh water	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Additional Comments about Aquatic Invasives Monitoring	sponge	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Total Volunteer Hours Spent	54	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Did you look for purple loosestrife?	Yes	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Did you look for Flowering Rush?	Yes	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Did you look for Brazilian waterweed?	Yes	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Did you look for Eurasian Water-Milfoil?	Yes	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Did you look for Curly-Leaf Pondweed?	Yes	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Did you look for Zebra Mussels?	Yes	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Did you look for New Zealand Mudsnails?	Yes	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Did you look for Red Swamp Crayfish?	Yes	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Did you look for Faucet Snails?	Yes	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Did you look for Banded mystery snails?	Yes	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Site Number	Boat Landing 1	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Site Number	Meander Survey 1	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Site Number	Meander Survey 2	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Site Number	Meander Survey 3	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Site Number	Meander Survey 4	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Site Number	Meander Survey 5	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Site Number	Meander Survey 6	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Site Number	Meander Survey 7	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Site Number	Meander Survey 8	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Site Number	Search Site 1	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Site Number	Meander Survey 9	
84673861	8/27/2013 11:30	Baseline Statewide Monitoring - Aquatic Inv Gile Flowage	46.41	-90.18	SWIMS	Did you look for Yellow Floating Heart?	Yes	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Total Volunteer Hours Spent	4.5	HOURS
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did at least some data collectors monitor in May?	No	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did at least some data collectors monitor in June?	No	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did at least some data collectors monitor in July?	Yes	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did at least some data collectors monitor in August?	No	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you monitor all Beaches and Boat Landings?	Frequently/Yes	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you monitor docks and piers?	Frequently/Yes	
							surveyed roadsides from Hwy. C around Island Lake Rd, and Spring Camp Road which covers access to the Gile Flowage.	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you monitor other locations?	Frequently/Yes	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you walk along the shoreline?	Frequently/Yes	
							Driving the roads and looking for loosestrife in ditches.	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Other ways of observing	loosestrife in ditches.	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Banded Mystery Snail	Didn't Look For	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Chinese Mystery Snail	Didn't Look For	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	CURLY-LEAF PONDWEED	Didn't Look For	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	EURASIAN WATERMILFOIL (MYRIOPHYLLUM SPICATUM L.)	Didn't Look For	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	FISHHOOK WATER FLEA	Didn't Look For	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Freshwater Jellyfish	Didn't Look For	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Hydrilla (Hydrilla verticillata)	Didn't Look For	

258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Purple loosestrife (Lythrum salicaria)	Yes	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Rusty Crayfish (Orconectes rusticus)	Didn't Look For	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	SPINY WATER FLEA	Didn't Look For	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	ZEBRA MUSSEL, ADULT	Didn't Look For	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you find another invasive species?	Didn't Look For	
							One purple loosestrife plants was found near the intersection of Spring Camp Rd. and Hogsback Rd. This plant was removed by me. I have found this growing in this location in other years and removed it	
258534310	8/7/2020 14:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Other invasive species found	when seen.	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Total Volunteer Hours Spent	9.5	HOURS
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did at least some data collectors monitor in May?	No	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did at least some data collectors monitor in June?	No	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did at least some data collectors monitor in July?	Yes	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did at least some data collectors monitor in August?	Yes	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you monitor all Beaches and Boat Landings?	Frequently/Yes	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you monitor perimeter of Whole Lake?	Not Often/No	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you monitor docks and piers?	Not Often/No	
							Looking for purple loosestrife along roadsides around Gile	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you monitor other locations?	Flowage.	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you walk along the shoreline?	Frequently/Yes	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you observe entire shallow water area?	Some of the Time	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you use rake to extract plant samples?	Not Often/No	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you check underwater solid surfaces (boat hulls, dock l	Not Often/No	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Other ways of observing		
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Banded Mystery Snail	No	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Chinese Mystery Snail	Yes	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	CURLY-LEAF PONDWEED	Didn't Look For	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	EURASIAN WATERMILFOIL (MYRIOPHYLLUM SPICATUM L.)	Didn't Look For	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	FISHHOOK WATER FLEA	Didn't Look For	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Freshwater Jellyfish	Didn't Look For	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Hydrilla (Hydrilla verticillata)	No	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Purple loosestrife (Lythrum salicaria)	No	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Rusty Crayfish (Orconectes rusticus)	No	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	SPINY WATER FLEA	Didn't Look For	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	ZEBRA MUSSEL, ADULT	Didn't Look For	
124398798	7/10/2015	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Other invasive species found		
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Total Volunteer Hours Spent	40	HOURS
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did at least some data collectors monitor in May?	Yes	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did at least some data collectors monitor in June?	Yes	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did at least some data collectors monitor in July?	Yes	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did at least some data collectors monitor in August?	Yes	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you monitor all Beaches and Boat Landings?	Frequently/Yes	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you monitor perimeter of Whole Lake?	Not Often/No	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you monitor docks and piers?	Frequently/Yes	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you walk along the shoreline?	Frequently/Yes	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you observe entire shallow water area?	Frequently/Yes	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you use rake to extract plant samples?	Not Often/No	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Did you check underwater solid surfaces (boat hulls, dock l	Not Often/No	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Banded Mystery Snail	Yes	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Chinese Mystery Snail	Yes	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	CURLY-LEAF PONDWEED	Didn't Look For	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	EURASIAN WATERMILFOIL (MYRIOPHYLLUM SPICATUM L.)	Didn't Look For	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	FISHHOOK WATER FLEA	No	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Freshwater Jellyfish	No	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Hydrilla (Hydrilla verticillata)	No	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Purple loosestrife (Lythrum salicaria)	No	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SWIMS	Rusty Crayfish (Orconectes rusticus)	No	

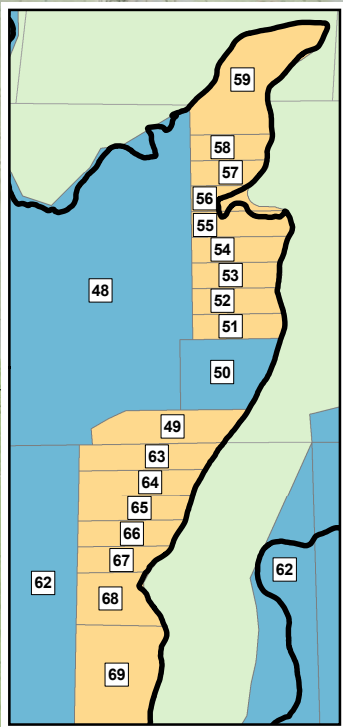
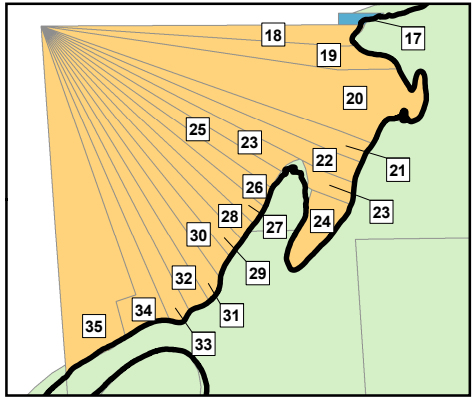
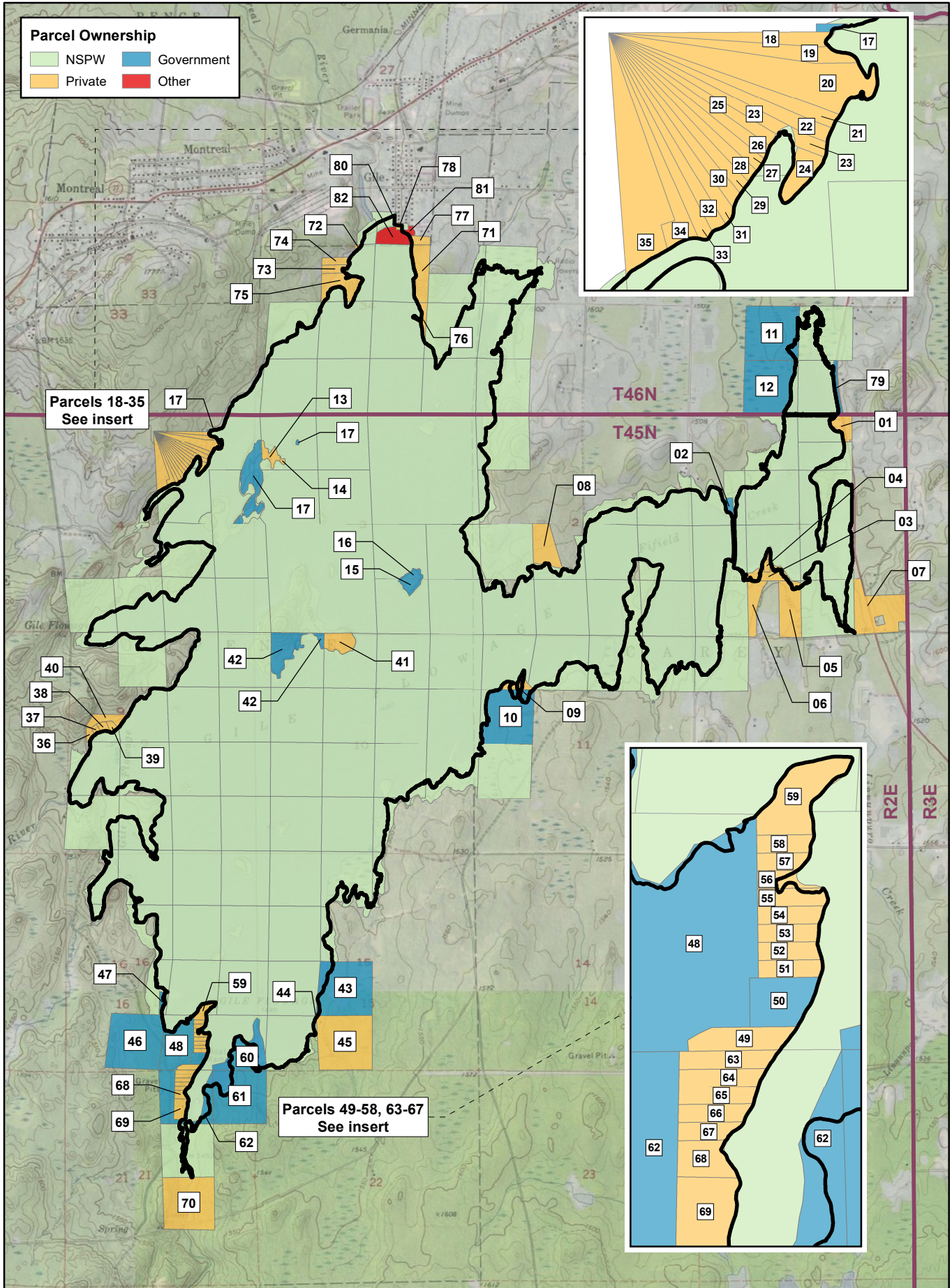
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SPINY WATER FLEA	No	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	ZEBRA MUSSEL, ADULT	Didn't Look For	
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did you find another invasive species?	No	look for hydrilla when fishing
84447662	6/1/2013 16:00	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Other ways of observing	from boat on Gile.	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Total Volunteer Hours Spent	6	HOURS
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did at least some data collectors monitor in May?	Yes	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did at least some data collectors monitor in June?	Yes	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did at least some data collectors monitor in July?	Yes	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did at least some data collectors monitor in August?	Yes	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did you monitor all Beaches and Boat Landings?	Frequently/Yes	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did you monitor perimeter of Whole Lake?	Not Often/No	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did you monitor docks and piers?	Frequently/Yes	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did you walk along the shoreline?	Frequently/Yes	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did you observe entire shallow water area?	Frequently/Yes	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did you use rake to extract plant samples?	Not Often/No	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did you check underwater solid surfaces (boat hulls, dock l	Some of the Time	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Banded Mystery Snail	Didn't Look For	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Chinese Mystery Snail	Yes	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	CURLY-LEAF PONDWEED	Didn't Look For	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	EURASIAN WATERMILFOIL (MYRIOPHYLLUM SPICATUM L.)	Didn't Look For	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	FISHHOOK WATER FLEA	Didn't Look For	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Freshwater Jellyfish	Didn't Look For	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Hydrilla (Hydrilla verticillata)	No	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Purple loosestrife (Lythrum salicaria)	No	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Rusty Crayfish (Orconectes rusticus)	No	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SPINY WATER FLEA	Didn't Look For	
60362724	5/23/2011	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	ZEBRA MUSSEL, ADULT	Didn't Look For	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Total Volunteer Hours Spent	5	HOURS
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did at least some data collectors monitor in May?	No	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did at least some data collectors monitor in June?	No	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did at least some data collectors monitor in July?	Yes	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did at least some data collectors monitor in August?	Yes	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did you monitor all Beaches and Boat Landings?	Frequently/Yes	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did you monitor perimeter of Whole Lake?	Some of the Time	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did you monitor docks and piers?	Frequently/Yes	County C landing, Pence landing,
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did you monitor other locations?	Sucker Hole landing	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did you walk along the shoreline?	Frequently/Yes	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did you observe entire shallow water area?	Some of the Time	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did you use rake to extract plant samples?	Not Often/No	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did you check underwater solid surfaces (boat hulls, dock l	Not Often/No	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Other ways of observing	Rode roads encircling the Gile Flowage checking for purple loosestrife and other possible	invasive plants.
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Banded Mystery Snail	Yes	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Chinese Mystery Snail	Yes	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	CURLY-LEAF PONDWEED	Didn't Look For	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	EURASIAN WATERMILFOIL (MYRIOPHYLLUM SPICATUM L.)	Didn't Look For	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	FISHHOOK WATER FLEA	Didn't Look For	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Freshwater Jellyfish	Didn't Look For	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Hydrilla (Hydrilla verticillata)	No	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Purple loosestrife (Lythrum salicaria)	Yes	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Rusty Crayfish (Orconectes rusticus)	No	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	SPINY WATER FLEA	No	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	ZEBRA MUSSEL, ADULT	Didn't Look For	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Did you find another invasive species?	Didn't Look For	
178700868	7/25/2018	Citizen Aquatic Invasives Monitoring - Gile F Gile Flowage	46.41	-90.18	Other invasive species found	knapweed	
202091562	7/28/2019 6:00	Clean Boats, Clean Waters - Iron County Lan Gile Flowage -- Boat Access	46.3706	-90.2433	Waterbody Name Boat Last Visited (1)	Pike Chain	
202091562	7/28/2019 6:00	Clean Boats, Clean Waters - Iron County Lan Gile Flowage -- Boat Access	46.3706	-90.2433	County Boat Last Visited (1)	Bayfield County	
202091562	7/28/2019 6:00	Clean Boats, Clean Waters - Iron County Lan Gile Flowage -- Boat Access	46.3706	-90.2433	WBC Boat Last Visited (1)	0	

216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Boat was entering landing	6
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Boat was leaving landing	1
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Have you been contacted by a watercraft inspector this sea	3
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Have you been contacted by a watercraft inspector this sea	4
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Are you willing to answer a few questions? - Yes	7
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Are you willing to answer a few questions? - No	0
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Was boat used during past 5 days on diff wbody? - Yes	1
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Was boat used during past 5 days on diff wbody? - No	6
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Was boat used during past 5 days on diff wbody? - Don't Kr	0
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Last time boating - did you inspect boat, trailer and equipm	5
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Last time boating - did you remove attached plants and ani	3
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Last time boating - did you remove attached plants and ani	2
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	After last use did you drain all water from boat and equipm	4
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	After last use did you drain all water from fish and livewell?	3
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	After last use did you drain all water from fish and livewell?	1
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	After last use did you dispose of bait? - Yes	0
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	After last use did you dispose of bait? - N/A	5
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Last time boating - Took no prevention steps	2
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Prevention Steps - Did Not Ask Question	0
216242861	7/28/2019 6:00	Clean Boats, Clean Waters Boater Behavior	Gile Flowage -- Boat Access	46.3706	-90.2433	SWIMS	Number of People Contacted	15

**Appendix M – Ownership and Flowage Right Status of
Parcels Within or Adjacent to Proposed
Project Boundary**

Parcel Ownership

NSPW	Government
Private	Other

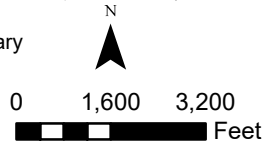


\\cop.meadhunt.com\share\refodena\emp\240010001563539.01\TECH\Gile_Maps\Gile_Ownership_Within_Adjacent_Map.mxd

Service Layer Credits: Wisconsin Land Information Program, Statewide Parcel Map Initiative, Version 6 Statewide Parcel Map Database, Iron County, 2020, ESRI



- Proposed Project Boundary
- Township Range
- Parcel Boundary

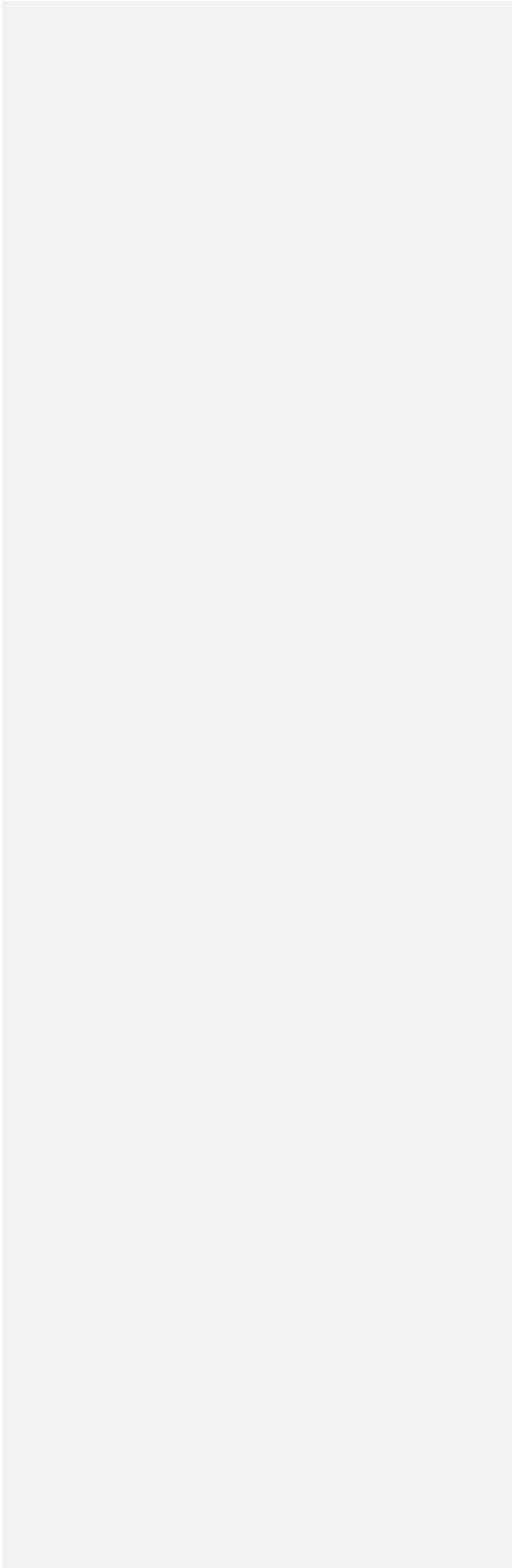


**Gile Flowage Storage Reservoir Project
Ownership of Parcels Within or Directly
Adjacent to Proposed Project Boundary**

FERC No. 15055

Map Parce	Map Parcel Ownership	Iron County Parcel ID	Owner	Owner Mailing Address	Parcel Municipality	Parcel Zip Code	Parcel State	Flowage Right to Elevation (ft NGVD)
1	PRIVATE	004-0207-0000	RAY KUULA	308 W AYER ST, IRONWOOD, WI 49938-0000	TOWN OF CAREY	54534 WI		1491
2	GOVERNMENT	004-0216-0100	IRON COUNTY	300 TACONITE ST, HURLEY, WI 54534-0000	TOWN OF CAREY	54534 WI		1500
3	PRIVATE	004-0219-0000	BLUEBERRY RIDGE ENT LLC	11827N POINT ROAD, HURLEY, WI 54534-0000	TOWN OF CAREY	54534 WI		1495
4	PRIVATE	004-0219-0100	BLUEBERRY RIDGE ENT LLC	11827N POINT ROAD, HURLEY, WI 54534-0000	TOWN OF CAREY	54534 WI		1495
5	PRIVATE	004-0222-0000	SCOTT E LINDEMANN	P O BOX 302, WINDSOR, WI 53539	TOWN OF CAREY	54534 WI		1495
6	PRIVATE	004-0224-0000	BLUEBERRY RIDGE ENT LLC	11827N POINT ROAD, HURLEY, WI 54534-0000	TOWN OF CAREY	54534 WI		1495
7	PRIVATE	004-0228-0000	COLLEEN M PAULSON	7217W ISLAND LAKE ROAD, HURLEY, WI 54534-9221	TOWN OF CAREY	54534 WI		land
8	PRIVATE	004-0244-0100	JOANN LYTLE	N8901 FROLAND RD, IOLA, WI 54945-0000	TOWN OF CAREY	54534 WI		1495
9	PRIVATE	004-0266-0000	ANGELO LUPPINO INC	BOX 34, IRON BELT, WI 54536-0000	TOWN OF CAREY	54534 WI		1495
10	GOVERNMENT	004-0267-0000	TOWN OF CAREY	12005N HAKALA RD, HURLEY, WI 54534-0000	TOWN OF CAREY	54534 WI		1495
11	GOVERNMENT	004-0432-0000	HURLEY SCHOOL DISTRICT #1	5503 W. RANGEVIEW DR, HURLEY, WI 54534	TOWN OF CAREY	54534 WI		1495
12	GOVERNMENT	004-0437-0000	HURLEY SCHOOL DISTRICT #1	5503 W. RANGEVIEW DR, HURLEY, WI 54534	TOWN OF CAREY	54534 WI		1495
13	PRIVATE	016-0016-0000	STEPHEN C GARBACZ	T5098 GRANITE ROAD, WAUSAU, WI 54403-9465	TOWN OF PENCE	54550 WI		1500
14	PRIVATE	016-0016-0100	STEPHEN C GARBACZ	T5098 GRANITE ROAD, WAUSAU, WI 54403-9465	TOWN OF PENCE	54550 WI		1500
15	GOVERNMENT	016-0022-0000	IRON COUNTY	300 TACONITE ST, HURLEY, WI 54534-0000	TOWN OF PENCE	54550 WI		1495
16	GOVERNMENT	016-0024-0000	STATE OF WISCONSIN BOARD OF COMMISSIONERS OF PUBLIC LANDS	101 E WILSON ST, MADISON, WI 53708-8943	TOWN OF PENCE	54550 WI		1495
17	GOVERNMENT	016-0033-0000	IRON COUNTY	300 TACONITE ST, HURLEY, WI 54534-0000	TOWN OF PENCE	54550 WI		1495
18	PRIVATE	016-0034-0000	ANTHONY L GENTILE	3030 S WESLEY AVENUE, BERNWYN, IL 60402-0000	TOWN OF PENCE	54550 WI		1495
19	PRIVATE	016-0035-0000	DORIS RAUCHENBACH and ANDREAS RAUCHENBACH	307 BEASER AVE, ASHLAND, WI 54806-0000	TOWN OF PENCE	54550 WI		1495
20	PRIVATE	016-0035-0100	DORIS C RAUSCHENBACH and ANDREAS H RAUSCHENBACH	307 BEASER AVE, ASHLAND, WI 54806	TOWN OF PENCE	54550 WI		1495
21	PRIVATE	016-0036-0000	VIRGINIA AIJALA and BRIAN AIJALA	234 E ASH STREET, IRONWOOD, WI 49938-0000	TOWN OF PENCE	54550 WI		1495
22	PRIVATE	016-0037-0000	RICK AND ELIZABETH BUSAKOWSKI REVOC TRUST OF 2019	1806 BUCKHORN CIRCL, ARBOR VITAE, WI 54568	TOWN OF PENCE	54550 WI		1495
23	PRIVATE	016-0038-0000	DENNIS KOEHLER and IONE R KOEHLER	N2030 COUNTY M, MERRILL, WI 54452	TOWN OF PENCE	54550 WI		1495
24	PRIVATE	016-0038-0100	ROBERT A SENN	8 BERNARD ST, HURLEY, WI 54534	TOWN OF PENCE	54550 WI		1500
25	PRIVATE	016-0038-0200	JOEL D RADY	P O BOX 209, SOLON SPRINGS, WI 54873-0209	TOWN OF PENCE	54550 WI		1500
26	PRIVATE	016-0038-0300	DAVID MARKMAN C/O GARY MARKMAN	N3819 WOODFIELD LANE, NEW LONDON, WI 54961-0000	TOWN OF PENCE	54550 WI		1500
27	PRIVATE	016-0039-0000	JULIE A FOATE and STUART J FOATE	3316 MARSH ROAD, WISCONSIN RAPIDS, WI 54495-0000	TOWN OF PENCE	54550 WI		1500
28	PRIVATE	016-0040-0000	GARY CURLER	N511 14TH DRIVE, WAUTOMA, WI 54982-0000	TOWN OF PENCE	54550 WI		1500
29	PRIVATE	016-0041-0000	GRETA R NASI and ROBERT G NASI	6480W WHITESIDE ST, PENCE, WI 54550-0000	TOWN OF PENCE	54550 WI		1500
30	PRIVATE	016-0042-0000	ALAN T SOBICZAK	510 HENMATTIE STREET, HURLEY, WI 54534-0000	TOWN OF PENCE	54550 WI		1500
31	PRIVATE	016-0043-0000	TOD DUNLAVY	N4813 BLISS RD, TAYLOR, WI 54659	TOWN OF PENCE	54550 WI		1500
32	PRIVATE	016-0044-0000	SCHPEPLER FAMILY REVOC TRUST	14 ILLINOIS AVENUE, MONTREAL, WI 54550-0000	TOWN OF PENCE	54550 WI		1500
33	PRIVATE	016-0045-0000	SCHPEPLER FAMILY REVOC TRUST	14 ILLINOIS AVENUE, MONTREAL, WI 54550-0000	TOWN OF PENCE	54550 WI		1500
34	PRIVATE	016-0046-0000	MICHELE R SEIBEL and TERENCE C SEIBEL	212 IRON STREET, HURLEY, WI 54534	TOWN OF PENCE	54550 WI		1500
35	PRIVATE	016-0046-0100	MARY BERKEN and THOMAS BERKEN	1295 LEAR LN APT #5, DE PERE, WI 54115-7250	TOWN OF PENCE	54550 WI		1500
36	PRIVATE	016-0133-0200	LEIAH COX and NORMAN COX	3699W COUNTY RD G, HURLEY, WI 54534	TOWN OF PENCE	54550 WI		1495
37	PRIVATE	016-0133-0300	JILL A BUTZLAFF and BRUCE W BUTZLAFF	823 THAYER ST., RHINELANDER, WI 54501	TOWN OF PENCE	54550 WI		1495
38	PRIVATE	016-0133-0400	Laurie Zielinski and Joel Zielinski	5261 S LAKE DRIVE, CUDAHY, WI 53110-2038	TOWN OF PENCE	54550 WI		1495
39	PRIVATE	016-0133-0500	RAEANN M LINK and GREGORY L LINK	1015 54TH ST, TWO RIVERS, WI 54241-1839	TOWN OF PENCE	54550 WI		1495
40	PRIVATE	016-0133-0600	NEAL SCHROETER and LEA ANN SCHROETER	615 N LOWELL, IRONWOOD, WI 49938-0000	TOWN OF PENCE	54550 WI		1495
41	PRIVATE	016-0152-0000	JOAN M FRAWLEY and MICHAEL K SCHULER	19710 WHISPERING PINES RD, CUTLER BAY, FL 33157	TOWN OF PENCE	54550 WI		1500
42	GOVERNMENT	016-0153-0000	IRON COUNTY	300 TACONITE ST, HURLEY, WI 54534-0000	TOWN OF PENCE	54550 WI		1495
43	GOVERNMENT	016-0182-0000	IRON COUNTY	300 TACONITE ST, HURLEY, WI 54534-0000	TOWN OF PENCE	54534 WI		Assumed prescribed rights to 1490
44	GOVERNMENT	016-0184-0000	IRON COUNTY	300 TACONITE ST, HURLEY, WI 54534-0000	TOWN OF PENCE	54550 WI		Assumed prescribed rights to 1490
45	PRIVATE	016-0187-0000	THOMAS J KANGAS	406 HANCOCK STREET, WATERTOWN, WI 53098-0000	TOWN OF PENCE	54534 WI		1495
46	GOVERNMENT	016-0206-0000	IRON COUNTY	300 TACONITE ST, HURLEY, WI 54534-0000	TOWN OF PENCE	54550 WI		1495
47	GOVERNMENT	016-0210-0000	IRON COUNTY	300 TACONITE ST, HURLEY, WI 54534-0000	TOWN OF PENCE	54550 WI		1495
48	GOVERNMENT	016-0212-0000	IRON COUNTY	300 TACONITE ST, HURLEY, WI 54534-0000	TOWN OF PENCE	54550 WI		1495
49	PRIVATE	016-0212-0100	RICHARD J MILLER and ROBIN L MILLER	6200 W FLOWAGE ROAD, PENCE, WI 54550	TOWN OF PENCE	54550 WI		1495
50	GOVERNMENT	016-0212-0200	IRON COUNTY	300 TACONITE ST, HURLEY, WI 54534-0000	TOWN OF PENCE	54550 WI		1495
51	PRIVATE	016-0213-0000	HAROLD SCHMUDE JR and CATHERINE A TECHTMANN	629 WHITESIDE, PENCE, WI 54550-0000	TOWN OF PENCE	54550 WI		1495
52	PRIVATE	016-0214-0000	CATHY TECHTMANN	629 WHITESIDE, PENCE, WI 54550-0000	TOWN OF PENCE	54550 WI		1495
53	PRIVATE	016-0215-0000	GENEVIEVE SALZWEDEL and LINDA M BARNES	4515 MATTHEW DR, RACINE, WI 53402-0000	TOWN OF PENCE	54550 WI		1495
54	PRIVATE	016-0215-0100	HAROLD SCHMUDE JR	629 WHITESIDE, PENCE, WI 54550-0000	TOWN OF PENCE	54550 WI		1495
55	PRIVATE	016-0215-0200	HAROLD SCHMUDE JR	BOX 227, PENCE, WI 54550-0000	TOWN OF PENCE	54550 WI		1495
56	PRIVATE	016-0215-0300	JEREMY C SMITH and DANIELLE J HALBACH	N1503 5TH SS, SEYMOUR, WI 54165	TOWN OF PENCE	54550 WI		1495
57	PRIVATE	016-0215-0400	JEREMY C SMITH and DANIELLE J HALBACH	N1503 5TH SS, SEYMOUR, WI 54165	TOWN OF PENCE	54550 WI		1495
58	PRIVATE	016-0215-0500	ASHLEY LEVRA and DUANE LEVRA	30 NO 4 ROAD, MONTREAL, WI 54550	TOWN OF PENCE	54550 WI		1495
59	PRIVATE	016-0215-0600	JEANNE M MATCHFTS and DANIEL R BORMANN	5866 N BRANCH RD, MERCER, WI 54547	TOWN OF PENCE	54550 WI		1495
60	GOVERNMENT	016-0217-0000	IRON COUNTY	300 TACONITE ST, HURLEY, WI 54534-0000	TOWN OF PENCE	54534 WI		1495
61	GOVERNMENT	016-0237-0000	TOWN OF PENCE	6745W 5TH 77, PENCE, WI 54550-0000	TOWN OF PENCE	54534 WI		Assumed prescribed rights to 1490
62	GOVERNMENT	016-0239-0000	IRON COUNTY	300 TACONITE ST, HURLEY, WI 54534-0000	TOWN OF PENCE	54550 WI		1495
63	PRIVATE	016-0240-0000	HAROLD SCHMUDE, ETAL and CHERYL L ZANELLA TRUST	629 WHITESIDE, PENCE, WI 54550	TOWN OF PENCE	54550 WI		1495
64	PRIVATE	016-0241-0000	GERALDINE GERATY and DANIEL GERATY	15344 ARROYO DRIVE, DAK FOREST, IL 60452-0000	TOWN OF PENCE	54550 WI		1495
65	PRIVATE	016-0242-0000	DONALD W FREY C/O PAM FREY	545 LAKWOOD BLVD, PARK FOREST, IL 60466-0000	TOWN OF PENCE	54550 WI		1495
66	PRIVATE	016-0242-0101	TRAVIS D RANDRUP	1651 1ST STREET SOUTH, WISCONSIN RAPIDS, WI 54494	TOWN OF PENCE	54550 WI		1495
67	PRIVATE	016-0242-0102	IOSHUA M RANDRUP	1838 OLD WEST MAIN STREET, RED WING, MN 55066	TOWN OF PENCE	54550 WI		1495
68	PRIVATE	016-0242-0103	GEORGE W HUCKER	26177 W SUNSET, ANTIPOCH, IL 60002-0000	TOWN OF PENCE	54550 WI		1495
69	PRIVATE	016-0242-0200	CHRISTINE HUCKER and WADE HUCKER	30114 52ND STREET, SALEM, WI 53168	TOWN OF PENCE	54550 WI		1495
70	PRIVATE	016-0248-0000	PINE RIVER LUMBER CO	P O BOX 139, LONG LAKE, WI 54542	TOWN OF PENCE	54534 WI		1500
71	PRIVATE	016-0395-0000	JOHN & JOAN FRAWLEY TRUST AGREEMENT	19710 WHISPERING PINES RD, CUTLER BAY, FL 33157	TOWN OF PENCE	54525 WI		1500
72	PRIVATE	016-0404-0100	BRIAN BINZ and STEVEN E BINZ	9 MONTREAL STREET, MONTREAL, WI 54550-0000	TOWN OF PENCE	54550 WI		1495
73	PRIVATE	016-0404-0200	MARY JO RODRIGUEZ and MARK S SOINE	11435N ISLAND LAKE ROAD, IRON BELT, WI 54536	TOWN OF PENCE	54550 WI		1495
74	PRIVATE	016-0404-0300	KRISTINA A SPRINKMAN	10369 HOWARDS END ROAD, MINOCQUA, WI 54548-0000	TOWN OF PENCE	54550 WI		1495
75	PRIVATE	016-0405-0000	DORIS VALLE-SOINE C/O DAN SOINE	P O BOX 68, IRON BELT, WI 54536	TOWN OF PENCE	54550 WI		1495
76	PRIVATE	016-0412-0000	JOHN JAMES FRAWLEY and MICHAEL K SCHULER TRUST	19710 WHISPERING PINES RD, CUTLER BAY, FL 33157	TOWN OF PENCE	54525 WI		1500
77	PRIVATE	251-0384-0000	JOAN M FRAWLEY and JOHN JAMES FRAWLEY	19710 WHISPERING PINES RD, CUTLER BAY, FL 33157	CITY OF MONTREAL	54525 WI		Assumed prescribed rights to 1490
78	PRIVATE	251-0414-0000	CITY OF MONTREAL	54 WISCONSIN AVE, MONTREAL, WI 54550-0000	CITY OF MONTREAL	54525 WI		Assumed prescribed rights to 1490
79	GOVERNMENT	ROAD	ROAD ROW		TOWN OF CAREY	54534 WI		NA
80	GOVERNMENT	ROAD	ROAD ROW		CITY OF MONTREAL	54525 WI		NA
81	OTHER	UNKNOWN	UNKNOWN		CITY OF MONTREAL	54550 WI		NA
82	OTHER	WATER	GILE FLOWAGE		CITY OF MONTREAL	54525 WI		NA

Appendix N – 1937 PSCW Order



BEFORE THE
PUBLIC SERVICE COMMISSION OF WISCONSIN

IN THE MATTER OF THE APPLICATION OF
THE LAKE SUPERIOR DISTRICT POWER
COMPANY FOR A PERMIT TO CONSTRUCT,
OPERATE AND MAINTAIN A DAM ACROSS
THE MONTREAL RIVER, A NAVIGABLE
STREAM, UNDER THE PROVISIONS OF SEC-
TION 31.05, STATUTES

2-WP-271

BY THE COMMISSION:

The application of the Lake Superior District Power Company for a permit to construct a dam in the west branch of the Montreal River, a navigable stream, in the Southeast Quarter of the Northeast Quarter of the Northwest Quarter and the Southwest Quarter of the Northwest Quarter of the Northeast Quarter of Section 34, Township 46 North of Range 2 East, Iron County, pursuant to the provisions of Chapter 31 of the Statutes, came on to be heard at the Court House in the City of Hurley, Wisconsin, on the 9th day of September, 1936, at 10 o'clock in the forenoon, and on adjournments of said day on the 10th day of April, 1937, at the same place, pursuant to due and statutory notice.

The appearances on the 9th day of September, 1936, were as follows:

PRESENT: Adolph Kanneberg, Examiner

APPEARANCES:

LAKE SUPERIOR DISTRICT POWER COMPANY, by

Sanborn, Blake & Aberg, Attorneys, by
C. E. Blake
Madison, Wisconsin

John O. Forss
Engineer and Assistant to President

Marion F. Reid

A GROUP OF PROPERTY OWNERS, by

R. C. Trembath, Attorney
Hurley, Wisconsin

VICTOR HANNULA, by

J. C. Raineri, Attorney
Hurley, Wisconsin

TOWN OF PENCE, and A GROUP OF LAND
OWNERS AFFECTED BY THIS PROJECT, by

Hon. Paul Alfonsi
Pence, Wisconsin

At the hearing held on April 10, 1937, there were present Commissioner Robert A. Nixon and Examiner W. A. Anderson, the appearances being the same as at the previous hearing.

From the application, the evidence, files and proceedings, it appears that the purpose of the proposed dam is to create a reservoir for storing flood waters to be available for release during periods of natural low flow in the west branch of the Montreal River, to equalize stream flow and to create additional firm power at the applicant's generating plants at Saxon Falls and Superior Falls.

The dam will consist of reinforced concrete and earth embankments with steel sheet piling cores in the earth embankments. The dam will contain one 12.0' x 16.0' Tainter gate for the passage of flood waters and one 5.0' deep x 6.0' wide sluice gate. The sill of the Tainter gate will be at elevation 1478.0' and the sill of the sluice gate at elevation 1465.0'. The dam will maintain a maximum head above the stream bed of approximately 25.0'. Normal pond elevation will be at approximately 1490.0'. The earth dykes which are 10.0' wide on top will rise to elevation 1495.0'. The dykes have riprapped earth slopes on the upstream side from elevation 1493.0' to the toe of the dam. The upstream slopes will be constructed on a slope of 3 on 1, while the downstream slopes will be of 2.5 on 1.

The sheet piling cores will be carried longitudinally through the full length of the dykes from the rock foundation to

elevation 1493.0'. Sub-drainage is provided for the downstream side of the core wall by the installation of 4" longitudinal vitrified drain tile connected by 4" laterals to the toe of the dam laid 15' apart. All elevations are referred to the applicant's bench mark described as follows:

Bench mark No. 12 located near the dam site, as more particularly shown in the record, Exhibit 3, having an elevation of 1478.371', mean sea level datum.

The application contains the several proposals required by Section 31.09, Statutes, and pursuant to Subsection (1) of said section, the Commission has valued the dam site and all flowage lands and all other flowage rights and property necessary for the purposes set forth in the application for the permit, whether the same or any part thereof are owned by the applicant or not, and has found the value thereof to be \$60,000.

The proposed dam is located within the city limits of the city of Montreal.

There are no dams on the west branch of the Montreal River above the proposed dam site and the nearest existing dam below the proposed dam site is the Saxon Falls dam.

NOW, THEREFORE, upon the application and upon all of the evidence and records in this proceeding, the Commission hereby makes the following findings:

1. That the application fully complies with the requirements of Chapter 31 of the Statutes;
2. That upon receipt of the application herein, the Commission fixed a time not more than eight weeks thereafter and the place at the Court House in the City of Hurley for a public hearing thereon; that due notice of such time and place for hearing was given the applicant, and that the applicant caused a notice of such time and place to be published once each week for three successive weeks, the first publication being on the 7th day of August, 1936, in the Iron County News, a newspaper

designated by the Commission and published in the City of Hurley, Iron County, Wisconsin, within which county are situated all of the lands that will be affected by the proposed dam, and that not less than twenty days prior to such hearing the applicant mailed to each and every person interested in any lands that will be affected by said dam and whose post office address could by due diligence be ascertained a notice of the time and place set for such hearing, which notice was accompanied by a general statement of the nature of the application and was forwarded to each such person by registered mail in a sealed and postpaid envelope properly addressed, and that proof of such publication and mailing of the notice was filed with the Commission at the time of said hearing;

(3) That thereafter said hearing was duly held in accordance with said notice and the Commission did take evidence offered by the applicant and other persons interested in the application as well as in opposition thereto, and all parties in interest were given an opportunity to be heard;

(4) That the value of the fee title to the dam site and to such flowage lands as have been acquired in fee by the applicant and the value of all other easements, all flowage rights whatsoever, and other property necessary for the purposes set forth in the application for the permit, regardless of whether all of such dam site, flowage lands, flowage rights, easements and other property are owned by the applicant, is the sum of \$60,000;

In this connection the Commission finds that all lands and flowage rights below contour 1495' are necessary for the purposes set forth in the application for the permit and are included in the above value, regardless of whether the same have as yet been acquired by the applicant. There is also included in said value the cost of lands other than those above mentioned for the necessary buildings and other structures to complete the

project, any other necessary flowage rights, the cost of highway changes or relocations, the cost of clearing lands and flowages, the cost of acquiring by purchase or condemnation all of the lands and flowage rights not yet acquired and necessary for the completed project and an amount for contingencies.

(5) That the construction, operation and maintenance of the proposed dam will not materially obstruct existing navigation or violate other public rights and will not endanger life, health or property.

AND HEREBY THERE DOES ISSUE AND IS GRANTED to the applicant, the Lake Superior District Power Company, the permit provided for by Subsection (3) of Section 31.06, Statutes, for the construction, operation and maintenance of a dam in the west branch of the Montreal River in the Southeast Quarter of the Northeast Quarter of the Northwest Quarter and the Southwest Quarter of the Northwest Quarter of the Northeast Quarter of Section 34, Township 46 North of Range 2 East, Iron County, Wisconsin, as described herein.

Dated at Madison, Wisconsin, this 26th day of August, 1937.

PUBLIC SERVICE COMMISSION OF WISCONSIN

Fred S. Hunt
Chairman

Robert A. Wilson
Commissioner

R. Floyd Green
Commissioner

Attest:

[Signature]
Secretary

In the matter of the approval, pursuant to Chapter 31, Wisconsin Statutes, of plans for the construction of a concrete dam known as the Gile Reservoir Dam to be constructed by the Lake Superior District Power Company across the West Branch of the Montreal River, a navigable stream in the SE 1/4 of the NE 1/4 of the NW 1/4 and the SW 1/4 of the NW 1/4 of the NE 1/4 of Sec. 34, T. 46 N., R. 2 E., Iron County.

2-WP-271

No. of sheets in set of plans:

Fourteen (14)

Designations:

- Sheet #1 of 14 Title Sheet.
- Sheet #2 of 14, Drawing 210x01 showing plan of embankment, general topographic map of damsite, typical cross-section through embankment and location of drainage ditches and discharge structure, also village plat of Gile.
- Sheet #3 of 14, Drawing 210x02 revised February 19, 1937 showing plan of excavation for concrete structure.
- Sheet #4 of 14, Drawing 210x05 revised February 22, 1937 showing dimension and reinforcing details for sluiceway and pier #1.
- Sheet #5 of 14, Drawing 210x06 revised February 23, 1937 showing dimension and reinforcing details for spillway and pier #2.
- Sheet #6 of 14, Drawing 210x09 revised February 24, 1937 showing dimension and reinforcing details for west wing walls.
- Sheet #7 of 14, Drawing 210x10 revised February 25, 1937 showing dimension and reinforcing details for west wing walls and buttresses 1 to 8 inclusive.
- Sheet #8 of 14, Drawing 210x12 revised February 24, 1937 showing dimension and reinforcing details for east wing walls.
- Sheet #9 of 14, Drawing 210x13 revised February 25, 1937 showing east dimension and reinforcing details for east wing walls and buttresses 1 to 10 inclusive.
- Sheet #10 of 14, Drawing 210x15 revised July 22, 1936 showing radio gate fabrication details.
- Sheet #11 of 14, Drawing 210x16 revised July 10, 1936 showing miscellaneous fabrication of steel for deep sluice gate, trash racks, stop log guides, guard rails, etc.
- Sheet #12 of 14, Drawing 210x17 revised July 10, 1936 showing fabrication details and gate sills for deep sluice gate.
- Sheet #13 of 14, Drawing 210x20 issued July 27, 1936 showing radio gate hoist.

Sheet #14 of 14, Drawing 210x21 revised August 1, 1936 showing
frame and housing for sluice gate hoist.

as on file in the office of the Public Service Commission of Wisconsin
at Madison, Wisconsin.

Examined and checked in so far as safety of design is con-
cerned and recommended for approval.

Kenneth C. MacLeish 3/29/37
Date

Approved as recommended

Geo. P. Steinmetz 3/30/37
Chief Engineer Date

Wm. M. Duncan 3/30/37
Secretary Date

2-WP-271

APPROVAL OF PLANS

SUPERSEDES APPROVAL DATED SEPTEMBER 10, 1940

Chapter 31, Wisconsin Statutes

Docket No. 2-WP-271

GILE RESERVOIR DAM, MONTREAL RIVER

Owner: Lake Superior District Power Company, Ashland, Wisconsin

Nature of plans: The plans consist of a complete set of drawings showing general location, dimension and reinforcing details for a concrete spillway structure, and earth work approaches for a dam having a maximum operating head of about 24'.

Location: Across the west branch of the Montreal River, a navigable stream in the southeast quarter of the northeast quarter of the northwest quarter and the southwest quarter of the northwest quarter of the northeast quarter of section 34, township 46 north, range 2 east, Iron County.

Purpose: For the storage of surplus water and the release of the same during times of scarcity for power production purposes.

Number of sheets in set of plans: 18

Designations:

Drawing #210X01 dated 1-27-41 showing general layout of proposed dam and typical cross-section through earth embankment, including location of bench marks.

Drawing #210X02 dated 1-27-41 showing excavation diagram for concrete structure and bearing pile layout with penetration chart.

Drawing #210X03 dated 1-27-41 showing plan of footings.

" #210X04 Omitted.

Drawing #210X05 dated 1-27-41 showing dimension details for sluiceway and pier #1.

Drawing #210X06 dated 1-27-41 showing dimension details of rollway and section through spillway and pier #2.

Drawing #210X07 dated 1-27-41 showing reinforcing details of sluiceway and pier #1.

Drawing #210X08 dated 1-27-41 showing reinforcing details of rollway and walk and pier #2.

Drawing #210X09 dated 1-27-41 showing dimension and reinforcing details in plan section and elevation for southwest wing wall; and northwest wing wall.

Drawing #210X10 dated 8-2-40 showing dimension and reinforcing details and elevations of west wing wall buttresses.

Drawing #210X11 Omitted.

Drawing #210X12 dated 1-27-41 showing dimension and reinforcing details in plan section and elevation of southeast wing wall; and northeast wing wall.

Drawing #210X13 dated 8-8-40 showing dimension and reinforcing details for east wing wall buttresses.

Drawing #210X14 dated 10-10-40 showing dimension details in plan, cross-section, and elevation for construction of a brick gate house on top of dam.

Drawing #210X15 dated 8-8-40 showing dimension and fabrication details for the 16' wide x 12' high steel radial (tainter) gate.

Drawing #210X16 dated 1-27-41 showing dimension and fabrication details for miscellaneous steel work and deep sluice gate for dam.

Drawing #210X17 dated 1-28-41 showing fabrication of deep sluice gate and method of sealing.

Drawing #210X18 Omitted gate house closure approved by letter dated 2/24/41
" X19 "

Drawing #210X20 dated 9-3-40 showing details of assembly of radial gate hoist.

Drawing #210X21 superseded by drawing #210X14

Drawing #210X22 dated 9-27-40 showing assembly of sluice gate hoist.

Drawing #210X23 dated 9-30-40 showing sluice gate hoist details for cable drum.

The above plans were filed in the office of the Public Service Commission at Madison on February 3, 1941 and supersede all previous drawings approved by the Commission.

The plans have been examined and checked so far as safety of design is concerned and are recommended for final approval.

Kenneth C. MacLeish 2/12/1941
Senior Assistant Engineer Date

Geo. P. Lannan 2-12-41
Chief Engineer Date

The Commission having examined the map, profile, plans, and specifications finds that the same are satisfactory and complete and approves the same as recommended.

Dated at Madison, Wisconsin, this 13th day of February 1941.

PUBLIC SERVICE COMMISSION OF WISCONSIN
R. H. Peterson

Raymond A. Fisher Chairman
W. H. Whitney Commissioner

Commissioner

BEFORE THE
PUBLIC SERVICE COMMISSION OF WISCONSIN

Investigation on Motion of the
Commission as to the Removal of
Brush and Timber from the Gile
Reservoir Flowage by the Lake
Superior District Power Company)
)
)
) 2-WP-520

OPINION AND ORDER

This is a proceeding under section 31.18(4), Statutes, on motion of the Commission on application of Valerie Thompson and 75 other persons for an order requiring the Lake Superior District Power Company to remove brush and timber from the flowage area of the so-called Gile Reservoir, Iron County. The reservoir is owned and operated by the Lake Superior District Power Company.

Hearing: September 15, 1941 at Madison before Examiner Adolph Kanneberg.

Appearances:

Lake Superior District Power Company by

John Forss
Vice President
Ashland

C. E. Blake
Attorney
Madison

Town of Pence, Iron County, by

Paul Alphonsi
Pence

Town of Carey, Iron County, by

Charles L. Santini
Attorney
Ironwood, Michigan

On August 26, 1937 the Commission in docket 2-WP-271 issued to the Lake Superior District Power Company a permit under section 31.06, Statutes, authorizing it to construct, operate,

and maintain a dam in the West Branch of the Montreal River for the purpose of creating a reservoir for storing flood waters to be available for release during periods of low natural flow, and thereby create additional firm power for the company's water powers at Saxon Falls and Superior Falls.

The Gile Reservoir at maximum headwater elevation of 1,490.0 feet, sea level datum, when referred to the company's bench mark No. 12, elevation 1,478.371 feet, covers approximately 3,300 to 3,400 acres of land. The flowage is located in sections 34, 35, and 36, township 46 north, range 2 east, and in sections 1, 2, 3, 4, 8, 9, 10, 11, 12, 15, 16, and 21, township 45 north, range 2 east, in the towns of Pence and Carey, Iron County. The flowage area consisted of about 10 percent meadowland with little or no brush. Approximately 45 percent is covered with brush and timber. The remainder of the flowage area consists largely of spruce and cedar swamp with practically no merchantable timber. About 2,200 acres of the flowage lands were acquired from the county of Iron which reserved the right to the timber on such lands.

The dam was completed in 1940 and the gates of the dam were closed in April 1941 and the reservoir started to fill. New state trunk highway 51 extends north and south along the easterly side of the flowage in section 1, township 45 north, range 2 east, and in the southwest quarter of the southeast quarter of section 36, township 46 north, range 2 east, for a distance of approximately 1-1/4 miles, whereas old state trunk highway 51, now county trunk C, runs in a northerly and southerly direction about one-half mile west of new state trunk highway 51 and crosses an arm of the flowage on a fill about one-fourth of a mile long in section 1, township 45 north, range 2 east. To the north and south of this highway fill, county trunk C extends close to the flowage for short distances. State trunk highway 51 is the main thoroughfare from the south to the Hurley and Ironwood region, and county trunk C is a well traveled road used locally.

In the fall of 1940 the company granted licenses to about 16 persons to cut and remove timber from separate descriptions in the flowage area. However, owing to the deep snow which fell in the winter of 1940-41 and perhaps for other causes, few of the licensees availed themselves of the privilege of cutting and removing the timber from their respective descriptions.

The company did, however, cut and remove by burning and otherwise timber and brush from the flowage on the following descriptions:

Southwest quarter of the northwest quarter and
West one-half of the southwest quarter
Section 35, township 46 north, range 2 east;

Small flowage area in
Section 35, township 46 north, range 2 east;

Northwest quarter of the northeast quarter
Southwest quarter of the northeast quarter and
West one-half of the southeast quarter
Section 1, township 45 north, range 2 east.

This work was performed in December 1940 and in January and February 1941. The cost of removing the timber and brush was estimated by the company at from \$15 to \$20 per acre.

The flowage is very irregular in outline. There are comparatively few locations on the shore of the flowage which are accessible to the public from a public highway or road. There are, however, other roads besides those heretofore described. One of these roads lies along the southwesterly side of the flowage. This road, however, appears to be used but little by the public, it being used mainly by fishermen and by a few people who have cottages on Island Lake south of the flowage. The flowage, however, is being used for navigation and fishing, and this use may and probably will be more extensive in the future as the fishing becomes better, it appearing that game fish have been, and in the future will probably be, planted in the flowage by the Conservation Commission. Thus the problem of what areas in the flowage may

reasonably be required to be cleared of timber and brush should be considered with respect both to appearance and to utility to fishermen and others making use of the flowage for boating, swimming, and other forms of recreation. It would seem to be reasonable that the flowage areas along main-traveled highways be cleared of timber and brush.

Timber and brush in the flowage appears to promote the growth of microscopic and larger forms of organisms which are the basic food supply for game fish. Timber and brush may, however, create some hazards to the fisherman and to persons making use of the flowage for sailing and other forms of boating.

The company has expressed the conviction that trees up to 3 or 4 inches in diameter and the brush in the flowage will be broken down and sink to the bottom with the lowering of the ice in the flowage when water is released for power production during the winter months. We are inclined to this view. At any rate no clearing of timber and brush other than along main-traveled highways and around the island hereinafter described will be required until the effect of the settling of ice in breaking down small trees and brush has been demonstrated during two succeeding winter seasons, namely, during the winters of 1940-1941 and 1942-1943.

No evidence was offered at the hearing on behalf of the applicants. However, the examiner on June 4, 1941 made an inspection of the Gile flowage when the water in the pond was at elevation 1,496.75 feet. The results of his examination are shown in a report to the Commission dated June 10, 1941. The report also contains the recommendations of the examiner as to areas from which timber and brush ought to be cut and removed. The report was offered in evidence by the attorney for the company and considered at length by the parties to the proceeding. The company accepted the recommendations of the examiner generally.

The representatives of the towns of Pence and Carey likewise accepted the report and recommendations, but insisted that if the

company is given the privilege of demonstrating its theory that the ice in the pond will break down the timber and brush and cause it to settle so as not to unreasonably interfere with the use of the pond for navigation and fishing, and if after such demonstration the results appear to be inadequate, that a further hearing herein be had and the company be required to clear such additional areas as may be warranted by the proofs.

Section 31.18(4), Statutes, provides as follows:

"The public service commission shall in the interest of public rights in navigable waters, or to promote safety and protect life, health and property, require the grantee of any permit, under this chapter, or of any permit or authorization heretofore provided for by legislative enactment, prior to flowing any lands by the construction of a dam thereunder, to remove from such lands all or any portion of the standing and fallen timber and all or any portion of the brush."

This section makes it the duty of the Commission on its own motion to require the removal of timber and brush from such portions of the flowage area as may be reasonably necessary to protect the interests of the public in the navigable waters of the Gile flowage, or to promote safety and to protect life, health, and property.

It would seem to follow that if the company is permitted to demonstrate its theory that the settling of the ice on the pond during the winter months when water is released from the pond will crush small timber and brush in the flowage so that cutting and removing is unnecessary, that the Commission retain jurisdiction of the proceedings until after the expiration of the demonstration period.

Finding

THE COMMISSION FINDS:

That the interests of public rights in navigable waters of the Gile Flowage and the promotion of safety and the protection of life, health, and property require that the company clear certain areas of the flowage of timber and brush and do and perform such other things as are required by the order which follows:

Order

IT IS THEREFORE ORDERED:

1. That the respondent, Lake Superior District Power Company, during the winter of 1941-42 cut and remove, by burning or otherwise, all of the timber and brush below elevation 1,490 feet, and all timber and brush above elevation 1,490.0 feet which has been or will be killed by saturation of the soil due to maintaining the pond at the maximum elevation of 1,490.0 feet from the following areas, namely:

- a. Northwest quarter of the northwest quarter
Section 12, township 45 north, range 2 east;
- b. Southwest quarter of the southwest quarter
Section 1, township 45 north, range 2 east,
at all locations visible from county trunk C;
- c. Northwest quarter of the southwest quarter
Section 1, township 45 north, range 2 east;
- d. Southwest quarter of the northwest quarter
Section 1, township 45 north, range 2 east,
so far as the area is visible from county
trunk C;
- e. The area between county trunk C and state trunk
highway 51 in section 1, township 45 north,
range 2 east, so far as visible from either of
said highways;
- f. Southwest quarter of the southeast quarter
Section 36, township 46 north, range 2 east,
west of state trunk highway 51, so far as
the area is visible from said highway.

2. That the respondent also remove before September 1, 1942 all brush and timber around the island located principally in section 3, township 45 north, range 2 east, which will be killed by the waters of the pond at its maximum elevation.

3. That the Commission retain jurisdiction of this proceeding until July 1, 1943 for the purpose of making such

further and other orders as may be deemed reasonably necessary.

Dated at Madison, Wisconsin, this 17th day of
December 1941.

PUBLIC SERVICE COMMISSION OF WISCONSIN

E. H. Peterson Chairman

Robert A. Tison Commissioner

W. H. Whitney Commissioner

BEFORE THE
PUBLIC SERVICE COMMISSION OF WISCONSIN

Investigation on Motion of the
Commission as to the Removal of
Brush and Timber from the Gile
Reservoir Flowage by the Lake
Superior District Power Company

}
}
} 2 WP 520

SUPPLEMENTARY FINDING AND ORDER

On May 18, 1943 the town of Carey, Iron County, filed an application with the Public Service Commission of Wisconsin requesting an order requiring the Lake Superior District Power Company to cut and remove timber and brush from certain land areas within the Gile Reservoir Flowage in addition to that which the Commission directed to be removed under its order in this proceeding dated December 17, 1941.

The order of December 17, 1941 required the Lake Superior District Power Company to cut and remove timber and brush from certain areas within the Gile Reservoir Flowage below elevation 1490.0 feet, when referred to the company's bench mark No. 12, and to cut and remove brush and timber from certain areas above elevation 1490.0 feet, which would be killed by the saturation of the soil by maintaining the water level in the reservoir at its maximum elevation of 1490.0 feet.

The Commission retained jurisdiction of the proceeding until July 1, 1943 to grant a reasonable period of time to the company in which to demonstrate the contention it had advanced that the settling of the ice on the pond during the winter releases of water would break down brush and small trees and cause them to settle on the bed of the pond and thus obviate the necessity of cutting and removing such brush and timber from areas from which the Commission might otherwise require the same to be cut and removed.

After the filing of the application, namely on July 10, 1943, by mutual agreement, the town of Carey and the Lake Superior District Power Company by their representatives met with the examiner in this proceeding, Adolph Kanneberg, at the Gile Reservoir and viewed the various areas in the flowage from which the applicant requested that the brush and timber be cut and removed.

Thereafter, namely on July 1, 1943, the Lake Superior District Power Company and the town of Carey entered into a written agreement, subject to the approval of the Public Service Commission, copy of which agreement is on file in this proceeding, whereby it was agreed that the Lake Superior District Power Company shall cut and remove the timber and brush from the lands in the Gile Reservoir Flowage hereinafter described.

The examiner, who viewed the areas described in the agreement and hereinafter set forth, reported to the Commission that in his opinion public rights in the navigable waters of the Gile Reservoir Flowage and the promotion of safety and the protection of life, health, and property reasonably required the removal of the timber and brush from the land areas described in the agreement.

Finding

After due consideration of the agreement between the Lake Superior District Power Company and the town of Carey, and the evidence and record in this proceeding bearing upon the same, the Commission finds:

That the interests of public rights in the navigable waters of the Gile Flowage and the promotion of safety and the protection of life, health, and property require that the company clear certain areas of the flowage of timber and brush as is required by the order which follows:

Order

IT IS ORDERED:

1. That the respondent, the Lake Superior District Power

Company, during the winter of 1943-44 cut and remove by burning or otherwise all of the timber and brush from the following described areas in the Gile Flowage, namely:

1. The dead timber visible from Highway 51 in the Southwest Quarter of the Southeast Quarter (SW $\frac{1}{4}$ of SE $\frac{1}{4}$), Section Thirty-six (36), Town Forty-six (46), Range Two (2) East.
2. Any and all of the dead timber now visible in Section One (1) between Highway 51 and County Trunk C, Section One (1), Town Forty-five (45), Range Two (2) East, except that part within the boundaries of U.S. Highway 51; it is understood that it will be optional with the Lake Superior District Power Company to cut that portion thereof within the boundaries of Highway 51.
3. Clean up and complete the cutting of timber, brush, and trees in the Southwest Quarter of the Northwest Quarter (SW $\frac{1}{4}$ of NW $\frac{1}{4}$), the West Half of the Southwest Quarter (W $\frac{1}{2}$ of SW $\frac{1}{4}$), Section Thirty-five (35), Town Forty-six (46), Range Two (2) East.
4. Any and all timber visible from relocated County Trunk C, East Half of the Southeast Quarter (E $\frac{1}{2}$ of SE $\frac{1}{4}$), Section Two (2), Town Forty-five (45), Range Two (2) East, not to exceed a distance of 1320 feet from the center line of old County Trunk C assuming that the center line of said road is the section line.

2. That the proceedings herein be and the same are finally closed.

Dated at Madison, Wisconsin this 11th day of October 1943.

PUBLIC SERVICE COMMISSION OF WISCONSIN

R. M. Tolson Chairman

W. H. Britney Commissioner

Sydney H. Ashley Commissioner

ORDER NUMBER 3-NW-57-924

FACT FINDING

NAME OF DAM
Gile Reservoir Dam

DNR FIELD FILE NUMBER
26.9

NAME OF STREAM
West Branch Montreal River

IMPOUNDMENT
Gile Reservoir

COUNTY
Iron

DATE OF INSPECTION
May 19, 1981

NAME OF OWNER
Lake Superior District Power Company

NAME OF AGENT
Mike Popko, Supv. - Hydro Operations

STREET OR ROUTE
101 West 2nd Street

CITY, STATE, ZIP CODE
Ashland, WI 54806

TELEPHONE NUMBER (INCLUDE AREA CODE)
715/682-4511

INSPECTION PARTY

OWNER/AGENT
Mike Popko, Supv. - Hydro Operations

INTERESTED CITIZENS/GROUPS
None

DNR INSPECTOR
Duane Lahti - Brule Area Water Management Spec.

FERC
Contacted but did not wish to be present.

NAVIGATION AND DAM FACTS

1. IN VICINITY OF DAM

A. UPSTREAM
Motor Boating & Fishing

B. DOWNSTREAM
Same use by canoes and kyaks

2. APPARENT EXISTING USE

A. UPSTREAM
Motor Boating
Fishing
Swimming beach located east of the dam.

B. DOWNSTREAM
Fishing
Some canoes and kyaks

C. PORTAGE
Very rarely used for portaging boats. Boats are put in and taken out at the boat landing and canoes and kyaks are launched at Hwy 77, 1/2 mile downstream from the dam.

3. HAZARDS (USE APPROPRIATE ITEMS UNDER D 1-11 OR OTHERS.)

A. UPSTREAM
2., 4., 9. (Water is not normally passing over the spillways).

B. DOWNSTREAM
None

C. PORTAGE
None

- D.
- 1. DANGEROUS CURRENTS
 - 2. POTENTIAL FOR HIGH WAVE ENERGY
 - 3. GATED SPILLWAYS
 - 4. OPEN SPILLWAYS
 - 5. STEEP SLOPES
 - 6. UNFENCED DROPOFFS
 - 7. ELECTRICAL TRANSMISSION GEAR
 - 8. DANGEROUS TAKEOUT CONDITIONS
 - 9. POWER HOUSE INTAKE/OUTLET
 - 10. AUTOMATIC GATES
 - 11. BARBED WIRE HAZARDS

SIGNS, DEVICES AND PORTAGE FACILITIES

1. EXISTING

A. SIGNS AND LOCATIONS "Dam" and "take-out" signs are located approximately 6 feet above the water bolted to the fence railing above the main spillway.

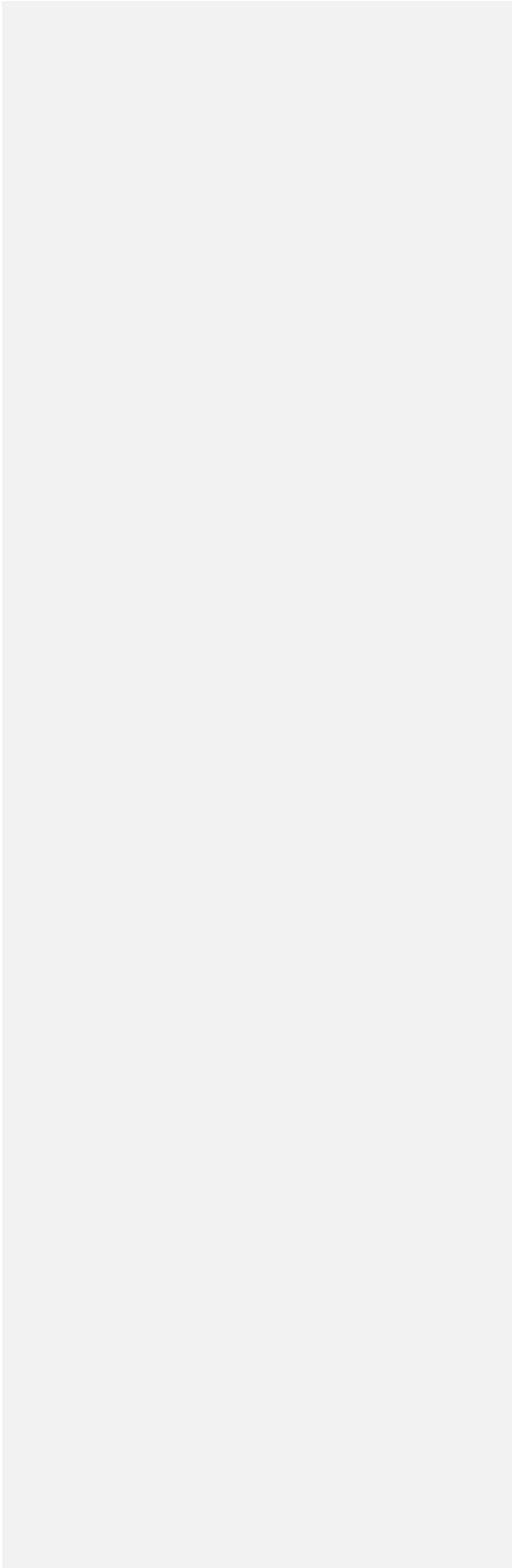
B. DEVICES AND LOCATIONS (INCL. LIGHTS, HORNS, SIRENS, ETC.)

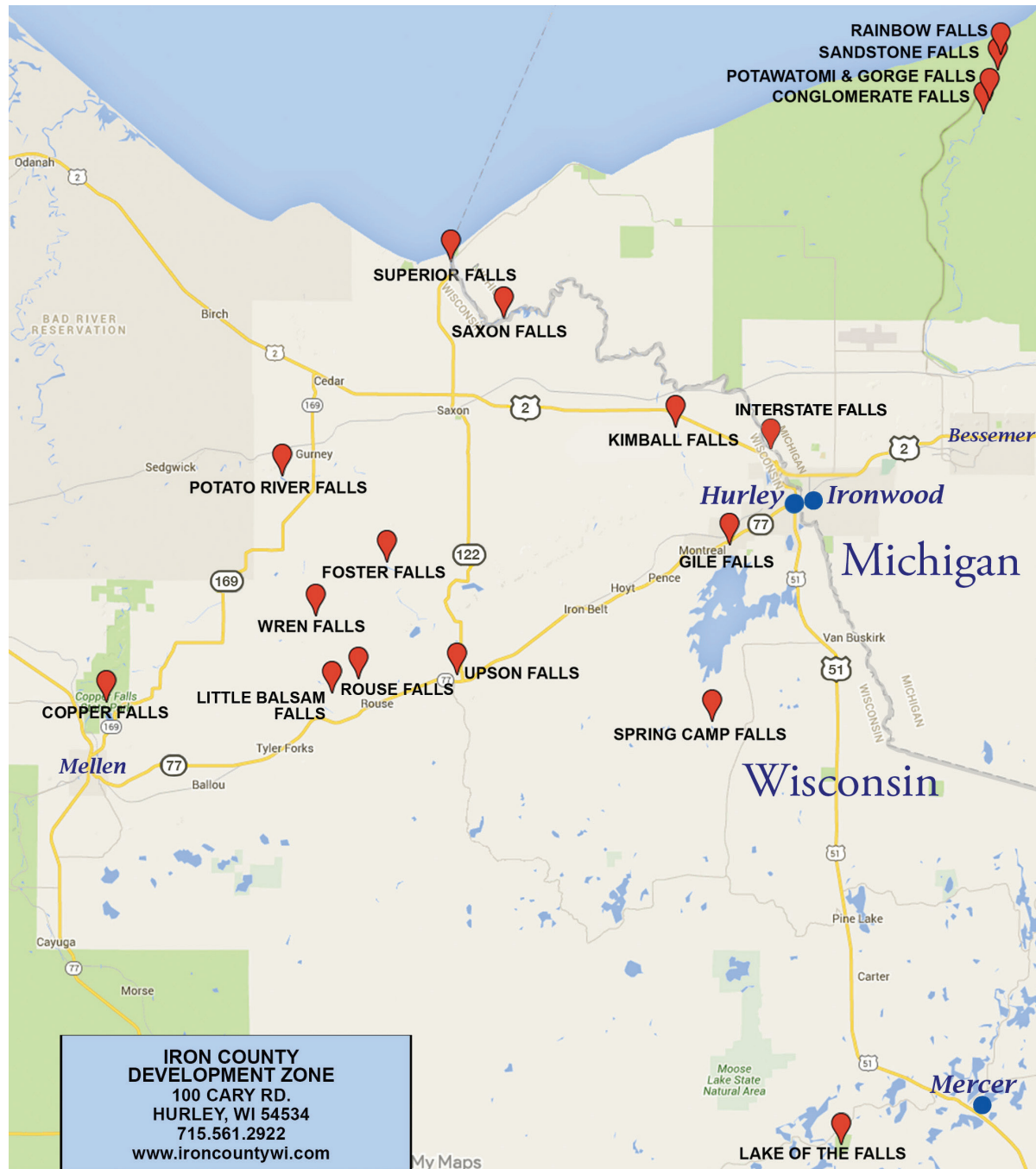
None

C. PORTAGE FEATURES AND LOCATIONS

Take out is located approximately 500 feet west of the dam. An old road can be used for the portage as it joins the river about 25 feet below the dam.

Appendix O – Waterfalls in and Around Iron Co, WI





**IRON COUNTY
DEVELOPMENT ZONE**
100 CARY RD.
HURLEY, WI 54534
715.561.2922
www.ironcountywi.com

Visit our Waterfall link at:
<http://ironcountywi.com/waterfalls/>

Waterfalls

in and around
Iron County,
Wisconsin



Contact Us:

Hurley Area Chamber of Commerce
316 Silver St.
Hurley, WI 54534
Phone: (715) 561-4334
www.hurleywi.com

Mercer Area Chamber of Commerce
5150 Hwy 51
Mercer, WI 54547
Phone: (715) 476-2389
www.mercercc.com

Iron County Development Zone
100 Cary Rd.
Hurley, WI 54534
Phone: (715) 561-2922
www.ironcountywi.com

<http://ironcountywi.com/waterfalls/>

Iron County

... is blessed with an abundance of spectacular waterfalls. Most are located in more remote, wild areas unspoiled by the crowds. Some can be easily driven to while others require walking and maybe a bit of orienteering to locate. All are worth the adventure of finding!

SUPERIOR FALLS - 46.561044° 90.415184°
90 feet. The falls drop 90 feet into the Montreal River near its mouth on Lake Superior. Take Hwy 122 north of Hwy 2 approx. 4.2 miles. Cross the Michigan border and continue another 0.5 miles to a gravel road on the left. A parking area is available.

SAXON FALLS - 46.536399° 90.37993°
90 feet. Take Hwy 122 north of Hwy 2 for about 2.1 miles, turn right on County Rd. B. Go approx. 1.7 miles and turn left on Saxon Falls Road as County Rd. B goes sharply to the right. Turn right at the fork in the road after 0.4 mile and proceed to the parking area. Walk to the left and cross the steel footbridge over the river. Once across the bridge, take the path to the left.

POTATO RIVER FALLS - 46.461142° 90.53032°
90 feet. Potato River (Gurney area). Head south from U.S. 2 on Hwy 169 for approx. 2.8 miles (through town of Gurney). Turn west on Potato River Falls Road, continue for 1.5 miles. Town Park with rustic campsites available. ATV access via routes.



WREN FALLS - 46.407357° 90.516937°
15 feet. Tyler Forks River. About 5.5 miles south of U.S. 2 on Hwy. 169. Take a left (east) turn on Vogues Rd. Follow the gravel road for 3.5 miles until a hairpin turn. Take the center road for about 1 mile where the road forks. Hike up the hill to a primitive campsite above the north side of the falls.

LITTLE BALSAM FALLS - 46.361397° 90.495962°
8 feet. Tyler Forks River. Located approx. 1 mile north of Hwy 77 and less than 0.5 mile south of

the confluence of Erickson Creek and Tyler Forks River. There is then a foot path to the falls. These falls are difficult to find and there is no parking area. GPS coordinates are helpful. You can also request our "Sportsman's Map" for a more detailed map.

ROUSE FALLS - 46.370681° 90.479515°
15 feet. Travel west from Upson about 2.5 miles on Hwy 77. Take a right on Casey Sag Rd. Rustic trail is 1 mile north on the right side. It is about a 0.75 mile hike.

UPSON FALLS - 46.371214° 90.412041°
20 feet. Potato River (Upson area). Take Hwy 77 west from Hurley into Upson. Turn north at Upson Town Park sign, then left at end of street. After crossing the river, turn left into Upson Town Park. Camping and picnic area available.

FOSTER FALLS - 46.420819° 90.459129°
25 feet. Potato River (north of Upson). North from Upson on Hwy 122 for 5 miles. Turn left (west) on Sullivan Rd and proceed 2 miles to the river and falls.

KIMBALL FALLS - 46.486042° 90.26099°
10 feet. West Branch Montreal River (Hurley area). Travel west out of Hurley on U.S. 2 for 3 miles, turn left (south) on Park Road and continue 0.2 miles. Turn right (west) on Town Park Road. Picnic area and pavilion.

INTERSTATE FALLS - 46.47552° 90.20085°
18 feet. East Branch Montreal River (Hurley area). Take U.S. 2 west of Hurley for 0.6 miles, turn right on gravel road at Interstate Falls signage. Follow road straight for approx. 0.3 miles to parking on left. The walking trail is 0.3 miles to the falls.



GILE FALLS - 46.43074° 90.22715°
15 feet. West Branch Montreal River (Gile area). Head west on Hwy 77 from Hurley for about 2 miles to Gile. Turn left (south) on Kokogan, then right onto Gile Falls Street. Proceed on foot to overlook of falls. A snowmobile bridge crosses the top of the falls.

SPRING CAMP FALLS - 46.347726° 90.239342°
20 feet. West Branch Montreal River.

There are two routes to this falls.

#1 From Hurley via Hwy 51 south, travel 4.5 miles, turn right (west) on County Hwy C. About 1.5 miles west, the county road turns sharply north - *don't take that!* Continue forward on the gravel road (Island Lake Road). After about a mile it turns south, follow Island Lake Road about another 3 miles to Falls Road. Turn right, go about 1.3 miles. Follow rustic path signs.



#2 From Hurley traveling west on Hwy. 77, go about 4 miles to South Elm Street. Turn left and follow approx. 0.4 miles to Spring Camp Road, turn left (south). Travel 5.1 miles along Spring Camp Road (you will cross West Branch Rd.) to a very rough logging road on the left. Follow 0.9 miles to falls. ATV access via Route 13.

LAKE OF THE FALLS - 46.150491° 90.151973°
10 feet. Turtle River (Mercer-Turtle Flambeau Flowage area). Travel north from Mercer on U.S. 51 for 1.4 miles. Turn left (west) on Hwy FF and proceed 5.2 miles. Turn left at Iron County Park/Lake of the Falls sign. Popkos Circle Picnic and rustic camping facilities, boat landing with access to Turtle-Flambeau Flowage via the Turtle River.

COPPER FALLS - 46.20518° 90.38340°
Copper Falls State Park offers spectacular waterfalls and deep gorges, hiking, bicycling, pic-

nicking, fishing, swimming, and camping. Concessions open seasonally. Located about 2 miles northeast of Mellen in Ashland County. Take Hwy 13 to the north side of Mellen and turn northeast on Hwy 169. Go about 1.8 miles. The park entrance will be on your left.

Nearby MICHIGAN

In Bessemer, turn north on County 513, (approx. 14 miles to falls). Follow signs to Copper Peak and Black River Harbor. After passing Copper Peak look for signs to falls. All falls will be on the right. For additional information Google:

Black River Parkway Falls

GREAT CONGLOMERATE FALLS - 46.375680° 90.031862°
30 feet. Walking trail is 0.75 miles with easy access.

POTAWATOMI FALLS - 46.381480° 90.030562°
30 feet. Walking trail is approx. 0.125 miles with easy access. Handicap access.

GORGE FALLS - 46.382480° 90.030162°
25 feet. Walking trail is approx. 0.125 miles with easy access.

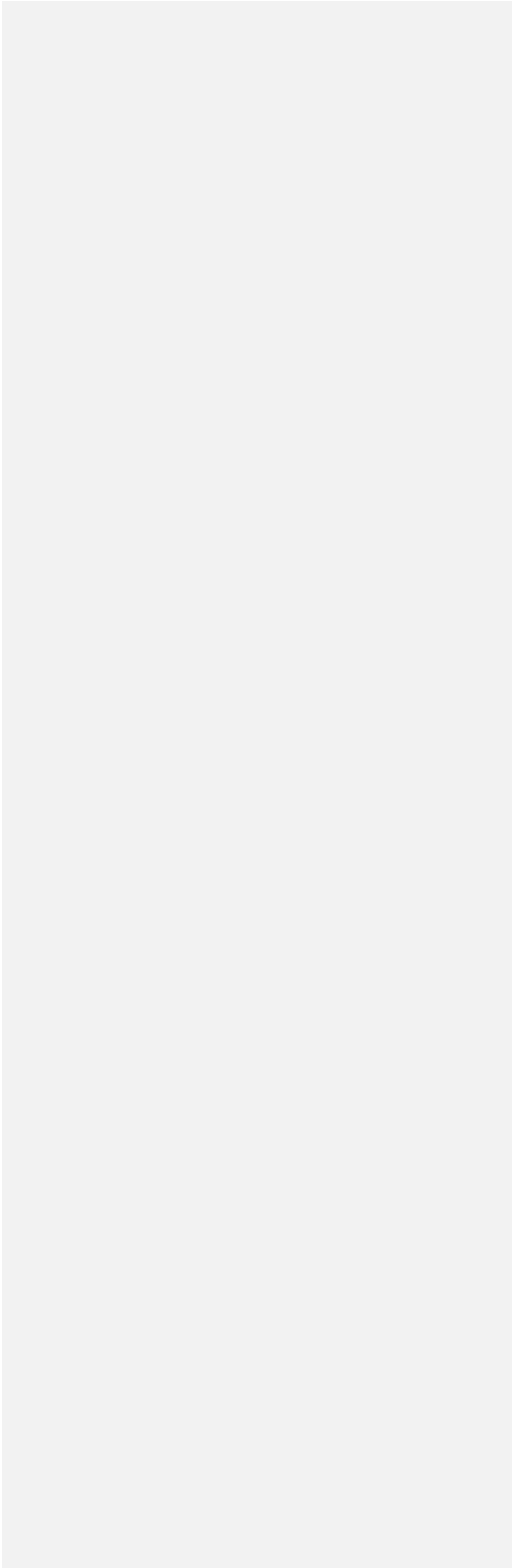
SANDSTONE FALLS - 46.392880° 90.0246.62°
15 feet. Walking trail is approx. 0.25 miles with easy access.

RAINBOW FALLS - 46.393337° 90.023637°
30 feet. Walking trail is approx. 0.5 miles with easy access.

Be sure to check out the Waterfall link on our website: <http://ironcountywi.com/waterfalls/>.

“Enjoy and be safe!”

Appendix P – Gile Project Flow Data



Gile Flowage Discharge Rates, April 29, 2017 to February 2, 2021.

Information was provide to Paul Eger, Global Minerals Engineering in February of 2021. Info to be used for water quality study on the Montreal River.

Date	Flow(CFS)
4/29/2017	400
4/30/2017	400
5/1/2017	1000
5/2/2017	1600
5/3/2017	1000
5/4/2017	500
5/5/2017	95
5/6/2017	95
5/7/2017	12
5/8/2017	12
5/9/2017	12
5/10/2017	12
5/11/2017	12
5/12/2017	12
5/13/2017	12
5/14/2017	12
5/15/2017	1200
5/16/2017	1350
5/17/2017	400
5/18/2017	1500
5/19/2017	1200
5/20/2017	590
5/21/2017	590
5/22/2017	590
5/23/2017	590
5/24/2017	300
5/25/2017	12
5/26/2017	150
5/27/2017	150

5/28/2017	500
5/29/2017	500
5/30/2017	350
5/31/2017	155
6/1/2017	12
6/2/2017	12
6/3/2017	12
6/4/2017	12
6/5/2017	12
6/6/2017	12
6/7/2017	12
6/8/2017	12
6/9/2017	60
6/10/2017	95
6/11/2017	95
6/12/2017	40
6/13/2017	12
6/14/2017	12
6/15/2017	12
6/16/2017	12
6/17/2017	12
6/18/2017	12
6/19/2017	12
6/20/2017	12
6/21/2017	12
6/22/2017	12
6/23/2017	12
6/24/2017	12
6/25/2017	12
6/26/2017	80
6/27/2017	80
6/28/2017	80
6/29/2017	12
6/30/2017	12
7/1/2017	12
7/2/2017	12
7/3/2017	12

7/4/2017	12
7/5/2017	60
7/6/2017	60
7/7/2017	60
7/8/2017	60
7/9/2017	60
7/10/2017	12
7/11/2017	12
7/12/2017	12
7/13/2017	12
7/14/2017	12
7/15/2017	12
7/16/2017	12
7/17/2017	12
7/18/2017	12
7/19/2017	12
7/20/2017	12
7/21/2017	12
7/22/2017	12
7/23/2017	12
7/24/2017	12
7/25/2017	12
7/26/2017	40
7/27/2017	40
7/28/2017	60
7/29/2017	60
7/30/2017	60
7/31/2017	60
8/1/2017	60
8/2/2017	60
8/3/2017	60
8/4/2017	60
8/5/2017	60
8/6/2017	60
8/7/2017	60
8/8/2017	60
8/9/2017	60

8/10/2017	60
8/11/2017	60
8/12/2017	60
8/13/2017	60
8/14/2017	60
8/15/2017	60
8/16/2017	60
8/17/2017	60
8/18/2017	60
8/19/2017	60
8/20/2017	60
8/21/2017	60
8/22/2017	12
8/23/2017	12
8/24/2017	12
8/25/2017	12
8/26/2017	12
8/27/2017	12
8/28/2017	12
8/29/2017	12
8/30/2017	12
8/31/2017	12
9/1/2017	12
9/2/2017	12
9/3/2017	12
9/4/2017	12
9/5/2017	12
9/6/2017	12
9/7/2017	12
9/8/2017	12
9/9/2017	12
9/10/2017	12
9/11/2017	12
9/12/2017	12
9/13/2017	12
9/14/2017	12
9/15/2017	12

9/16/2017	12
9/17/2017	12
9/18/2017	12
9/19/2017	12
9/20/2017	12
9/21/2017	40
9/22/2017	40
9/23/2017	40
9/24/2017	40
9/25/2017	40
9/26/2017	12
9/27/2017	12
9/28/2017	12
9/29/2017	12
9/30/2017	12
10/1/2017	12
10/2/2017	12
10/3/2017	12
10/4/2017	12
10/5/2017	12
10/6/2017	12
10/7/2017	12
10/8/2017	12
10/9/2017	12
10/10/2017	12
10/11/2017	12
10/12/2017	12
10/13/2017	12
10/14/2017	12
10/15/2017	12
10/16/2017	12
10/17/2017	12
10/18/2017	12
10/19/2017	12
10/20/2017	12
10/21/2017	12
10/22/2017	12

10/23/2017	12
10/24/2017	12
10/25/2017	12
10/26/2017	12
10/27/2017	12
10/28/2017	12
10/29/2017	12
10/30/2017	12
10/31/2017	12
11/1/2017	12
11/2/2017	40
11/3/2017	40
11/4/2017	40
11/5/2017	40
11/6/2017	12
11/7/2017	12
11/8/2017	12
11/9/2017	12
11/10/2017	12
11/11/2017	12
11/12/2017	12
11/13/2017	12
11/14/2017	12
11/15/2017	80
11/16/2017	80
11/17/2017	115
11/18/2017	115
11/19/2017	115
11/20/2017	60
11/21/2017	60
11/22/2017	60
11/23/2017	12
11/24/2017	12
11/25/2017	12
11/26/2017	60
11/27/2017	80
11/28/2017	95

11/29/2017	95
11/30/2017	60
12/1/2017	60
12/2/2017	60
12/3/2017	40
12/4/2017	40
12/5/2017	600
12/6/2017	455
12/7/2017	210
12/8/2017	210
12/9/2017	210
12/10/2017	210
12/11/2017	12
12/12/2017	12
12/13/2017	12
12/14/2017	12
12/15/2017	12
12/16/2017	12
12/17/2017	12
12/18/2017	12
12/19/2017	12
12/20/2017	40
12/21/2017	60
12/22/2017	60
12/23/2017	60
12/24/2017	80
12/25/2017	80
12/26/2017	80
12/27/2017	80
12/28/2017	95
12/29/2017	95
12/30/2017	95
12/31/2017	95
1/1/2018	95
1/2/2018	95
1/3/2018	95
1/4/2018	95

1/5/2018	95
1/6/2018	95
1/7/2018	95
1/8/2018	95
1/9/2018	95
1/10/2018	95
1/11/2018	95
1/12/2018	95
1/13/2018	95
1/14/2018	95
1/15/2018	95
1/16/2018	95
1/17/2018	95
1/18/2018	95
1/19/2018	95
1/20/2018	80
1/21/2018	80
1/22/2018	80
1/23/2018	80
1/24/2018	80
1/25/2018	80
1/26/2018	80
1/27/2018	80
1/28/2018	80
1/29/2018	80
1/30/2018	80
1/31/2018	80
2/1/2018	80
2/2/2018	80
2/3/2018	80
2/4/2018	80
2/5/2018	110
2/6/2018	110
2/7/2018	110
2/8/2018	110
2/9/2018	110
2/10/2018	110

2/11/2018	110
2/12/2018	110
2/13/2018	110
2/14/2018	110
2/15/2018	110
2/16/2018	110
2/17/2018	110
2/18/2018	110
2/19/2018	110
2/20/2018	110
2/21/2018	110
2/22/2018	110
2/23/2018	125
2/24/2018	125
2/25/2018	125
2/26/2018	125
2/27/2018	160
2/28/2018	160
3/1/2018	160
3/2/2018	160
3/3/2018	160
3/4/2018	160
3/5/2018	125
3/6/2018	125
3/7/2018	125
3/8/2018	125
3/9/2018	125
3/10/2018	125
3/11/2018	125
3/12/2018	105
3/13/2018	80
3/14/2018	50
3/15/2018	50
3/16/2018	50
3/17/2018	50
3/18/2018	50
3/19/2018	50

3/20/2018	50
3/21/2018	50
3/22/2018	50
3/23/2018	50
3/24/2018	50
3/25/2018	12
3/26/2018	12
3/27/2018	12
3/28/2018	12
3/29/2018	12
3/30/2018	12
3/31/2018	12
4/1/2018	12
4/2/2018	12
4/3/2018	12
4/4/2018	12
4/5/2018	12
4/6/2018	12
4/7/2018	12
4/8/2018	12
4/9/2018	12
4/10/2018	35
4/11/2018	35
4/12/2018	35
4/13/2018	50
4/14/2018	50
4/15/2018	35
4/16/2018	12
4/17/2018	50
4/18/2018	50
4/19/2018	50
4/20/2018	50
4/21/2018	12
4/22/2018	12
4/23/2018	12
4/24/2018	12
4/25/2018	12

4/26/2018	12
4/27/2018	12
4/28/2018	12
4/29/2018	12
4/30/2018	12
5/1/2018	12
5/2/2018	205
5/3/2018	205
5/4/2018	40
5/5/2018	115
5/6/2018	210
5/7/2018	310
5/8/2018	310
5/9/2018	230
5/10/2018	12
5/11/2018	12
5/12/2018	12
5/13/2018	12
5/14/2018	12
5/15/2018	12
5/16/2018	12
5/17/2018	12
5/18/2018	12
5/19/2018	12
5/20/2018	12
5/21/2018	12
5/22/2018	40
5/23/2018	80
5/24/2018	80
5/25/2018	80
5/26/2018	80
5/27/2018	80
5/28/2018	80
5/29/2018	80
5/30/2018	80
5/31/2018	80
6/1/2018	12

6/2/2018	400
6/3/2018	305
6/4/2018	265
6/5/2018	150
6/6/2018	60
6/7/2018	12
6/8/2018	12
6/9/2018	12
6/10/2018	12
6/11/2018	40
6/12/2018	80
6/13/2018	150
6/14/2018	150
6/15/2018	1950
6/16/2018	2300
6/17/2018	2300
6/18/2018	2300
6/19/2018	1880
6/20/2018	155
6/21/2018	155
6/22/2018	155
6/23/2018	155
6/24/2018	155
6/25/2018	155
6/26/2018	12
6/27/2018	12
6/28/2018	12
6/29/2018	45
6/30/2018	45
7/1/2018	45
7/2/2018	45
7/3/2018	45
7/4/2018	45
7/5/2018	45
7/6/2018	45
7/7/2018	45
7/8/2018	45

7/9/2018	45
7/10/2018	45
7/11/2018	45
7/12/2018	45
7/13/2018	45
7/14/2018	45
7/15/2018	45
7/16/2018	45
7/17/2018	45
7/18/2018	45
7/19/2018	45
7/20/2018	45
7/21/2018	45
7/22/2018	45
7/23/2018	45
7/24/2018	45
7/25/2018	45
7/26/2018	45
7/27/2018	45
7/28/2018	45
7/29/2018	45
7/30/2018	45
7/31/2018	45
8/1/2018	45
8/2/2018	45
8/3/2018	12
8/4/2018	12
8/5/2018	12
8/6/2018	12
8/7/2018	12
8/8/2018	12
8/9/2018	12
8/10/2018	12
8/11/2018	12
8/12/2018	55
8/13/2018	55
8/14/2018	55

8/15/2018	55
8/16/2018	55
8/17/2018	75
8/18/2018	75
8/19/2018	75
8/20/2018	75
8/21/2018	12
8/22/2018	12
8/23/2018	60
8/24/2018	140
8/25/2018	140
8/26/2018	140
8/27/2018	430
8/28/2018	430
8/29/2018	430
8/30/2018	430
8/31/2018	430
9/1/2018	430
9/2/2018	430
9/3/2018	430
9/4/2018	640
9/5/2018	640
9/6/2018	640
9/7/2018	640
9/8/2018	640
9/9/2018	275
9/10/2018	140
9/11/2018	50
9/12/2018	50
9/13/2018	12
9/14/2018	12
9/15/2018	12
9/16/2018	12
9/17/2018	12
9/18/2018	12
9/19/2018	12
9/20/2018	12

9/21/2018	50
9/22/2018	50
9/23/2018	50
9/24/2018	50
9/25/2018	50
9/26/2018	50
9/27/2018	50
9/28/2018	50
9/29/2018	50
9/30/2018	50
10/1/2018	50
10/2/2018	50
10/3/2018	140
10/4/2018	140
10/5/2018	275
10/6/2018	275
10/7/2018	570
10/8/2018	960
10/9/2018	1250
10/10/2018	1450
10/11/2018	1450
10/12/2018	700
10/13/2018	275
10/14/2018	275
10/15/2018	275
10/16/2018	275
10/17/2018	30
10/18/2018	30
10/19/2018	90
10/20/2018	90
10/21/2018	140
10/22/2018	140
10/23/2018	430
10/24/2018	350
10/25/2018	90
10/26/2018	30
10/27/2018	30

10/28/2018	30
10/29/2018	30
10/30/2018	280
10/31/2018	280
11/1/2018	280
11/2/2018	280
11/3/2018	75
11/4/2018	150
11/5/2018	150
11/6/2018	400
11/7/2018	460
11/8/2018	400
11/9/2018	400
11/10/2018	400
11/11/2018	190
11/12/2018	12
11/13/2018	12
11/14/2018	40
11/15/2018	40
11/16/2018	40
11/17/2018	40
11/18/2018	40
11/19/2018	40
11/20/2018	40
11/21/2018	155
11/22/2018	155
11/23/2018	155
11/24/2018	155
11/25/2018	155
11/26/2018	155
11/27/2018	155
11/28/2018	155
11/29/2018	40
11/30/2018	40
12/1/2018	40
12/2/2018	40
12/3/2018	40

12/4/2018	40
12/5/2018	40
12/6/2018	40
12/7/2018	60
12/8/2018	60
12/9/2018	60
12/10/2018	60
12/11/2018	60
12/12/2018	60
12/13/2018	60
12/14/2018	60
12/15/2018	60
12/16/2018	60
12/17/2018	60
12/18/2018	60
12/19/2018	60
12/20/2018	60
12/21/2018	60
12/22/2018	60
12/23/2018	60
12/24/2018	60
12/25/2018	60
12/26/2018	60
12/27/2018	60
12/28/2018	60
12/29/2018	70
12/30/2018	70
12/31/2018	70
1/1/2019	70
1/2/2019	80
1/3/2019	80
1/4/2019	80
1/5/2019	80
1/6/2019	80
1/7/2019	80
1/8/2019	80
1/9/2019	80

1/10/2019	95
1/11/2019	95
1/12/2019	95
1/13/2019	95
1/14/2019	95
1/15/2019	95
1/16/2019	95
1/17/2019	95
1/18/2019	110
1/19/2019	110
1/20/2019	110
1/21/2019	110
1/22/2019	110
1/23/2019	110
1/24/2019	110
1/25/2019	110
1/26/2019	110
1/27/2019	110
1/28/2019	110
1/29/2019	110
1/30/2019	110
1/31/2019	110
2/1/2019	130
2/2/2019	130
2/3/2019	130
2/4/2019	130
2/5/2019	130
2/6/2019	130
2/7/2019	130
2/8/2019	130
2/9/2019	130
2/10/2019	130
2/11/2019	130
2/12/2019	130
2/13/2019	130
2/14/2019	130
2/15/2019	130

2/16/2019	130
2/17/2019	130
2/18/2019	130
2/19/2019	130
2/20/2019	145
2/21/2019	170
2/22/2019	195
2/23/2019	145
2/24/2019	145
2/25/2019	160
2/26/2019	175
2/27/2019	175
2/28/2019	175
3/1/2019	155
3/2/2019	155
3/3/2019	130
3/4/2019	130
3/5/2019	130
3/6/2019	140
3/7/2019	140
3/8/2019	140
3/9/2019	140
3/10/2019	140
3/11/2019	140
3/12/2019	140
3/13/2019	170
3/14/2019	170
3/15/2019	170
3/16/2019	170
3/17/2019	170
3/18/2019	170
3/19/2019	170
3/20/2019	170
3/21/2019	170
3/22/2019	170
3/23/2019	170
3/24/2019	100

3/25/2019	50
3/26/2019	50
3/27/2019	12
3/28/2019	12
3/29/2019	12
3/30/2019	12
3/31/2019	12
4/1/2019	12
4/2/2019	12
4/3/2019	12
4/4/2019	12
4/5/2019	12
4/6/2019	12
4/7/2019	12
4/8/2019	12
4/9/2019	255
4/10/2019	255
4/11/2019	255
4/12/2019	255
4/13/2019	255
4/14/2019	255
4/15/2019	290
4/16/2019	350
4/17/2019	350
4/18/2019	990
4/19/2019	1450
4/20/2019	1450
4/21/2019	1450
4/22/2019	1880
4/23/2019	1880
4/24/2019	1450
4/25/2019	300
4/26/2019	300
4/27/2019	300
4/28/2019	300
4/29/2019	300
4/30/2019	300

5/1/2019	300
5/2/2019	300
5/3/2019	300
5/4/2019	300
5/5/2019	170
5/6/2019	40
5/7/2019	40
5/8/2019	40
5/9/2019	580
5/10/2019	580
5/11/2019	490
5/12/2019	300
5/13/2019	210
5/14/2019	210
5/15/2019	210
5/16/2019	210
5/17/2019	210
5/18/2019	210
5/19/2019	1085
5/20/2019	1370
5/21/2019	840
5/22/2019	300
5/23/2019	300
5/24/2019	75
5/25/2019	75
5/26/2019	75
5/27/2019	75
5/28/2019	75
5/29/2019	135
5/30/2019	135
5/31/2019	135
6/1/2019	135
6/2/2019	40
6/3/2019	40
6/4/2019	40
6/5/2019	40
6/6/2019	40

6/7/2019	12
6/8/2019	12
6/9/2019	12
6/10/2019	12
6/11/2019	12
6/12/2019	12
6/13/2019	12
6/14/2019	12
6/15/2019	12
6/16/2019	12
6/17/2019	12
6/18/2019	12
6/19/2019	12
6/20/2019	12
6/21/2019	12
6/22/2019	12
6/23/2019	12
6/24/2019	12
6/25/2019	12
6/26/2019	12
6/27/2019	12
6/28/2019	65
6/29/2019	65
6/30/2019	65
7/1/2019	65
7/2/2019	65
7/3/2019	95
7/4/2019	95
7/5/2019	95
7/6/2019	95
7/7/2019	95
7/8/2019	95
7/9/2019	95
7/10/2019	95
7/11/2019	95
7/12/2019	95
7/13/2019	95

7/14/2019	65
7/15/2019	65
7/16/2019	65
7/17/2019	65
7/18/2019	65
7/19/2019	65
7/20/2019	65
7/21/2019	65
7/22/2019	65
7/23/2019	65
7/24/2019	65
7/25/2019	65
7/26/2019	65
7/27/2019	65
7/28/2019	65
7/29/2019	65
7/30/2019	65
7/31/2019	65
8/1/2019	65
8/2/2019	65
8/3/2019	65
8/4/2019	65
8/5/2019	65
8/6/2019	65
8/7/2019	65
8/8/2019	65
8/9/2019	65
8/10/2019	65
8/11/2019	65
8/12/2019	35
8/13/2019	35
8/14/2019	35
8/15/2019	35
8/16/2019	35
8/17/2019	35
8/18/2019	35
8/19/2019	35

8/20/2019	35
8/21/2019	35
8/22/2019	35
8/23/2019	35
8/24/2019	35
8/25/2019	35
8/26/2019	35
8/27/2019	35
8/28/2019	35
8/29/2019	35
8/30/2019	35
8/31/2019	35
9/1/2019	35
9/2/2019	35
9/3/2019	35
9/4/2019	12
9/5/2019	12
9/6/2019	12
9/7/2019	12
9/8/2019	12
9/9/2019	12
9/10/2019	12
9/11/2019	12
9/12/2019	12
9/13/2019	12
9/14/2019	12
9/15/2019	12
9/16/2019	12
9/17/2019	12
9/18/2019	12
9/19/2019	12
9/20/2019	12
9/21/2019	12
9/22/2019	12
9/23/2019	12
9/24/2019	12
9/25/2019	12

9/26/2019	12
9/27/2019	12
9/28/2019	12
9/29/2019	12
9/30/2019	12
10/1/2019	12
10/2/2019	12
10/3/2019	12
10/4/2019	12
10/5/2019	12
10/6/2019	12
10/7/2019	12
10/8/2019	12
10/9/2019	12
10/10/2019	12
10/11/2019	12
10/12/2019	12
10/13/2019	12
10/14/2019	12
10/15/2019	12
10/16/2019	12
10/17/2019	12
10/18/2019	12
10/19/2019	12
10/20/2019	12
10/21/2019	12
10/22/2019	12
10/23/2019	12
10/24/2019	12
10/25/2019	12
10/26/2019	12
10/27/2019	12
10/28/2019	12
10/29/2019	12
10/30/2019	12
10/31/2019	12
11/1/2019	12

11/2/2019	12
11/3/2019	12
11/4/2019	12
11/5/2019	12
11/6/2019	12
11/7/2019	12
11/8/2019	12
11/9/2019	12
11/10/2019	12
11/11/2019	12
11/12/2019	12
11/13/2019	12
11/14/2019	12
11/15/2019	12
11/16/2019	12
11/17/2019	12
11/18/2019	12
11/19/2019	12
11/20/2019	12
11/21/2019	12
11/22/2019	12
11/23/2019	12
11/24/2019	12
11/25/2019	12
11/26/2019	12
11/27/2019	12
11/28/2019	12
11/29/2019	12
11/30/2019	12
12/1/2019	12
12/2/2019	12
12/3/2019	12
12/4/2019	12
12/5/2019	12
12/6/2019	12
12/7/2019	12
12/8/2019	12

12/9/2019	12
12/10/2019	12
12/11/2019	12
12/12/2019	12
12/13/2019	12
12/14/2019	12
12/15/2019	12
12/16/2019	12
12/17/2019	12
12/18/2019	12
12/19/2019	12
12/20/2019	12
12/21/2019	12
12/22/2019	12
12/23/2019	12
12/24/2019	12
12/25/2019	12
12/26/2019	12
12/27/2019	12
12/28/2019	12
12/29/2019	12
12/30/2019	12
12/31/2019	12
1/1/2020	12
1/2/2020	12
1/3/2020	12
1/4/2020	12
1/5/2020	12
1/6/2020	60
1/7/2020	100
1/8/2020	100
1/9/2020	100
1/10/2020	100
1/11/2020	100
1/12/2020	100
1/13/2020	40
1/14/2020	40

1/15/2020	40
1/16/2020	50
1/17/2020	60
1/18/2020	70
1/19/2020	70
1/20/2020	80
1/21/2020	80
1/22/2020	80
1/23/2020	80
1/24/2020	155
1/25/2020	170
1/26/2020	170
1/27/2020	190
1/28/2020	210
1/30/2020	230
1/31/2020	250
2/1/2020	250
2/2/2020	250
2/3/2020	250
2/4/2020	250
2/5/2020	250
2/6/2020	250
2/7/2020	250
2/8/2020	250
2/9/2020	250
2/10/2020	250
2/11/2020	170
2/12/2020	150
2/13/2020	150
2/14/2020	150
2/15/2020	230
2/16/2020	300
2/17/2020	400
2/18/2020	150
2/19/2020	150
2/20/2020	150
2/21/2020	150

2/22/2020	150
2/23/2020	150
2/24/2020	300
2/25/2020	300
2/26/2020	300
2/27/2020	300
2/28/2020	245
2/29/2020	160
3/1/2020	160
3/2/2020	140
3/3/2020	140
3/4/2020	140
3/5/2020	140
3/6/2020	140
3/7/2020	140
3/8/2020	140
3/9/2020	140
3/10/2020	90
3/11/2020	50
3/12/2020	50
3/13/2020	12
3/14/2020	12
3/15/2020	12
3/16/2020	12
3/17/2020	12
3/18/2020	12
3/19/2020	12
3/20/2020	12
3/21/2020	12
3/22/2020	12
3/23/2020	12
3/24/2020	12
3/25/2020	12
3/26/2020	12
3/27/2020	12
3/28/2020	12
3/29/2020	195

3/30/2020	300
3/31/2020	400
4/1/2020	400
4/2/2020	400
4/3/2020	560
4/4/2020	560
4/5/2020	275
4/6/2020	275
4/7/2020	575
4/8/2020	1025
4/9/2020	1025
4/10/2020	575
4/11/2020	205
4/12/2020	205
4/13/2020	205
4/14/2020	205
4/15/2020	205
4/16/2020	205
4/17/2020	110
4/18/2020	110
4/19/2020	225
4/20/2020	225
4/21/2020	225
4/22/2020	225
4/23/2020	170
4/24/2020	170
4/25/2020	170
4/26/2020	320
4/27/2020	320
4/28/2020	1005
4/29/2020	1160
4/30/2020	870
5/1/2020	580
5/2/2020	305
5/3/2020	60
5/4/2020	60
5/5/2020	60

5/6/2020	12
5/7/2020	12
5/8/2020	12
5/9/2020	12
5/10/2020	12
5/11/2020	12
5/12/2020	12
5/13/2020	40
5/14/2020	40
5/15/2020	40
5/16/2020	40
5/17/2020	40
5/18/2020	40
5/19/2020	40
5/20/2020	40
5/21/2020	40
5/22/2020	80
5/23/2020	80
5/24/2020	80
5/25/2020	80
5/26/2020	80
5/27/2020	115
5/28/2020	600
5/29/2020	600
5/30/2020	210
5/31/2020	210
6/1/2020	95
6/2/2020	95
6/3/2020	95
6/4/2020	95
6/5/2020	60
6/6/2020	60
6/7/2020	60
6/8/2020	300
6/9/2020	200
6/10/2020	150
6/11/2020	150

6/12/2020	60
6/13/2020	60
6/14/2020	60
6/15/2020	60
6/16/2020	60
6/17/2020	40
6/18/2020	40
6/19/2020	40
6/20/2020	40
6/21/2020	12
6/22/2020	12
6/23/2020	12
6/24/2020	12
6/25/2020	12
6/26/2020	12
6/27/2020	12
6/28/2020	12
6/29/2020	12
6/30/2020	12
7/1/2020	12
7/2/2020	12
7/3/2020	12
7/4/2020	12
7/5/2020	12
7/6/2020	12
7/7/2020	12
7/8/2020	40
7/9/2020	40
7/10/2020	40
7/11/2020	40
7/12/2020	40
7/13/2020	40
7/14/2020	40
7/15/2020	40
7/16/2020	40
7/17/2020	40
7/18/2020	40

7/19/2020	40
7/20/2020	40
7/21/2020	40
7/22/2020	40
7/23/2020	40
7/24/2020	40
7/25/2020	40
7/26/2020	40
7/27/2020	40
7/28/2020	40
7/29/2020	40
7/30/2020	70
7/31/2020	95
8/1/2020	95
8/2/2020	95
8/3/2020	95
8/4/2020	95
8/5/2020	95
8/6/2020	110
8/7/2020	110
8/8/2020	110
8/9/2020	110
8/10/2020	12
8/11/2020	12
8/12/2020	12
8/13/2020	12
8/14/2020	12
8/15/2020	12
8/16/2020	12
8/17/2020	55
8/18/2020	55
8/19/2020	55
8/20/2020	55
8/21/2020	100
8/22/2020	100
8/23/2020	100
8/24/2020	100

8/25/2020	100
8/26/2020	100
8/27/2020	100
8/28/2020	100
8/29/2020	100
8/30/2020	100
8/31/2020	100
9/1/2020	100
9/2/2020	55
9/3/2020	95
9/4/2020	95
9/5/2020	95
9/6/2020	95
9/7/2020	95
9/8/2020	95
9/9/2020	70
9/10/2020	70
9/11/2020	70
9/12/2020	70
9/13/2020	70
9/14/2020	50
9/15/2020	50
9/16/2020	40
9/17/2020	40
9/18/2020	40
9/19/2020	40
9/20/2020	40
9/21/2020	40
9/22/2020	40
9/23/2020	40
9/24/2020	40
9/25/2020	40
9/26/2020	40
9/27/2020	40
9/28/2020	40
9/29/2020	12
9/30/2020	12

10/1/2020	12
10/2/2020	12
10/3/2020	12
10/4/2020	12
10/5/2020	12
10/6/2020	12
10/7/2020	12
10/8/2020	12
10/9/2020	12
10/10/2020	12
10/11/2020	12
10/12/2020	12
10/13/2020	12
10/14/2020	12
10/15/2020	12
10/16/2020	12
10/17/2020	12
10/18/2020	12
10/19/2020	12
10/20/2020	12
10/21/2020	12
10/22/2020	12
10/23/2020	12
10/24/2020	12
10/25/2020	12
10/26/2020	12
10/27/2020	12
10/28/2020	12
10/29/2020	12
10/30/2020	12
10/31/2020	12
11/1/2020	12
11/2/2020	12
11/3/2020	12
11/4/2020	12
11/5/2020	12
11/6/2020	12

11/7/2020	12
11/8/2020	12
11/9/2020	12
11/10/2020	12
11/11/2020	12
11/12/2020	12
11/13/2020	12
11/14/2020	12
11/15/2020	12
11/16/2020	12
11/17/2020	12
11/18/2020	12
11/19/2020	12
11/20/2020	12
11/21/2020	12
11/22/2020	12
11/23/2020	12
11/24/2020	12
11/25/2020	12
11/26/2020	12
11/27/2020	12
11/28/2020	12
11/29/2020	12
11/30/2020	12
12/1/2020	12
12/2/2020	12
12/3/2020	12
12/4/2020	12
12/5/2020	12
12/6/2020	12
12/7/2020	12
12/8/2020	12
12/9/2020	12
12/10/2020	12
12/11/2020	12
12/12/2020	12
12/13/2020	12

12/14/2020	12
12/15/2020	12
12/16/2020	12
12/17/2020	12
12/18/2020	12
12/19/2020	12
12/20/2020	12
12/21/2020	12
12/22/2020	75
12/23/2020	75
12/24/2020	75
12/25/2020	75
12/26/2020	75
12/27/2020	75
12/28/2020	75
12/29/2020	75
12/30/2020	75
12/31/2020	60
1/1/2021	60
1/2/2021	60
1/3/2021	60
1/4/2021	40
1/5/2021	40
1/6/2021	40
1/7/2021	40
1/8/2021	40
1/9/2021	40
1/10/2021	40
1/11/2021	40
1/12/2021	40
1/13/2021	40
1/14/2021	40
1/15/2021	40
1/16/2021	40
1/17/2021	40
1/18/2021	60
1/19/2021	60

1/20/2021	60
1/21/2021	60
1/22/2021	60
1/23/2021	60
1/24/2021	60
1/25/2021	60
1/26/2021	60
1/27/2021	60
1/28/2021	60
1/29/2021	60
1/30/2021	60
1/31/2021	60
2/1/2021	40

Appendix Q – Macroinvertebrate Data

Monitoring Station

Station ID 10032141
Station Name Meads Creek on Spring Camp Road

Show specific parameter: 

Sample Results

Previous 1-25 of 117 Next

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	CONDUCTIVITY, UMHOS/CM @ 25C		570	UMHOS/CM		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DISSOLVED OXYGEN FIELD		10.0	MG/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	OXYGEN, DISSOLVED, PERCENT OF SATURATION %		89.3	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PH FIELD		7.2	SU		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Average Stream Width of Reach (m)		2.0	METERS		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Average Stream Depth of Reach (m)		0.2	METERS		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Water Temperature		10.2	DEGREES C		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Macro Habitat, Average across all reps: Estimated Velocity		Slow (<0.15 m/s)	m/s		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Macro Habitat, Average across all reps: habitat type		Run			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Sand %		20	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Canopy Cover at sample site (%)?		70	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Embeddedness of substrate at sample site (%):		40	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Leaf Snags %		30	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Gravel %		20	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Coarse Woody Debris %		30	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Macro Habitat, Pollutant Sources, Local: Streambank Erosion		PH - Present/High Impact			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Macro Habitat, Factors Affecting Habitat, Local: Wetlands		PL - Present/Low Impact			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Macro Habitat, Water Quality Indicators, local: Iron Bacteria		PL - Present/Low Impact			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Total sampling time in minutes?		1.0	Minutes		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Estimated area sampled (in m2)?		2.0	METERS SQUARE		

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Number of samples in composite?	3
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Reason for sampling?	Other: Montreal TWA
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Iron Bacteria	U - Uncertain
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Macroinvertebrate habitat influence, Local: Bank Erosion	PH - Present/High Impact
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Chlorine	U - Uncertain

Monitoring Station

Station ID 10032141
 Station Name Meads Creek on Spring Camp Road

Show specific parameter: <Show All> 

Sample Results

Previous 26-50 of 117 Next

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Macroinvertebrate habitat, Pollutant Source: Watershed-wide Streambank Erosion		U - Uncertain			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Macroinvertebrate habitat Effect: Watershed-wide Wetland		U - Uncertain			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Wadeable Macroinvertebrate Field Data Report Comments:		Beaver impacts upstream and downstream.			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Percent Sample Sorted		7			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PLECOPTERA CAPNIIDAE ALLOCAPNIA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PLECOPTERA CAPNIIDAE PARACAPNIA ANGULATA		6			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PLECOPTERA NEMOURIDAE AMPHINEMURA		10			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PLECOPTERA TAENIOPTERYGIDAE TAENIOPTERYX BURKSI		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA BAETIDAE BAETIS		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA BAETIDAE BAETIS TRICAUDATUS		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA BAETIDAE ACERPENNA		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA BAETIDAE ACERPENNA MACDUNNOUGHII		6			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA EPHEMERELLIDAE EPHEMERELLA SUBVARIA		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA HEPTAGENIIDAE MACCAFFERTIUM VICARIUM		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA LEPTOPHLEBIIDAE		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA LEPTOPHLEBIIDAE LEPTOPHLEBIA		8			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA LEPTOPHLEBIIDAE LEPTOPHLEBIA CUPIDA		9			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA LEPTOPHLEBIIDAE PARALEPTOPHLEBIA		13			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	TRICHOPTERA HYDROPSYCHIDAE CHEUMATOPSYCHE		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	TRICHOPTERA HYDROPSYCHIDAE HYDROPSYCHE BETTENI		1			

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	TRICHOPTERA HYDROPSYCHIDAE CERATOPSYCHE SLOSSONAE	2
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	TRICHOPTERA LEPIDOSTOMATIDAE LEPIDOSTOMA	3
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	TRICHOPTERA MOLANNIDAE MOLANNA	2
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	TRICHOPTERA PSYCHOMYIIDAE LYPE DIVERSA	1
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	TRICHOPTERA UENOIDAE NEOPHYLAX	6

Monitoring Station

Station ID 10032141
 Station Name Meads Creek on Spring Camp Road

Show specific parameter: <Show All> 

Sample Results

[Previous](#) 51-75 of 117 [Next](#)

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	COLEOPTERA ELMIDAE OPTIOSERVUS FASTIDITUS		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA EMPIDIDAE NEOPLASTA		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA SIMULIIDAE PROSIMILIUM		16			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA SIMULIIDAE STEGOPTERNA		5			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA TABANIDAE CHRYSOPS		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA TIPULIDAE DICRANOTA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA TANYPODINAE 0 ZAVRELI MYIA		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA ORTHOCLADIINAE 1 BRILLIA PARVA		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA ORTHOCLADIINAE 1 PARAMETRIOCNEMUS		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA ORTHOCLADIINAE 1 TVETENIA BAVARICA GROUP BODE 1983		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 MICROPSECTRA		5			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 RHEOTANYTARSUS		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 STEPELLINA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 STEPELLINELLA		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 TANYTARSUS		10			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	HEMIPTERA VELIIDAE MICROVELIA AMERICANA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 PHAENOPSECTRA PUNCTIPES GROUP EPLER 2001		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 POLYPEDILUM (POLYPEDILUM) FALLAX GROUP EPLER 2001		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 POLYPEDILUM (URESIPEDILUM)		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 POLYPEDILUM (URESIPEDILUM) AVICEPS		2			

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA TANYPODINAE 0 THIENEMANNIMYIA GROUP	1	
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 PARATANYTARSUS LONGISTYLUS	1	
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	TRANSPARENCY TUBE MEASUREMENT	120	CM
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Macroinvertebrate Index of Biological Integrity (IBI), Wadable	10.80577	
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	HILSENHOFF'S BIOTIC INDEX (HBI)	3.921	

Monitoring Station

Station ID 10032141
Station Name Meads Creek on Spring Camp Road

Show specific parameter: <Show All>



Sample Results

Previous 76-100 of 117 Next

Project	Date/Time	DNR Parameter	Species Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	FAMILY-LEVEL BIOTIC INDEX (FBI)	4.075			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	HBI Max 10	4			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	SPECIES RICHNESS	38			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	GENERA RICHNESS	38			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PERCENT EPT INDIVIDUALS	57			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PERCENT EPT GENERA	45			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PERCENT CHIRONOMIDAE INDIVIDUALS	24			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	SHANNON'S DIVERSITY INDEX	4.652			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PERCENT SCRAPERS	9			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PERCENT FILTERER	26			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PERCENT SHREDDERS	20			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PERCENT GATHERERS	38			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Mean Pollution Tolerance Value	4.243			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DEPO Percent Individuals (DEP_PC_CNT)	31.293			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DEPO Genera (DEPO_G)	16			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DEPO, percent genera (DEP_PC_GEN)	42.105			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPT Genera (EPT_GENERA)	17			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPT Individuals (EPT_COUNT)	84			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPT Percent Individuals (EPT_PC_CNT)	57.143			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Amph Percent Individuals (AMP_PC_CNT)	0			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPT Percent Genera (EPT_PC_GEN)	44.737			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Isop Percent Individuals (ISO_PC_CNT)	0			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Isop Genera (ISOP_G)	0			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Isop Percent Genera (ISO_PC_GEN)	0			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Dipt Percent Genera (DIP_PC_GEN)	50			

Monitoring Station

Station ID 10032141
 Station Name Meads Creek on Spring Camp Road

Show specific parameter: <Show All>

**Sample Results**

[Previous](#) 101-117 of 117 [Next](#)

Project	Date/Time	DNR Parameter	Species Result	Units Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Dipt Percent Individuals (DIP_PC_CNT)	41.497		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Chir Percent Individuals (CHI_PC_CNT)	23.81		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Chir Percent Genera (CHI_PC_GEN)	36.842		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Gatherers Percent Individuals (GAT_PC_CNT)	38.194		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Gatherers Percent Genera (GAT_PC_GEN)	25		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Scrapers Percent Individuals (SCR_PC_CNT)	9.028		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Shredders Percent Individuals (SHR_PC_CNT)	20.139		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Insect Taxa (INSECT_T)	38		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Insect Percent Individuals (INSECT_PI)	100		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPT Taxa (EPT_T)	17		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Dominance 3 Percent Individuals (DOM3_PI)	33.333		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Intolerant EPT 2 Percent Individuals (INTOL_EPT2_PI)	21.769		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Tolerant Chir Percent Individuals (TOL_CHIR8_PI)	1.361		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Functional Trait Niches (ECOFTN)	14		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Amph Isop Percent Individuals (A_I_PC_CNT)	0		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Species Richness (Wadable IBI Intermediate)	38		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	WATER COLOR (VISUAL)	STAINED		

Monitoring Station

Station ID 10032145
 Station Name Black Creek on Spring Camp Road

Show specific parameter: <Show All> 

Sample Results

Previous 1-25 of 113 Next

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	CONDUCTIVITY, UMHOS/CM @ 25C		51.3	UMHOS/CM		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DISSOLVED OXYGEN FIELD		9.4	MG/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	OXYGEN, DISSOLVED, PERCENT OF SATURATION %		83.9	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PH FIELD		6.6	SU		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Average Stream Width of Reach (m)		2.0	METERS		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Average Stream Depth of Reach (m)		0.2	METERS		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Water Temperature		10.3	DEGREES C		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Macro Habitat, Average across all reps: Estimated Velocity		Moderate (0.15-0.5 m/s)	m/s		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Macro Habitat, Average across all reps: habitat type		Riffle			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Sand %		20	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Canopy Cover at sample site (%)?		80	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Embeddedness of substrate at sample site (%):		30	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Leaf Snags %		20	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Rubble %		30	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Gravel %		20	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Coarse Woody Debris %		10	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Macro Habitat, Factors Affecting Habitat, Local: Wetlands		PL - Present/Low Impact			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Total sampling time in minutes?		1.0	Minutes		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Estimated area sampled (in m2)?		1.0	METERS SQUARE		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Number of samples in composite?		3			

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Reason for sampling?	Other: Montreal TWA
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Macroinvertebrate habitat Effect: Watershed-wide Wetland	U - Uncertain
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Percent Sample Sorted	7
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PLECOPTERA CAPNIIDAE PARACAPNIA ANGULATA	10
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PLECOPTERA NEMOURIDAE AMPHINEMURA	11

Monitoring Station

Station ID 10032145
 Station Name Black Creek on Spring Camp Road

Show specific parameter: <Show All>



Sample Results

Previous 26-50 of 113 Next

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA BAETIDAE BAETIS		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA BAETIDAE BAETIS BRUNNEICOLOR		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA BAETIDAE ACERPENNA		19			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA BAETIDAE ACERPENNA MACDUNNOUGHII		20			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA EPHEMERELLIDAE EURYLOPHELLA		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA EPHEMERELLIDAE EURYLOPHELLA FUNERALIS		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA HEPTAGENIIDAE MACCAFFERTIUM		4			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA LEPTOPHLEBIIDAE		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPHEMEROPTERA LEPTOPHLEBIIDAE PARALEPTOPHLEBIA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	ODONATA CORDULEGASTRIDAE CORDULEGASTER		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	TRICHOPTERA HYDROPSYCHIDAE DIPLECTRONA MODESTA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	TRICHOPTERA HYDROPTILIDAE OXYETHIRA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	TRICHOPTERA PHILOPOTAMIDAE		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	TRICHOPTERA PHILOPOTAMIDAE CHIMARRA		4			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	TRICHOPTERA PHILOPOTAMIDAE CHIMARRA ATERRIMA		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	TRICHOPTERA RHYACOPHILIDAE RHYACOPHILA		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	TRICHOPTERA UENOIDAE NEOPHYLAX		6			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	COLEOPTERA ELMIDAE OPTIOSERVUS		4			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	COLEOPTERA ELMIDAE OPTIOSERVUS FASTIDITUS		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CERATOPOGONIDAE BEZZIA/PALPOMYIA HILSENHOFF 1995		3			

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CERATOPOGONIDAE PROBEZZIA	1
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CERATOPOGONIDAE CERATOPOGON CULICOIDITHORAX	1
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA SIMULIIDAE PROSIMILIUM	24
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA SIMULIIDAE PROSIMILIUM FUSCUM	57
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA SIMULIIDAE STEGOPTERNA	13

Monitoring Station

Station ID 10032145
 Station Name Black Creek on Spring Camp Road

Show specific parameter: <Show All> 

Sample Results

Previous 51-75 of 113 Next

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA TIPULIDAE PSEUDOLIMNOPHILA		7			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA TIPULIDAE TIPULA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA TANYPODINAE 0 CONCHAPELOPIA		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA TANYPODINAE 0 ZAVRELIMYIA		9			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA ORTHOCLADIINAE 1		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA ORTHOCLADIINAE 1 LIMNOPHYES		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA ORTHOCLADIINAE 1 PARAMETRIOCNEMUS		30			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CHIRONOMINAE 4		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 MICROPSECTRA		13			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 STEMPELLINELLA		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 TANYTARSUS		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	VENEROIDA PISIDIIDAE PISIDIUM		7			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA ORTHOCLADIINAE 1 ORTHOCLADIUS (SYMPOSIACLADIUS) ANNECTENS		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 POLYPEDILUM (URESIPEDILUM) AVICEPS		22			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA TANYPODINAE 0 THIENEMANNIMYIA GROUP		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA ORTHOCLADIINAE 1 HELENIELLA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	LUMBRICULIDA LUMBRICULIDAE LUMBRICULUS		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 PARATANYTARSUS LONGISTYLUS		5			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	TRANSPARENCY TUBE MEASUREMENT		120	CM		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Macroinvertebrate Index of Biological Integrity (IBI), Wadable		9.9634			

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	HILSENHOFF'S BIOTIC INDEX (HBI)	5.072
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	FAMILY-LEVEL BIOTIC INDEX (FBI)	5.088
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	HBI Max 10	4.709
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	SPECIES RICHNESS	35
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	GENERA RICHNESS	35

Monitoring Station

Station ID 10032145
 Station Name Black Creek on Spring Camp Road

Show specific parameter: <Show All>



Sample Results

Previous 76-100 of 113 Next

Project	Date/Time	DNR Parameter	Species Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PERCENT EPT INDIVIDUALS	30			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PERCENT EPT GENERA	34			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PERCENT CHIRONOMIDAE INDIVIDUALS	30			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	SHANNON'S DIVERSITY INDEX	4.048			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PERCENT SCRAPERS	6			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PERCENT FILTERER	37			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PERCENT SHREDDERS	17			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	PERCENT GATHERERS	33			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Mean Pollution Tolerance Value	4.31			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DEPO Percent Individuals (DEP_PC_CNT)	31.313			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DEPO Genera (DEPO_G)	14			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	DEPO, percent genera (DEP_PC_GEN)	42.424			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPT Genera (EPT_GENERA)	12			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPT Individuals (EPT_COUNT)	91			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPT Percent Individuals (EPT_PC_CNT)	30.64			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Amph Percent Individuals (AMP_PC_CNT)	0			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPT Percent Genera (EPT_PC_GEN)	36.364			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Isop Percent Individuals (ISO_PC_CNT)	0			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Isop Genera (ISOP_G)	0			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Isop Percent Genera (ISO_PC_GEN)	0			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Dipt Percent Genera (DIP_PC_GEN)	57.576			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Dipt Percent Individuals (DIP_PC_CNT)	66.667			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Chir Percent Individuals (CHI_PC_CNT)	30.64			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Chir Percent Genera (CHI_PC_GEN)	36.364			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Gatherers Percent Individuals (GAT_PC_CNT)	33.218			

Monitoring Station

Station ID 10032145
 Station Name Black Creek on Spring Camp Road

Show specific parameter: <Show All>

**Sample Results**

[Previous](#) 101-113 of 113 [Next](#)

Project	Date/Time	DNR Parameter	Species Result	Units Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Gatherers Percent Genera (GAT_PC_GEN)	26.667		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Scrapers Percent Individuals (SCR_PC_CNT)	5.882		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Shredders Percent Individuals (SHR_PC_CNT)	17.647		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Insect Taxa (INSECT_T)	33		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Insect Percent Individuals (INSECT_PI)	97.059		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	EPT Taxa (EPT_T)	12		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Dominance 3 Percent Individuals (DOM3_PI)	36.275		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Intolerant EPT 2 Percent Individuals (INTOL_EPT2_PI)	4.575		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Tolerant Chir Percent Individuals (TOL_CHIR8_PI)	3.268		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Functional Trait Niches (ECOFTN)	14		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Amph Isop Percent Individuals (A_I_PC_CNT)	0		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	Species Richness (Wadable IBI Intermediate)	35		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/23/2017 12:00 AM	WATER COLOR (VISUAL)	STAINED		

Monitoring Station

Station ID 10049233
 Station Name Unnamed (2942900) trib to Gile Flowage 115m DS Island lake Rd

Show specific parameter:

Sample Results

Previous 1-25 of 98 Next

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	CONDUCTIVITY, UMHOS/CM @ 25C		59.1	UMHOS/CM		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DISSOLVED OXYGEN FIELD		4.04	MG/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	OXYGEN, DISSOLVED, PERCENT OF SATURATION %		35.6	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	PH FIELD		6.4	SU		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Average Stream Width of Reach (m)		2.0	METERS		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Average Stream Depth of Reach (m)		0.25	METERS		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Water Temperature		9.8	DEGREES C		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Macro Habitat, Average across all reps: Estimated Velocity		Slow (<0.15 m/s)	m/s		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Macro Habitat, Average across all reps: habitat type		Shoreline Composite			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Canopy Cover at sample site (%)?		0	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Leaf Snags %		40	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Silt/Muck %		20	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Coarse Woody Debris %		40	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Macro Habitat, Factors Affecting Habitat, Local: Wetlands		PH - Present/High Impact			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Macro Habitat, Water Quality Indicators, local: Iron Bacteria		PL - Present/Low Impact			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Total sampling time in minutes?		1.0	Minutes		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Estimated area sampled (in m2)?		2.0	METERS SQUARE		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Number of samples in composite?		4			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Reason for sampling?		Other: TWA Project			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Iron Bacteria		U - Uncertain			

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Sedimentation	PH - Present/High Impact
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Macroinvertebrate habitat Effect:Local Springs	PL - Present/Low Impact
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Macroinvertebrate habitat Effect: Watershed-wide Springs	PL - Present/Low Impact
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Macroinvertebrate habitat Effect: Watershed-wide Wetland	U - Uncertain
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Macroinvertebrate habitat influence, Local: Sedimentation	PH - Present/High Impact

Monitoring Station

Station ID 10049233
 Station Name Unnamed (2942900) trib to Gile Flowage 115m DS Island lake Rd

Show specific parameter: <Show All>

Sample Results

[Previous](#) 26-50 of 98 [Next](#)

Project	Date/Time	DNR Parameter	Species	Result	Units Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Wadeable Macroinvertebrate Field Data Report Comments:		Major beaver impacts upstream and downstream of station.		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Percent Sample Sorted		27		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	EPHEMEROPTERA LEPTOPHLEBIIDAE LEPTOPHLEBIA		1		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	TRICHOPTERA LIMNephilidae		1		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	TRICHOPTERA PHRYGANEIDAE PTILOSTOMIS		2		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	COLEOPTERA		1		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA CERATOPOGONIDAE BEZZIA/PALPOMYIA HILSENHOFF 1995		6		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA CERATOPOGONIDAE CULICOIDES		1		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA TANYPODINAE 0 MEROPELOPIA		1		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA TANYPODINAE 0 NATARSIA		1		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA TANYPODINAE 0 PROCLADIUS		1		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA TANYPODINAE 0 ZAVRELIMYIA		2		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA ORTHOCLADIINAE 1 BRILLIA PARVA		1		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA ORTHOCLADIINAE 1 CHAETOCLADIUS		11		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA ORTHOCLADIINAE 1 DIPLOCLADIUS		4		

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA ORTHOCLADIINAE 1 HETEROTRISOCLADIUS MARCIDUS GROUP CRANSTON ET AL. 1983	1
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA ORTHOCLADIINAE 1 PARAMETRIOCNEMUS	60
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA ORTHOCLADIINAE 1 PARAPHAENOCLADIUS	1
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 MICROPSECTRA	10
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 TANYTARSUS	2
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 TRIBELOS JUCUNDUS	2
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	AMPHIPODA HYALELLIDAE HYALELLA AZTECA	1
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	VENEROIDA PISIDIIDAE PISIDIUM	5
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	ARHYNCHOBDELLIDA ERPOBDELLIDAE	1
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	RHYNCHOBDELLIDA GLOSSIPHONIIDAE GLOSSIPHONIA COMPLANATA	1

Monitoring Station

Station ID 10049233

Station Name Unnamed (2942900) trib to Gile Flowage 115m DS Island lake Rd

Show specific parameter: <Show All>



Sample Results

[Previous](#) 51-75 of 98 [Next](#)

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA TANYPODINAE 0 THIENEMANNIMYIA GROUP		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	RHYNCHOBELLIDA GLOSSIPHONIIDAE HELOBDELLA		8			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA TIPULIDAE EPIPHRAGMA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	TRANSPARENCY TUBE MEASUREMENT		120	CM		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Macroinvertebrate Index of Biological Integrity (IBI), Wadable		6.40264			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	HILSENHOFF'S BIOTIC INDEX (HBI)		5.622			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	FAMILY-LEVEL BIOTIC INDEX (FBI)		6.044			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	HBI Max 10		6.133			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	SPECIES RICHNESS		26			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	GENERA RICHNESS		26			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	PERCENT EPT INDIVIDUALS		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	PERCENT EPT GENERA		12			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	PERCENT CHIRONOMIDAE INDIVIDUALS		78			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	SHANNON'S DIVERSITY INDEX		3.154			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	PERCENT SCRAPERS		0			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	PERCENT FILTERER		6			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	PERCENT SHREDDERS		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	PERCENT GATHERERS		72			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Mean Pollution Tolerance Value		6.105			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DEPO Percent Individuals (DEP_PC_CNT)		69.298			

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DEPO Genera (DEPO_G)	9
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DEPO, percent genera (DEP_PC_GEN)	40.909
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	EPT Genera (EPT_GENERA)	3
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	EPT Individuals (EPT_COUNT)	4
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	EPT Percent Individuals (EPT_PC_CNT)	3.509

Monitoring Station

Station ID 10049233
 Station Name Unnamed (2942900) trib to Gile Flowage 115m DS Island lake Rd

Show specific parameter: <Show All>

Sample Results

[Previous](#) 76-98 of 98 [Next](#)

Project	Date/Time	DNR Parameter	Species Result	Units Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Amph Percent Individuals (AMP_PC_CNT)	.877		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	EPT Percent Genera (EPT_PC_GEN)	13.636		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Isop Percent Individuals (ISO_PC_CNT)	0		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Isop Genera (ISOP_G)	0		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Isop Percent Genera (ISO_PC_GEN)	0		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Dipt Percent Genera (DIP_PC_GEN)	77.273		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Dipt Percent Individuals (DIP_PC_CNT)	94.737		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Chir Percent Individuals (CHI_PC_CNT)	87.719		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Chir Percent Genera (CHI_PC_GEN)	63.636		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Gatherers Percent Individuals (GAT_PC_CNT)	81.25		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Gatherers Percent Genera (GAT_PC_GEN)	45		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Scrapers Percent Individuals (SCR_PC_CNT)	0		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Shredders Percent Individuals (SHR_PC_CNT)	3.571		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Insect Taxa (INSECT_T)	21		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Insect Percent Individuals (INSECT_PI)	87.597		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	EPT Taxa (EPT_T)	3		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Dominance 3 Percent Individuals (DOM3_PI)	62.791		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Intolerant EPT 2 Percent Individuals (INTOL_EPT2_PI)	0		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Tolerant Chir Percent Individuals (TOL_CHIR8_PI)	6.202		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Functional Trait Niches (ECOFTN)	4		

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Amph Isop Percent Individuals (A_I_PC_CNT)	.877
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Species Richness (Wadable IBI Intermediate)	26
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	WATER COLOR (VISUAL)	STAINED

Monitoring Station

Station ID 10032140
 Station Name Linnunpuro Creek on County Highway C

Show specific parameter: ▼

Sample Results

Previous 1-25 of 106 Next

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	CONDUCTIVITY, UMHOS/CM @ 25C		61.8	UMHOS/CM		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DISSOLVED OXYGEN FIELD		8.9	MG/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	OXYGEN, DISSOLVED, PERCENT OF SATURATION %		79.0	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	PH FIELD		6.8	SU		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Average Stream Width of Reach (m)		3.0	METERS		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Average Stream Depth of Reach (m)		0.6	METERS		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Water Temperature		10.2	DEGREES C		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Macro Habitat, Average across all reps: Estimated Velocity		Slow (<0.15 m/s)	m/s		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Macro Habitat, Average across all reps: habitat type		Shoreline Composite			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Canopy Cover at sample site (%)?		0	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Embeddedness of substrate at sample site (%):		40	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Rubble %		10	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Overhanging Vegetation %		20	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Aquatic Macrophytes %		70	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Macro Habitat, Factors Affecting Habitat, Local: Wetlands		U - Uncertain			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Total sampling time in minutes?		1.0	Minutes		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Estimated area sampled (in m2)?		2.0	METERS SQUARE		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Number of samples in composite?		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Reason for sampling?		Other: Montreal TWA			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Macroinvertebrate habitat Effect: Watershed-wide Wetland		U - Uncertain			

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Percent Sample Sorted	13
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	EPHEMEROPTERA BAETIDAE ACERPENNA	5
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	EPHEMEROPTERA EPHEMERELLIDAE EURYLOPHELLA	1
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	EPHEMEROPTERA HEPTAGENIIDAE STENACRON	2
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	EPHEMEROPTERA LEPTOPHLEBIIDAE LEPTOPHLEBIA	2

Monitoring Station

Station ID 10032140
 Station Name Linnunpuro Creek on County Highway C

Show specific parameter: 

Sample Results

[Previous](#) 26-50 of 106 [Next](#)

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	EPHEMEROPTERA LEPTOPHLEBIIDAE LEPTOPHLEBIA CUPIDA		39			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	TRICHOPTERA HYDROPTILIDAE OXYETHIRA		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	TRICHOPTERA LIMNEPHILIDAE LIMNEPHILUS		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	TRICHOPTERA LIMNEPHILIDAE PLATYCENTROPUS AMICUS		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	TRICHOPTERA MOLANNIDAE MOLANNA BLENDA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	COLEOPTERA ELMIDAE DUBIRAPHIA		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	COLEOPTERA ELMIDAE DUBIRAPHIA QUADRINOTATA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	COLEOPTERA ELMIDAE DUBIRAPHIA VITTATA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA CERATOPOGONIDAE SERROMYIA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA TANYPODINAE 0		4			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA TANYPODINAE 0 CONCHAPELOPIA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA TANYPODINAE 0 LARSIA		7			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA TANYPODINAE 0 NATARSIA BALTIMOREA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA TANYPODINAE 0 PROCLADIUS (PSILOTANYPUS) BELLUS		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA TANYPODINAE 0 PROCLADIUS (HOLOTANYPUS)		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA TANYPODINAE 0 ZAVRELIIMYIA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA CHIRONOMINAE 4		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 MICROPSECTRA		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 TANYTARSUS		6			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 DICROTENDIPES		4			

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 MICROTENDIPES PEDELLUS GROUP PINDER, REISS 1983	4
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 TRIBELOS JUCUNDUS	2
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	AMPHIPODA HYALELLIDAE HYALELLA AZTECA	46
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	BASOMMATOPHORA PLANORBIDAE GYRAULUS	7
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	BASOMMATOPHORA PLANORBIDAE PROMENETUS	1

Monitoring Station

Station ID 10032140
 Station Name Linnunpuro Creek on County Highway C

Show specific parameter: <Show All> ▼

Sample Results

[Previous](#) 51-75 of 106 [Next](#)

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	VENEROIDA PISIDIIDAE SPHAERIUM		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	VENEROIDA PISIDIIDAE PISIDIUM		14			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	HEMIPTERA CORIXIDAE HESPEROCORIXA MINORELLA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	HEMIPTERA CORIXIDAE SIGARA COMPRESSOIDEA		7			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	HEMIPTERA CORIXIDAE SIGARA SIGNATA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	HEMIPTERA NOTONECTIDAE NOTONECTA LUNATA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	CYCLOPOIDA CYCLOPIDAE		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 CHIRONOMUS		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 PHAENOPSECTRA PUNCTIPES GROUP EPLER 2001		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	ARHYNCHOBDELLIDA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 PHAENOPSECTRA FLAVIPES		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	TRANSPARENCY TUBE MEASUREMENT		120	CM		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Macroinvertebrate Index of Biological Integrity (IBI), Wadable		5.74595			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	HILSENHOFF'S BIOTIC INDEX (HBI)		6.215			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	FAMILY-LEVEL BIOTIC INDEX (FBI)		5.431			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	HBI Max 10		6.214			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	SPECIES RICHNESS		35			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	GENERA RICHNESS		32			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	PERCENT EPT INDIVIDUALS		30			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	PERCENT EPT GENERA		25			

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	PERCENT CHIRONOMIDAE INDIVIDUALS	21
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	SHANNON'S DIVERSITY INDEX	3.74
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	PERCENT SCRAPERS	3
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	PERCENT FILTERER	14
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	PERCENT SHREDDERS	1

Monitoring Station

Station ID 10032140
 Station Name Linnunpuro Creek on County Highway C

Show specific parameter: <Show All> 

Sample Results

[Previous](#) 76-100 of 106 [Next](#)

Project	Date/Time	DNR Parameter	Species Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	PERCENT GATHERERS	66			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Mean Pollution Tolerance Value	6.25			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DEPO Percent Individuals (DEP_PC_CNT)	48.052			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DEPO Genera (DEPO_G)	14			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	DEPO, percent genera (DEP_PC_GEN)	48.276			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	EPT Genera (EPT_GENERA)	8			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	EPT Individuals (EPT_COUNT)	54			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	EPT Percent Individuals (EPT_PC_CNT)	35.065			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Amph Percent Individuals (AMP_PC_CNT)	29.87			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	EPT Percent Genera (EPT_PC_GEN)	30.769			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Isop Percent Individuals (ISO_PC_CNT)	0			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Isop Genera (ISOP_G)	0			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Isop Percent Genera (ISO_PC_GEN)	0			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Dipt Percent Genera (DIP_PC_GEN)	50			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Dipt Percent Individuals (DIP_PC_CNT)	25.325			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Chir Percent Individuals (CHI_PC_CNT)	24.675			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Chir Percent Genera (CHI_PC_GEN)	46.154			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Gatherers Percent Individuals (GAT_PC_CNT)	73.377			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Gatherers Percent Genera (GAT_PC_GEN)	38.462			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Scrapers Percent Individuals (SCR_PC_CNT)	3.247			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Shredders Percent Individuals (SHR_PC_CNT)	1.299			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Insect Taxa (INSECT_T)	28			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Insect Percent Individuals (INSECT_PI)	59.341			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	EPT Taxa (EPT_T)	8			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Dominance 3 Percent Individuals (DOM3_PI)	54.396			

Monitoring Station

Station ID 10032140
 Station Name Linnunpuro Creek on County Highway C

Show specific parameter: 

Sample Results

[Previous](#) 101-106 of 106 [Next](#)

Project	Date/Time	DNR Parameter	Species Result	Units Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Intolerant EPT 2 Percent Individuals (INTOL_EPT2_PI)	0		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Tolerant Chir Percent Individuals (TOL_CHIR8_PI)	4.945		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Functional Trait Niches (ECOFTN)	8		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Amph Isop Percent Individuals (A_I_PC_CNT)	29.87		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	Species Richness (Wadable IBI Intermediate)	35		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/20/2017 12:00 AM	WATER COLOR (VISUAL)	STAINED		

Monitoring Station

Station ID 10022049
 Station Name West Fork Montreal River - Kimball At Center Dr

Show specific parameter: <Show All> ▼

Sample Results

Previous 276-300 of 645 Next

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/24/2017 03:00 PM	ZINC TOTAL REC		1.27	ug/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/24/2017 03:00 PM	CADMIUM TOTAL RECOVERABLE		ND	ug/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/24/2017 03:00 PM	LEAD TOTAL REC		0.200	ug/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/24/2017 03:00 PM	CHROMIUM TOTAL RECOVERABLE		0.477	ug/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/24/2017 03:00 PM	COPPER TOT REC		1.16	ug/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/24/2017 03:00 PM	MANGANESE, TOTAL RECOVERABLE		55.5	ug/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/24/2017 03:00 PM	TRANSPARENCY TUBE MEASUREMENT		>120.0	CM		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/24/2017 03:00 PM	MERCURY TOTAL		4.31	ng/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	10/24/2017 03:00 PM	TURBIDITY, LAB NEPHELOMETRIC NTU		8.00	NTU		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	CONDUCTIVITY, UMHOS/CM @ 25C		78	UMHOS/CM		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	DISSOLVED OXYGEN FIELD		10.5	MG/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	OXYGEN, DISSOLVED, PERCENT OF SATURATION %		107.3	%		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	PH FIELD		7.0	SU		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Average Stream Width of Reach (m)		13.0	METERS		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Average Stream Depth of Reach (m)		0.3	METERS		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Water Temperature		16.8	DEGREES C		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Measured Stream Velocity		0.6	m/s		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Average across all reps: Estimated Velocity		Fast (>0.5 m/s)	m/s		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Average across all reps: habitat type		Riffle			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Sand %		10	%		

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Canopy Cover at sample site (%)?	0	%
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Embeddedness of substrate at sample site (%):	0	%
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Rubble %	50	%
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Gravel %	40	%
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Pollutant Sources, Local: Point Sources	PL - Present/Low Impact	

Monitoring Station

Station ID 10022049
 Station Name West Fork Montreal River - Kimball At Center Dr

Show specific parameter:

Sample Results

[Previous](#) 301-325 of 645 [Next](#)

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Pollutant Sources, Local: Construction Runoff		N - Not a problem			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Pollutant Sources, Local: Urban Runoff		N - Not a problem			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Pollutant Sources, Local: Streambank Erosion		N - Not a problem			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Pollutant Sources, Local: Septic Systems		N - Not a problem			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Pollutant Sources, Local: Tile Drains		N - Not a problem			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Pollutant Sources, Local: Cropland Runoff		N - Not a problem			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Pollutant Sources, Local: Barnyard Runoff		N - Not a problem			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Factors Affecting Habitat, Local: Wetlands		N - Not a problem			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Factors Affecting Habitat, Local: Low Flows		N - Not a problem			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Factors Affecting Habitat, Local: Downstream Channelization		N - Not a problem			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Factors Affecting Habitat, local: Sludge Deposits		N - Not a problem			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Water Quality Indicators, local: Iron Bacteria		N - Not a problem			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Water Quality Indicators, local: Slimes		N - Not a problem			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Water Quality Indicators, Local: Planktonic Algae		N - Not a problem			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Water Quality Indicators: Local Filamentous Algae		N - Not a problem			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Water Quality Indicators, Local: Macrophytes		N - Not a problem			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Water Quality Indicators, Local: Chlorine		N - Not a problem			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macro Habitat, Water Quality Indicators, Local: Turbidity		N - Not a problem			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Total sampling time in minutes?		1.0	Minutes		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Estimated area sampled (in m2)?		1.5	METERS SQUARE		

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Number of samples in composite?	1
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Reason for sampling?	Other: TWA Project
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Macrophytes	PL - Present/Low Impact
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Filamentous Algae	N - Not a problem
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Planktonic Algae	PL - Present/Low Impact

Monitoring Station

Station ID 10022049
Station Name West Fork Montreal River - Kimball At Center Dr

Show specific parameter: <Show All> 

Sample Results

Previous 326-350 of 645 Next

Project	Date/Time	DNR Parameter	Species	Result	Units Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Local: Diatoms/Periphyton		PL - Present/Low Impact		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Diatoms/Periphyton		PL - Present/Low Impact		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Slimes		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Iron Bacteria		U - Uncertain		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Sludge Deposits		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Local: Thermal		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Thermal		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Turbidity		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Sedimentation		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Local: Scour/Channel Incision		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Scour/Channel Incision		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Local: Bank Erosion		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Local: Upstream Channelization		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Upstream Channelization		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Downstream Channelization		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Low Flow		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Upstream Impoundments		PL - Present/Low Impact		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Local: Downstream Impoundment		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Downstream Impoundment		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Chlorine		N - Not a problem		

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Local: Organic Toxics	N - Not a problem
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Organic Toxics	N - Not a problem
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Local: Inorganic Toxics	N - Not a problem
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Inorganic Toxics	N - Not a problem
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Local: Nutrients	N - Not a problem

Monitoring Station

Station ID 10022049
Station Name West Fork Montreal River - Kimball At Center Dr

Show specific parameter: <Show All> 

Sample Results

[Previous](#) 351-375 of 645 [Next](#)

Project	Date/Time	DNR Parameter	Species	Result	Units Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Nutrients		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Local: Dissolved Oxygen		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Watershed-wide: Dissolved Oxygen		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat, Pollutant Source: Watershed-wide Urban Runoff		PL - Present/Low Impact		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat, Pollutant Source: Watershed-wide Construction Runoff		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat, Pollutant Source: Watershed-wide Point Sources		PL - Present/Low Impact		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat, Pollutant Source: Watershed-wide Cropland Runoff		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat, Pollutant Source: Watershed-wide Streambank Erosion		PL - Present/Low Impact		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat, Pollutant Source: Watershed-wide Barnyard Runoff		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat, Pollutant Source: Watershed-wide Tile Drains Organic Soil		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat, Pollutant Source: Watershed-wide Septic Systems		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat Effect: Local Tributaries		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat Effect: Watershed-wide Tributaries		PL - Present/Low Impact		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat Effect: Local Springs		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat Effect: Watershed-wide Springs		U - Uncertain		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat Effect: Watershed-wide Wetland		PL - Present/Low Impact		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat, Pollutant Source: Watershed-wide Tile Drains Mineral Soils		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Local: Upstream Impoundment		PL - Present/Low Impact		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Local: Sedimentation		N - Not a problem		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate habitat influence, Local: Tile Drainage Mineral Soils		N - Not a problem		

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Percent Sample Sorted	13
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	PLECOPTERA CAPNIIDAE PARACAPNIA ANGULATA	1
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	PLECOPTERA PERLIDAE ACRONEURIA	2
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	PLECOPTERA PERLIDAE PARAGNETINA MEDIA	4
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	EPHEMEROPTERA BAETIDAE ACENTRELLA TURBIDA	1

Monitoring Station

Station ID 10022049
 Station Name West Fork Montreal River - Kimball At Center Dr

Show specific parameter: <Show All> 

Sample Results

[Previous](#) 376-400 of 645 [Next](#)

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	EPHEMEROPTERA HEPTAGENIIDAE		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	EPHEMEROPTERA HEPTAGENIIDAE EPEORUS VITREUS		10			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	EPHEMEROPTERA HEPTAGENIIDAE MACCAFFERTIUM		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	EPHEMEROPTERA HEPTAGENIIDAE MACCAFFERTIUM MODESTUM		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	EPHEMEROPTERA HEPTAGENIIDAE MACCAFFERTIUM VICARIUM		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	EPHEMEROPTERA HEPTAGENIIDAE LEUCROCUTA		9			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	EPHEMEROPTERA LEPTOPHLEBIIDAE PARALEPTOPHLEBIA		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	EPHEMEROPTERA ISONYCHIIDAE ISONYCHIA		4			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	TRICHOPTERA GLOSSOSOMATIDAE GLOSSOSOMA		20			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	TRICHOPTERA HYDROPSYCHIDAE CHEUMATOPSYCHE		8			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	TRICHOPTERA HYDROPSYCHIDAE CERATOPSYCHE		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	TRICHOPTERA HYDROPSYCHIDAE CERATOPSYCHE BRONTA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	TRICHOPTERA HYDROPSYCHIDAE CERATOPSYCHE MOROSA MOROSA FORM SCHMUDE, HILSENHOFF 1986		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	TRICHOPTERA HYDROPSYCHIDAE CERATOPSYCHE SPARNA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	TRICHOPTERA HYDROPSYCHIDAE CERATOPSYCHE WALKERI		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	TRICHOPTERA HYDROPTILIDAE LEUCOTRICHIA PICTIPES		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	TRICHOPTERA LEPIDOSTOMATIDAE LEPIDOSTOMA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	TRICHOPTERA PHILOPOTAMIDAE CHIMARRA		7			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	TRICHOPTERA PHILOPOTAMIDAE CHIMARRA ATERRIMA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	TRICHOPTERA PHILOPOTAMIDAE CHIMARRA SOCIA		3			

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	TRICHOPTERA PHILOPOTAMIDAE -- PUPA	1
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	TRICHOPTERA RHYACOPHILIDAE RHYACOPHILA	1
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	MEGALOPTERA CORYDALIDAE NIGRONIA SERRICORNIS	1
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	COLEOPTERA ELMIDAE OPTIOSERVUS	6
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	COLEOPTERA ELMIDAE OPTIOSERVUS FASTIDITUS	1

Monitoring Station

Station ID 10022049
 Station Name West Fork Montreal River - Kimball At Center Dr

Show specific parameter: <Show All> ▼

Sample Results

[Previous](#) 401-425 of 645 [Next](#)

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	COLEOPTERA ELMIDAE OPTIOSERVUS TRIVITTATUS		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	COLEOPTERA ELMIDAE STENELMIS		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	COLEOPTERA ELMIDAE STENELMIS CRENATA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	DIPTERA TIPULIDAE ANTOCHA		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	DIPTERA DIAMESINAE 2 DIAMESA		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 TANYTARSUS		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 MICROTENDIPES PEDELLUS GROUP PINDER, REISS 1983		2			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	DIPTERA TANYPODINAE 0 RHEOPELOPIA ACRA GROUP EPLER 2001		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	DIPTERA ORTHOCLADIINAE 1 NANOCLADIUS (PLECOPTERACOLUTHUS) SPECIES #5 JACOBSEN IN PRESS		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	DIPTERA ORTHOCLADIINAE 1 ORTHOCLADIUS (EUORTHOCLADIUS) RIVICOLA		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 PHAENOPSECTRA OBEDIENS GROUP EPLER 2001		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 POLYPEDILUM (URESIPEDILUM) AVICEPS		20			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	DIPTERA CHIRONOMINAE 4 POLYPEDILUM (URESIPEDILUM) FLAVUM		6			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	LUMBRICULIDA LUMBRICULIDAE LUMBRICULUS		3			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Ephemera		1			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	TRANSPARENCY TUBE MEASUREMENT		120	CM		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Macroinvertebrate Index of Biological Integrity (IBI), Wadable		8.77088			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	HILSENHOFF'S BIOTIC INDEX (HBI)		2.515			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	FAMILY-LEVEL BIOTIC INDEX (FBI)		3.723			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	HBI Max 10		2.518			

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	SPECIES RICHNESS	36
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	GENERA RICHNESS	29
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	PERCENT EPT INDIVIDUALS	63
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	PERCENT EPT GENERA	55
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	PERCENT CHIRONOMIDAE INDIVIDUALS	24

Monitoring Station

Station ID 10022049
 Station Name West Fork Montreal River - Kimball At Center Dr

Show specific parameter: <Show All>

Sample Results

Previous 426-450 of 645 Next

Project	Date/Time	DNR Parameter	Species Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	SHANNON'S DIVERSITY INDEX	4.045			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	PERCENT SCRAPERS	37			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	PERCENT FILTERER	23			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	PERCENT SHREDDERS	19			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	PERCENT GATHERERS	15			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Mean Pollution Tolerance Value	2.889			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	DEPO Percent Individuals (DEP_PC_CNT)	19.149			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	DEPO Genera (DEPO_G)	9			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	DEPO, percent genera (DEP_PC_GEN)	25.714			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	EPT Genera (EPT_GENERA)	16			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	EPT Individuals (EPT_COUNT)	90			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	EPT Percent Individuals (EPT_PC_CNT)	63.83			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Amph Percent Individuals (AMP_PC_CNT)	0			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	EPT Percent Genera (EPT_PC_GEN)	57.143			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Isop Percent Individuals (ISO_PC_CNT)	0			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Isop Genera (ISOP_G)	0			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Isop Percent Genera (ISO_PC_GEN)	0			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Dipt Percent Genera (DIP_PC_GEN)	32.143			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Dipt Percent Individuals (DIP_PC_CNT)	26.241			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Chir Percent Individuals (CHI_PC_CNT)	24.823			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Chir Percent Genera (CHI_PC_GEN)	28.571			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Gatherers Percent Individuals (GAT_PC_CNT)	12.766			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Gatherers Percent Genera (GAT_PC_GEN)	21.429			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Scrapers Percent Individuals (SCR_PC_CNT)	37.589			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Shredders Percent Individuals (SHR_PC_CNT)	19.858			

Monitoring Station

Station ID 10022049
 Station Name West Fork Montreal River - Kimball At Center Dr

Show specific parameter: <Show All>

Sample Results

Previous 451-475 of 645 Next

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Insect Taxa (INSECT_T)		35			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Insect Percent Individuals (INSECT_PI)		97.917			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	EPT Taxa (EPT_T)		21			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Dominance 3 Percent Individuals (DOM3_PI)		40.972			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Intolerant EPT 2 Percent Individuals (INTOL_EPT2_PI)		47.917			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Tolerant Chir Percent Individuals (TOL_CHIR8_PI)		0			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Functional Trait Niches (ECOFTN)		17			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Amph Isop Percent Individuals (A_I_PC_CNT)		0			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	Species Richness (Wadable IBI Intermediate)		36			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/29/2017 12:00 AM	WATER COLOR (VISUAL)		STAINED			
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/28/2017 01:25 PM	SUSPENDED SOLIDS TOTAL		1.6	MG/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/28/2017 01:25 PM	ALKALINITY TOTAL CaCO3		21.9	MG/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/28/2017 01:25 PM	CALCIUM TOTAL		8900	UG/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/28/2017 01:25 PM	MAGNESIUM TOTAL		2250	UG/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/28/2017 01:25 PM	SODIUM TOTAL		2920	UG/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/28/2017 01:25 PM	POTASSIUM, TOTAL		0.603	MG/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/28/2017 01:25 PM	CHLORIDE		7.8	MG/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/28/2017 01:25 PM	SULFATE TOTAL		2.5	MG/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/28/2017 12:00 AM	NITROGEN TOTAL		0.647	MG/L		
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/28/2017 12:00 AM	PHOSPHORUS TOTAL		0.0451	MG/L		

Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/27/2017 01:30 PM	TEMPERATURE FIELD	16.9	C
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/27/2017 01:30 PM	CLOUD COVER	100	%
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/27/2017 01:30 PM	STREAM FLOW - CFS	54.0	CFS
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/27/2017 01:30 PM	CONDUCTIVITY FIELD	79	UMHOS/CM
Montreal River Targeted Watershed Assessment, Iron County, 2017-2018-2019	09/27/2017 01:30 PM	DISSOLVED OXYGEN FIELD	10.2	MG/L

Monitoring Station

Station ID 10022050
 Station Name West Fork Montreal River - Us 2

Show specific parameter:

Sample Results

Previous 1-25 of 107 Next

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
NOR NC Stream Stratified Sites 2010, 2011	09/02/2011 01:30 PM	TEMPERATURE FIELD		23.0	C		
NOR NC Stream Stratified Sites 2010, 2011	09/02/2011 01:30 PM	AMBIENT AIR TEMPERATURE - FIELD		26.0	C		
NOR NC Stream Stratified Sites 2010, 2011	09/02/2011 01:30 PM	CLOUD COVER		50	%		
NOR NC Stream Stratified Sites 2010, 2011	09/02/2011 01:30 PM	CONDUCTIVITY FIELD		86	UMHOS/CM		
NOR NC Stream Stratified Sites 2010, 2011	09/02/2011 01:30 PM	TEMPERATURE AT LAB		ICED	C		
NOR NC Stream Stratified Sites 2010, 2011	09/02/2011 01:30 PM	DISSOLVED OXYGEN FIELD		8.4	MG/L		
NOR NC Stream Stratified Sites 2010, 2011	09/02/2011 01:30 PM	OXYGEN, DISSOLVED, PERCENT OF SATURATION %		97.7	%		
NOR NC Stream Stratified Sites 2010, 2011	09/02/2011 01:30 PM	PH FIELD		7.3	SU		
NOR NC Stream Stratified Sites 2010, 2011	09/02/2011 01:30 PM	PHOSPHORUS TOTAL		0.036	MG/L		
NOR NC Stream Stratified Sites 2010, 2011	09/02/2011 01:30 PM	TRANSPARENCY TUBE MEASUREMENT		>120.0	CM		
2018 CWA Impairment Assessments	09/01/2011 12:00 AM	Wadeable Stream 10 Year Mean FIBI Assessment Value		90			
2018 CWA Impairment Assessments	09/01/2011 12:00 AM	Assessment River Station Natural Community		COOL-COLD MAINSTEM			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	PLECOPTERA CAPNIIDAE PARACAPNIA ANGULATA		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	PLECOPTERA PERLIDAE		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	PLECOPTERA PERLIDAE ACRONEURIA		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	PLECOPTERA PERLIDAE PARAGNETINA MEDIA		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	EPHEMEROPTERA BAETIDAE BAETIS INTERCALARIS		3			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	EPHEMEROPTERA BAETIDAE ACENTRELLA TURBIDA		12			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	EPHEMEROPTERA EPHEMERELLIDAE EPHEMERELLA		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	EPHEMEROPTERA HEPTAGENIIDAE		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	EPHEMEROPTERA HEPTAGENIIDAE EPEORUS VITREUS		5			

2011

NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	EPHEMEROPTERA HEPTAGENIIDAE MACCAFFERTIUM	8
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	EPHEMEROPTERA HEPTAGENIIDAE LEUCROCUTA	19
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	EPHEMEROPTERA LEPTOPHLEBIIDAE PARALEPTOPHLEBIA	30
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	EPHEMEROPTERA LEPTOPHLEBIIDAE PARALEPTOPHLEBIA MOLLIS	11

Monitoring Station

Station ID 10022050
 Station Name West Fork Montreal River - Us 2

Show specific parameter:

Sample Results

[Previous](#) 26-50 of 107 [Next](#)

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	TRICHOPTERA GLOSSOSOMATIDAE GLOSSOSOMA		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	TRICHOPTERA GLOSSOSOMATIDAE PROTOPTILA		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	TRICHOPTERA HYDROPSYCHIDAE CHEUMATOPSYCHE		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	TRICHOPTERA HYDROPSYCHIDAE CERATOPSYCHE		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	TRICHOPTERA HYDROPSYCHIDAE CERATOPSYCHE MOROSA MOROSA FORM SCHMUDE, HILSENHOFF 1986		2			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	TRICHOPTERA HYDROPSYCHIDAE CERATOPSYCHE SPARNA		6			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	TRICHOPTERA HYDROPSYCHIDAE CERATOPSYCHE WALKERI		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	TRICHOPTERA HYDROPTILIDAE LEUCOTRICHIA PICTIPES		7			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	TRICHOPTERA LEPIDOSTOMATIDAE LEPIDOSTOMA		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	TRICHOPTERA RHYACOPHILIDAE RHYACOPHILA VIBOX		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	COLEOPTERA ELMIDAE MACRONYCHUS GLABRATUS		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	COLEOPTERA ELMIDAE MICROCYLLOEPUS PUSILLUS		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	COLEOPTERA ELMIDAE OPTIOSERVUS		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	COLEOPTERA ELMIDAE OPTIOSERVUS TRIVITTATUS		15			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	COLEOPTERA ELMIDAE STENELMIS		2			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	DIPTERA ATHERICIDAE ATHERIX VARIEGATA		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	DIPTERA EMPIDIDAE HEMERODROMIA		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	DIPTERA TANYPODINAE 0 NATARSIA BALTIMOREA		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	DIPTERA ORTHOCLADIINAE 1 TVETENIA BAVARICA GROUP BODE 1983		1			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	DIPTERA CHIRONOMINAE 4		1			

NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	DIPTERA CHIRONOMINAE 4 RHEOTANYTARSUS	2
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	VENEROIDA PISIDIIDAE PISIDIUM	20
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	HAPLOTAXIDA TUBIFICIDAE	4
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	DIPTERA ORTHOCLADIINAE 1 ORTHOCLADIUS (EUORTHOCLADIUS) RIVICOLA	1
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	DIPTERA CHIRONOMINAE 4 POLYPEDILUM (URESIPEDILUM) FLAVUM	1

Monitoring Station

Station ID 10022050
 Station Name West Fork Montreal River - Us 2

Show specific parameter: <Show All> 

Sample Results

[Previous](#) 51-75 of 107 [Next](#)

Project	Date/Time	DNR Parameter	Species Result	Units Present/Absent	Lab Comments
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	EPHEMEROPTERA HEPTAGENIIDAE MACCAFFERTIUM VICARIUM/LUTEUM DIMICK, UNPUBL.	15		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	EPHEMEROPTERA BAETIDAE BAETIS FLAVISTRIGA GROUP	1		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	EPHEMEROPTERA EPHEMERELLIDAE TELOGANOPSIS DEFICIENS	25		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Macroinvertebrate Index of Biological Integrity (IBI), Wadable	10.06529		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	HILSENHOFF'S BIOTIC INDEX (HBI)	1.827		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	FAMILY-LEVEL BIOTIC INDEX (FBI)	3.102		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	HBI Max 10	2		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	SPECIES RICHNESS	34		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	GENERA RICHNESS	31		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	PERCENT EPT INDIVIDUALS	75		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	PERCENT EPT GENERA	58		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	PERCENT CHIRONOMIDAE INDIVIDUALS	3		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	SHANNON'S DIVERSITY INDEX	4.023		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	PERCENT SCRAPERS	33		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	PERCENT FILTERER	16		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	PERCENT SHREDDERS	1		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	PERCENT GATHERERS	46		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Macroinvertebrate Family Rank 1	HEPTAGENIIDAE		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Macroinvertebrate Family Rank 2	LEPTOPHLEBIIDAE		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Macroinvertebrate Family Rank 3	EPHEMERELLIDAE		

NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Macroinvertebrate Family Rank 4	ELMIDAE
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Macroinvertebrate Family Rank 5	PISIDIIDAE
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Macroinvertebrate Genus Rank 1	PARALEPTOPHLEBIA
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Macroinvertebrate Genus Rank 2	TELOGANOPSIS
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Macroinvertebrate Genus Rank 3	MACCAFFERTIUM

Monitoring Station

Station ID 10022050
 Station Name West Fork Montreal River - Us 2

Show specific parameter: <Show All> 

Sample Results

[Previous](#) 76-100 of 107 [Next](#)

Project	Date/Time	DNR Parameter	Species	Result	Units	Present/Absent	Lab Comments
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Macroinvertebrate Genus Rank 4		PISIDIUM			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Macroinvertebrate Genus Rank 5		LEUCROCUTA			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Mean Pollution Tolerance Value		2.758			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	DEPO Percent Individuals (DEP_PC_CNT)		25.269			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	DEPO Genera (DEPO_G)		11			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	DEPO, percent genera (DEP_PC_GEN)		34.375			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	EPT Genera (EPT_GENERA)		18			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	EPT Individuals (EPT_COUNT)		157			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	EPT Percent Individuals (EPT_PC_CNT)		84.409			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Amph Percent Individuals (AMP_PC_CNT)		0			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	EPT Percent Genera (EPT_PC_GEN)		62.069			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Isop Percent Individuals (ISO_PC_CNT)		0			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Isop Genera (ISOP_G)		0			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Isop Percent Genera (ISO_PC_GEN)		0			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Dipt Percent Genera (DIP_PC_GEN)		24.138			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Dipt Percent Individuals (DIP_PC_CNT)		4.839			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Chir Percent Individuals (CHI_PC_CNT)		3.763			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Chir Percent Genera (CHI_PC_GEN)		17.241			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Gatherers Percent Individuals (GAT_PC_CNT)		50			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Gatherers Percent Genera (GAT_PC_GEN)		34.483			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Scrapers Percent Individuals (SCR_PC_CNT)		37.634			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Shredders Percent Individuals (SHR_PC_CNT)		1.613			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Insect Taxa (INSECT_T)		32			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Insect Percent Individuals (INSECT_PI)		88.571			
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	EPT Taxa (EPT_T)		21			

Monitoring Station

Station ID 10022050
 Station Name West Fork Montreal River - Us 2

Show specific parameter: <Show All> 

Sample Results

[Previous](#) 101-107 of 107 [Next](#)

Project	Date/Time	DNR Parameter	Species Result	Units Present/Absent	Lab Comments
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Dominance 3 Percent Individuals (DOM3_PI)	35.714		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Intolerant EPT 2 Percent Individuals (INTOL_EPT2_PI)	66.667		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Tolerant Chir Percent Individuals (TOL_CHIR8_PI)	.476		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Functional Trait Niches (ECOFTN)	14		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Amph Isop Percent Individuals (A_I_PC_CNT)	0		
NOR NC Stream Stratified Sites 2010, 2011	09/29/2010 12:00 AM	Species Richness (Wadable IBI Intermediate)	34		
2018 CWA Impairment Assessments	09/29/2010 12:00 AM	Wadeable Stream 10 Year Mean mIBI Assessment Value	10.06529		