



2024 BioMonitoring Report

On behalf of the Alliance of Downriver Watersheds, **the Huron River Watershed Council and the Wayne County Dept. of Public Services, Water Quality Management Division** conduct benthic macroinvertebrate sampling in the fall and spring of each year. Staff and volunteers visit rivers and creeks across the Downriver region and collect samples of the critters that live in the stream and on the streambed.

“Benthic macroinvertebrates” are another word for stream insects, crustaceans, worms, and mollusks. The word “benthic” refers to the bottom of a lake or stream, the word “macro” means they are large enough to see with the naked eye, and “invertebrates” are creatures without backbones.

Benthic macroinvertebrates are good indicators of water and habitat quality because they live in the water year-round and are exposed to all of the stressors and threats that the stream faces, such as chemical pollution, high and fast water flow, and erosion.

2024 Summary

In 2024, HRWC and Wayne County sampled macroinvertebrates in the ADW 23 times, continuing the monitoring program that began in the mid-2000s.

The primary story that can be told from this data is that **most ADW streams have degraded water quality and habitat conditions due to heavily urbanized environments**. Streams regularly rank “Fair” or “Fairly Poor” according to the MiCorps scoring scheme (described below) which is indicative of low dissolved oxygen conditions and channelized habitat.

There are a few locations that are quite healthy! The best example of this is Woods Creek, a tributary to the Huron River that flows through the Lower Huron Metropark. Pollution-sensitive insects are regularly found here, and the habitat is varied which provides different living conditions for different types of creatures.

A user of this report can scan through the rankings in the table below, looking at the number of total insects and number of sensitive insects found at each location. Locations with sensitive insects- like Woods Creek, or Brooks Creek, will have the best water quality. Locations with the highest number of total insects, like Blakely Drain, will have the most varied habitats.

Understanding the numbers

HRWC and Wayne County use four different metrics of benthic macroinvertebrates to rate the benthic community. The first three of these metrics are calculated by the number of families in a sample. A “family” is a taxonomic term that indicates a type of macroinvertebrate (for example, it is possible to find about 10 different mayfly families in our area of Michigan). In general, the more families found, the healthier the stream.

1. **All insects:** This metric is a count of all insect families in the sample. It serves as a general indicator of stream health and habitat diversity in particular.
2. **EPT:** Standing for Ephemeroptera-Plecoptera-Trichoptera, this metric is a count of all mayfly, stonefly, and caddisfly families in the sample. These insects are sensitive to water temperature and oxygen availability. Stagnant or warm streams will not have many of these families.
3. **Sensitive:** There are 21 insect families found in SE Michigan that are particularly sensitive to organic pollution (i.e. fertilizers, animal and human waste). This metric is a count of those insect families. While up to six or seven of these families might be found in a single sample from very healthy streams in SE Michigan, they are very rare in the ADW.

MiCorps Water Quality Rating (WQR)

The MiCorps WQR is the fourth metric used to determine benthic population quality. This rating is one used by all stream monitoring groups involved in the Michigan Clean Water Corps Program (www.micorps.net), thus it is a statewide measure and used to compare Michigan streams. WQR is an index of biotic integrity (IBI) measure that is essentially a weighted average of insect pollution tolerance values, ranging from 0 to 10. A score of 0 is extremely healthy and a 10 is highly degraded.

The abundance of macroinvertebrates plays into this score as well. It is expected that any particular sample should have between 100-150 macroinvertebrate specimens to give the most accurate score. However, in highly degraded streams collecting this many is not always possible as populations will be low. Samples with very low abundances will essentially break the math of the MiCorps WQR and usually result in a higher score than the stream should have. Thus, if a collection comes back with less than 30 specimens it is automatically given a 10, and a collection with less than 60 specimens is automatically given a 7.

Trends: Trends are determined by simple linear regressions of the sample year vs. the four metrics described above. If at least two of the eight regressions (4 for fall, 4 for spring) are significant at the alpha level of 0.1 and trending the same direction, the trend is noted. Six data points are required before a regression is calculated.

As HRWC and Wayne County have recently taken on the new MiCorps WQR scoring and simultaneously changed several sample sites, most sites do not have enough data yet to show trends and will not for several years.

Cruise the InfoStream

The next several pages of this report give the most recent BioMonitoring results, but HRWC also has an online mapping system where you can see the location of each monitoring site as well as graphs over time for each metric.

<https://experience.arcgis.com/experience/b85de7c01c65458c8a545fbfff72d118/page/Benthic-Macroinvertebrates/>

Sampling in 2024

Spring 2024

Site ID	Site Name	Abundance	# Insect Families	# EPT Families	# Sensitive Families	MiCorps WQR Score and Rating	Trend
CD-1	Frank and Poet: SAHS-West	77	8	2	0	6.2, Fair	Not enough data
CD-2	Frank and Poet: SAHS-East	192	7	1	0	6.4, Fair	Stable
CD-3	Brownstown Creek: Woodhaven Community Park	99	4	0	0	7.5, Poor	Not enough data
CD-9	Blakely Drain: Merriman Rd	127	12	3	0	6.8, Fairly Poor	Not enough data
CD-14	Blakely Drain: Racho Rd	88	8	0	0	6.1, Fair	Stable
EC-6	Ecorse Creek South: Millward Park	74	4	2	0	6.9, Fairly Poor	Stable
EC-7	Ecorse Creek North: RA Young Recreation Center	77	4	1	0	7.6, Poor	Possibly declining
HR-2	Woods Creek: Lower Huron Metropark	94	14	7	2	5.8, Fair	Stable
HR-3	Brooks Drain	105	9	3	2	5.9, Fair	Not enough data
HR-5	Regan Drain: Willows	64	7	1	0	5.8, Fair	Stable

	Metropark Interloop Rd						
HR-7	Silver Creek: King Rd	118	9	2	1	6.9, Fairly Poor	Not enough data

Fall 2024

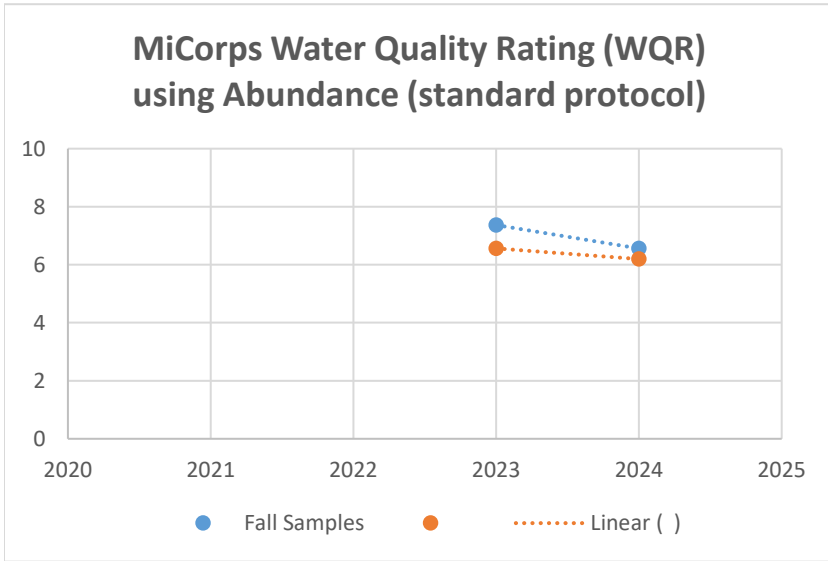
Site ID	Site Name	Abundance	# Insect Families	# EPT Families	# Sensitive Families	MiCorps WQR Score and Rating	Trend
CD-1	Frank and Poet: SAHS-West	91	5	1	0	6.6, Fairly Poor	Not enough data
CD-2	Frank and Poet: SAHS-East	128	5	1	0	7.0, Fairly Poor	Stable
CD-3	Brownstown Creek: Woodhaven Community Park	91	4	0	0	8.0, Poor	Stable
CD-9B	Blakely Drain: Middlebelt Rd	115	11	1	0	6.1, Fair	Not enough data
CD-11	Blakely Drain: Vining Rd	168	16	3	1	6.8, Fairly Poor	Not enough data
CD-14	Blakely Drain: Racho Rd	83	2	0	0	6.3, Fair	Stable
HR-1	Silver Creek: Flat Rock Community Park	51	7	0	0	7.0, Fairly Poor	Stable
HR-2	Woods Creek: Lower Huron Metropark	89	12	3	1	4.8, Good	Stable
HR-3	Brooks Drain	53	7	2	0	7.0, Fairly Poor	Stable
HR-5	Regan Drain: Willows Metropark Interloop Rd	58	7	2	0	7.0, Fairly Poor	Stable
HR-9	Port Creek: Armstrong Road	272	12	1	0	6.1, Fair	Stable
HR-10	Huron River: Flat Rock Boat Launch	62	10	4	0	5.6, Fair	Stable

Summary Sheet for ADW Macroinvertebrate Monitoring

Site Name: Frank and Poet: SAHS-West
 Site ID: CD-1
 Lat/Long: 42.1884988,-83.2159729

Sampled from: 2004 to 2006; 2023-2024
 Sampled by: Wayne County

Water Quality Rating		Degree of Organic Pollution
0.0-3.50	excellent	Pollution unlikely
3.51-4.50	very good	Slight pollution possible
4.51-5.50	good	Some pollution possible
5.51-6.50	fair	Fairly substantial pollution likely
6.51-7.50	fairly poor	Substantial pollution likely
7.51-8.50	poor	Very substantial pollution likely
8.51-10.0	very poor	Severe pollution likely



2023-2024

Trend using Linear Regression:

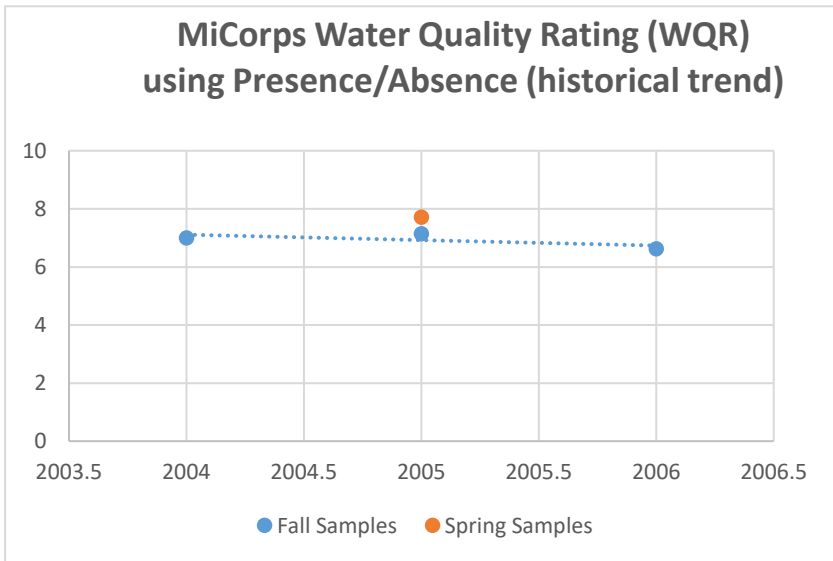
Fall: Not enough data
 Spring: Not enough data

Most Recent Samples:

6.2, Fair Spring 2024
 6.6, Fairly Poor Fall 2024

Average of Recent Samples

(Previous 3 Fall, 3 Spring)
 6.6, Fairly Poor



2004-2006

Trend using Linear Regression:

Fall: No significant change
 Spring: No significant change

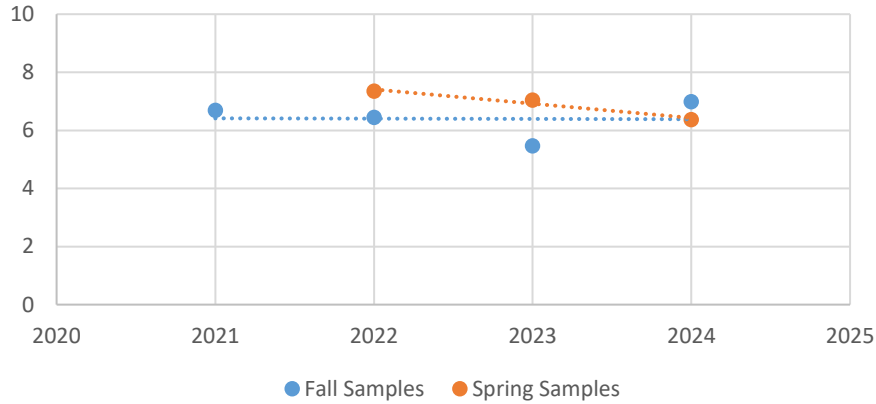
Fall Average Score: 6.9, Fairly Poor
 Spring Average Score: 7.7, Poor

Summary Sheet for ADW Macroinvertebrate Monitoring

Site Name: Frank and Poet: SAHS-East
 Site ID: CD-2
 Lat/Long: 42.187821, -83.214983

Sampled from: 2004 to the present
 Sampled by: Wayne County

MiCorps Water Quality Rating (WQR) using Abundance (standard protocol)



2021-2024

Trend using Linear Regression:

Fall: Stable
 Spring: Stable

Most Recent Samples:

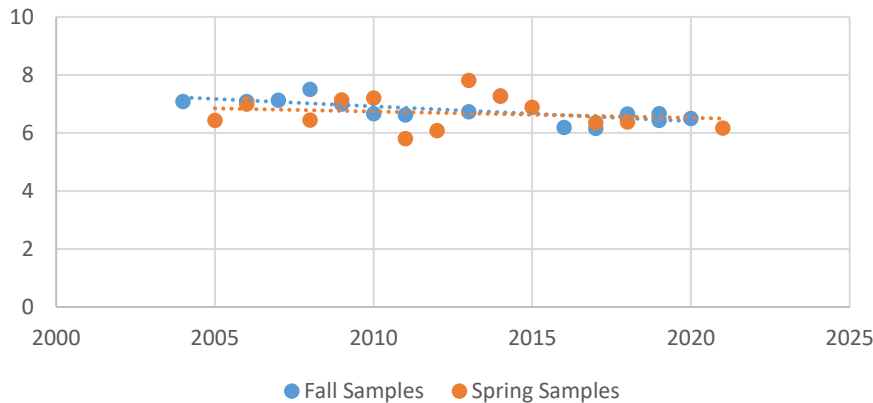
6.4, Fair Spring 2024
 7.0, Fairly Poor Fall 2024

Average of Recent Samples (Previous 3 Fall, 3 Spring)

6.6 Fairly Poor

Water Quality Rating		Degree of Organic Pollution	
0.0-3.50	excellent		Pollution unlikely
3.51-4.50	very good		Slight pollution possible
4.51-5.50	good		Some pollution possible
5.51-6.50	fair		Fairly substantial pollution likely
6.51-7.50	fairly poor		Substantial pollution likely
7.51-8.50	poor		Very substantial pollution likely
8.51-10.0	very poor		Severe pollution likely

MiCorps Water Quality Rating (WQR) using Presence/Absence (historical trend)



2004-2021

Trend using Linear Regression:

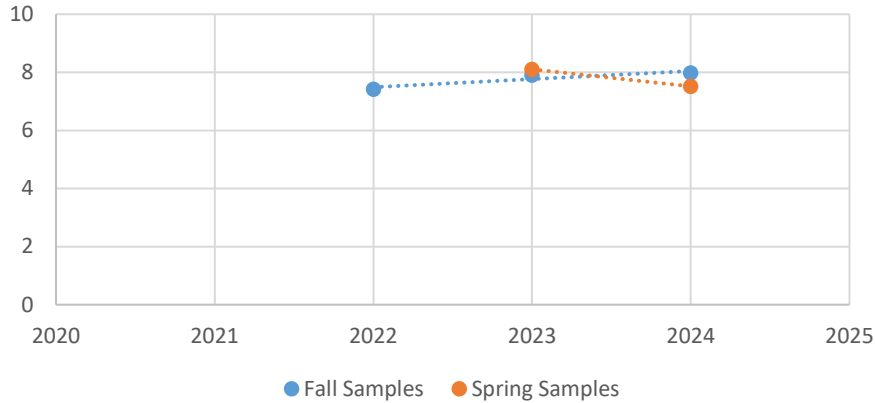
Fall: No significant change
 Spring: No significant change

Fall Average Score: 6.8, Fairly Poor
 Spring Average Score: 6.7, Fairly Poor

Summary Sheet for ADW Macroinvertebrate Monitoring

Brownstown Creek: Woodhaven
 Site Name: Community Park
 Site ID: CD-3
 Lat/Long: 42.1269, -83.2426
 Sampled from: 2005 to the present
 Sampled by: Wayne County

MiCorps Water Quality Rating (WQR) using Abundance (standard protocol)



2022-2024

Trend using Linear Regression:

Fall: Not enough data
 Spring: Not enough data

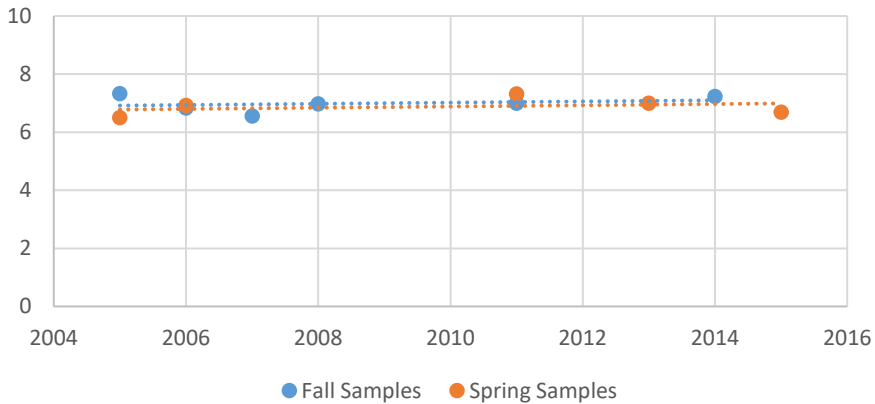
Most Recent Samples:

7.5, Poor Spring 2024
 8.0, Poor Fall 2024

Average of Recent Samples (Previous 3 Fall, 3 Spring)

7.7 Poor

MiCorps Water Quality Rating (WQR) using Presence/Absence (historical trend)



2005-2015

Trend using Linear Regression:

Fall: No significant change
 Spring: No significant change

Fall Average Score: 7.0, Fairly Poor

Spring Average Score: 6.9, Fairly Poor

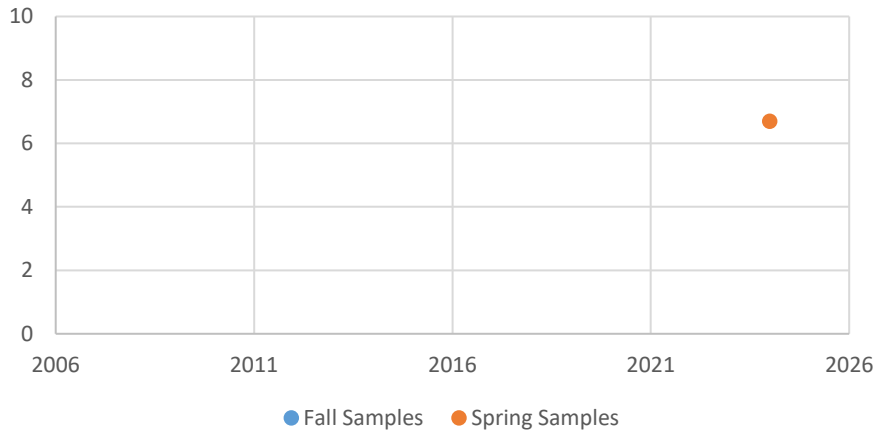
Water Quality Rating		Degree of Organic Pollution	
0.0-3.50	excellent		Pollution unlikely
3.51-4.50	very good		Slight pollution possible
4.51-5.50	good		Some pollution possible
5.51-6.50	fair		Fairly substantial pollution likely
6.51-7.50	fairly poor		Substantial pollution likely
7.51-8.50	poor		Very substantial pollution likely
8.51-10.0	very poor		Severe pollution likely

Summary Sheet for ADW Macroinvertebrate Monitoring

Site Name: Blakely Drain: Merriman Rd
 Site ID: CD-9
 Lat/Long: 42.1784007, -83.3448151

Sampled from: 2007 to 2017; 2024
 Sampled by: Wayne County

MiCorps Water Quality Rating (WQR) using Abundance (standard protocol)



Trend using Linear Regression:

Fall: No significant change
 Spring: No significant change

Most Recent Sample:

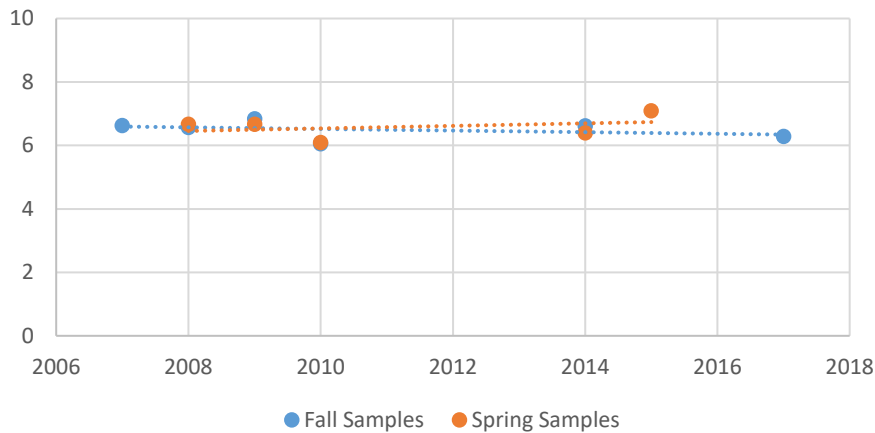
6.7, Fair Spring 2024

Average of Recent Samples (Previous 3 Fall, 3 Spring)

6.7, Fair

Water Quality Rating		Degree of Organic Pollution
0.0-3.50	excellent	Pollution unlikely
3.51-4.50	very good	Slight pollution possible
4.51-5.50	good	Some pollution possible
5.51-6.50	fair	Fairly substantial pollution likely
6.51-7.50	fairly poor	Substantial pollution likely
7.51-8.50	poor	Very substantial pollution likely
8.51-10.0	very poor	Severe pollution likely

MiCorps Water Quality Rating (WQR) using Presence/Absence



Trend using Linear Regression:

Fall: No significant change
 Spring: No significant change

Most Recent Sample:

6.3 Fall 2017
 Fair

Average of Recent Samples (Previous 3 Fall, 3 Spring)

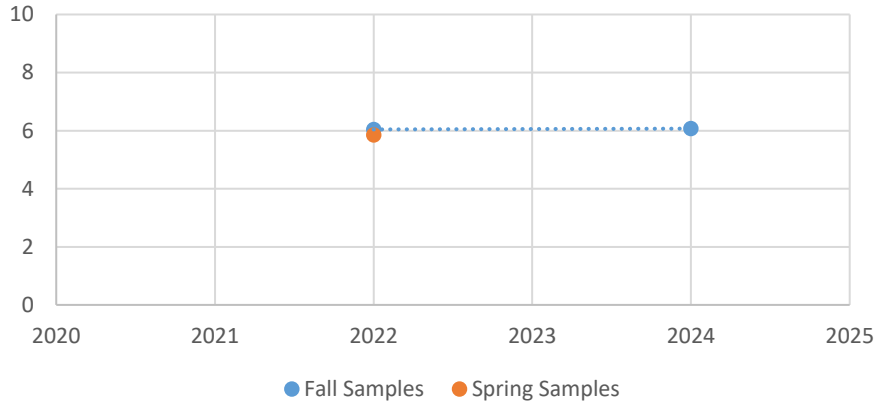
6.4
 Fair

Summary Sheet for ADW Macroinvertebrate Monitoring

Site Name: Blakely Drain: Middlebelt Rd
 Site ID: CD-9B
 Lat/Long: 42.179431, -83.325292

Sampled from: 2022 to the present
 Sampled by: Wayne County

MiCorps Water Quality Rating (WQR) using Abundance (standard protocol)



2022-2024

Trend using Linear Regression:

Fall: Not enough data
 Spring: Not enough data

Most Recent Samples:

5.8, Fair Spring 2022
 6.1, Fair Fall 2024

Average of Recent Samples (Previous 3 Fall, 3 Spring)

6.4 Fair

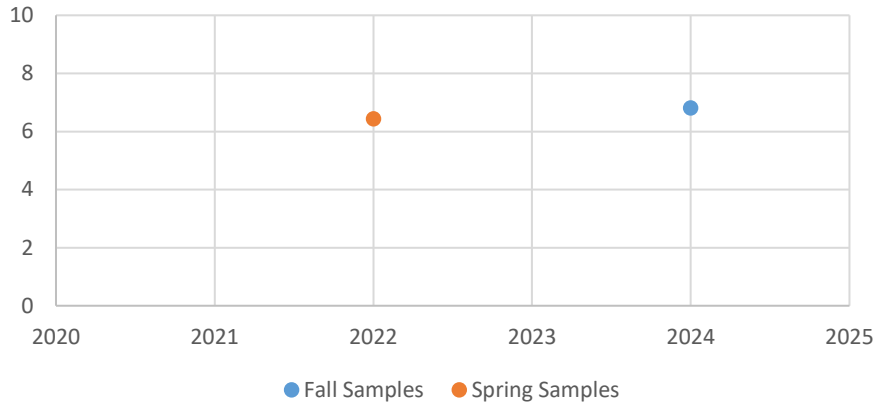
Water Quality Rating	Degree of Organic Pollution
0.0-3.50	excellent Pollution unlikely
3.51-4.50	very good Slight pollution possible
4.51-5.50	good Some pollution possible
5.51-6.50	fair Fairly substantial pollution likely
6.51-7.50	fairly poor Substantial pollution likely
7.51-8.50	poor Very substantial pollution likely
8.51-10.0	very poor Severe pollution likely

Summary Sheet for ADW Macroinvertebrate Monitoring

Site Name: Blakely Drain: Vining Rd
 Site ID: CD-11 (or CD-9A)
 Lat/Long: 42.176889, -83.364582

Sampled: 2000, 2022, 2024
 Sampled by: Wayne County

MiCorps Water Quality Rating (WQR) using Abundance (standard protocol)



2022-2024

Trend using Linear Regression:

Fall: Not enough data
 Spring: Not enough data

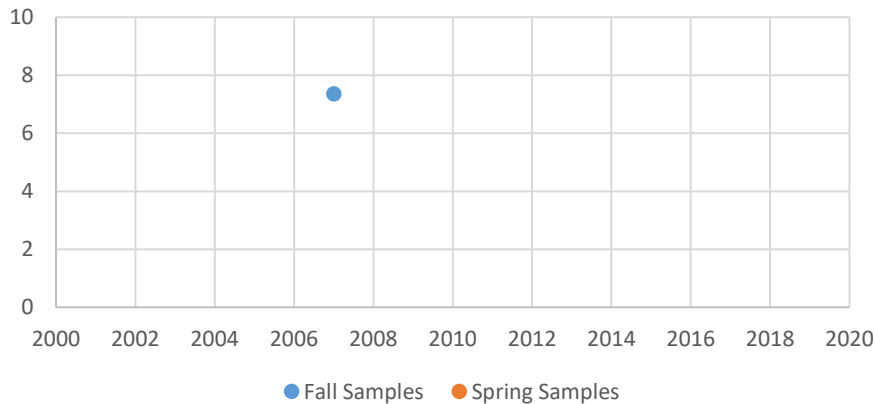
Most Recent Sample:

6.4, Fair Spring 2022
 6.8, Fairly Poor Fall 2024

Average of Recent Samples (Previous 3 Fall, 3 Spring)

6.6 Fairly Poor

MiCorps Water Quality Rating (WQR) using Presence/Absence



2007

Trend using Linear Regression:

Fall: Not enough data
 Spring: Not enough data

Most Recent Sample:

7.4, Fair Fall 2007








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Water Quality Rating		Degree of Organic Pollution	
0.0-3.50	excellent		Pollution unlikely
3.51-4.50	very good		Slight pollution possible
4.51-5.50	good		Some pollution possible
5.51-6.50	fair		Fairly substantial pollution likely
6.51-7.50	fairly poor		Substantial pollution likely
7.51-8.50	poor		Very substantial pollution likely
8.51-10.0	very poor		Severe pollution likely

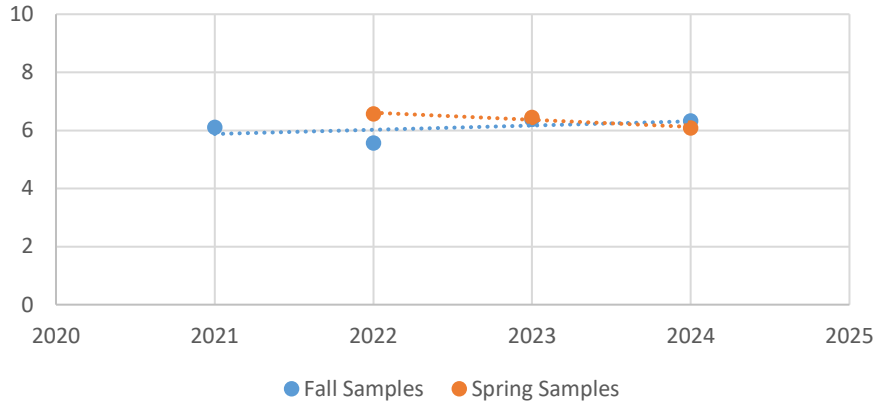
Summary Sheet for ADW Macroinvertebrate Monitoring

Site Name: Blakely Drain: Racho Rd
 Site ID: CD-14
 Lat/Long: 42.181968, -83.247419

Sampled from: 2011 to the present
 Sampled by: Wayne County

Water Quality Rating		Degree of Organic Pollution	
0.0-3.50	excellent		Pollution unlikely
3.51-4.50	very good		Slight pollution possible
4.51-5.50	good		Some pollution possible
5.51-6.50	fair		Fairly substantial pollution likely
6.51-7.50	fairly poor		Substantial pollution likely
7.51-8.50	poor		Very substantial pollution likely
8.51-10.0	very poor		Severe pollution likely

MiCorps Water Quality Rating (WQR) using Abundance (standard protocol)



2021-2024

Trend using Linear Regression:

Fall: Stable
 Spring: Stable

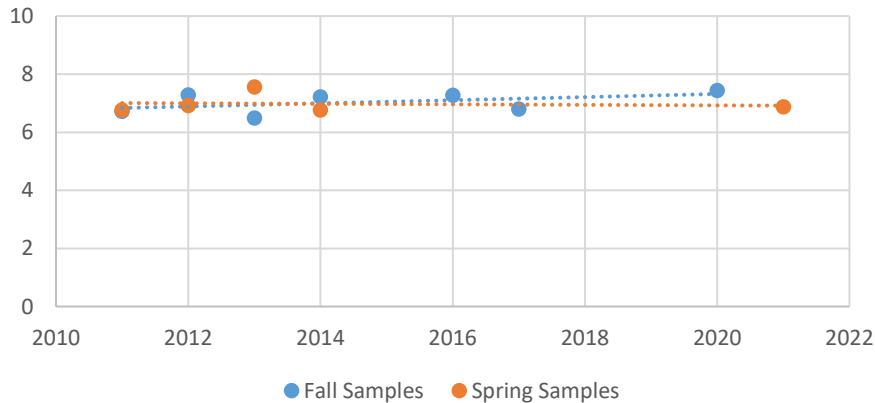
Most Recent Samples:

6.1, Fair Spring 2024
 6.3, Fair Fall 2024

Average of Recent Samples (Previous 3 Fall, 3 Spring)

6.2 Fair

MiCorps Water Quality Rating (WQR) using Presence/Absence



2011-2021

Trend using Linear Regression:

Fall: No significant change
 Spring: No significant change

Fall Average Score: 7.2, Fairly Poor

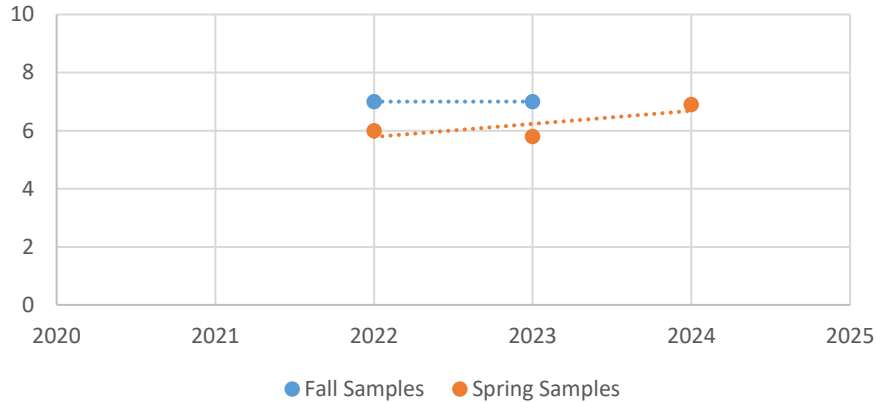
Spring Average Score: 7.0, Fairly Poor

Summary Sheet for ADW Macroinvertebrate Monitoring

Site Name: Ecorse Creek South: Millward Park
 Site ID: EC-6
 Lat/Long: 42.2322553, -83.2107835

Sampled from: 2007 to the present
 Sampled by: Wayne County (2007-2014)
 HRWC (2022-present)

MiCorps Water Quality Rating (WQR) using Abundance (standard protocol)



2022-2024

Trend using Linear Regression:

Fall: Not enough data
 Spring: Stable

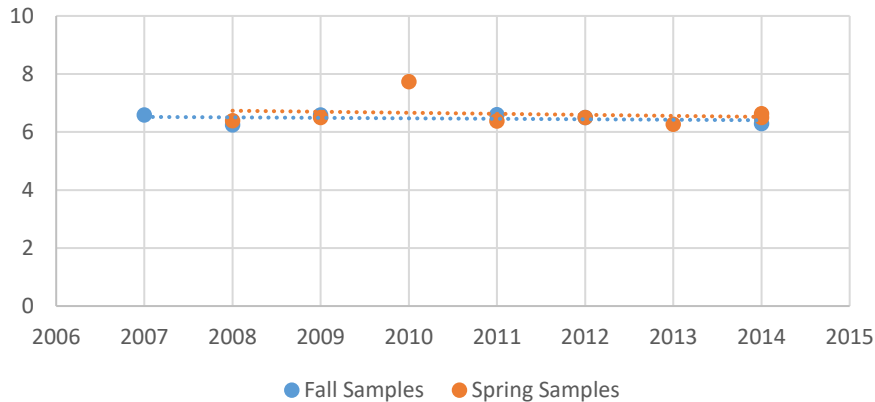
Most Recent Sample:

6.7, Very Poor Spring 2024
 7, Fairly Poor Fall 2023

Average of Recent Samples (Previous 3 Fall, 3 Spring)

6.6 Fairly Poor

MiCorps Water Quality Rating (WQR) using Presence/Absence (historical trend)



2007-2021

Trend using Linear Regression:

Fall: No significant change
 Spring: No significant change

Fall Average Score 6.5, Fair/ Fairly Poor

Spring Average Score 6.7, Fairly Poor

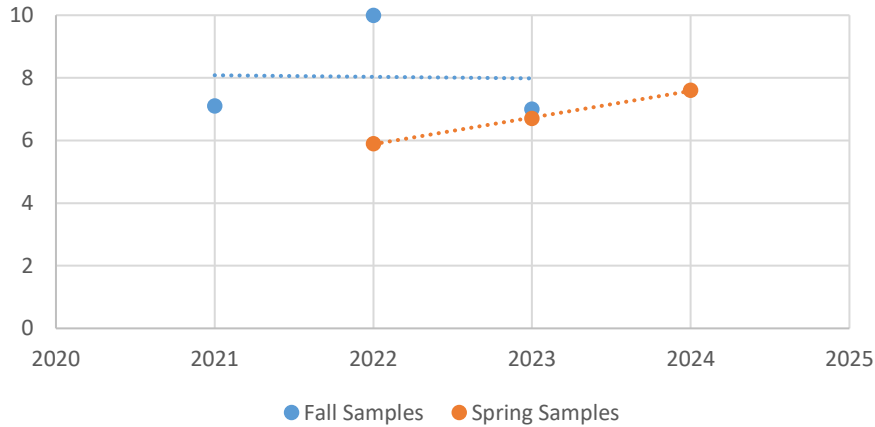
Water Quality Rating		Degree of Organic Pollution	
0.0-3.50	excellent		Pollution unlikely
3.51-4.50	very good		Slight pollution possible
4.51-5.50	good		Some pollution possible
5.51-6.50	fair		Fairly substantial pollution likely
6.51-7.50	fairly poor		Substantial pollution likely
7.51-8.50	poor		Very substantial pollution likely
8.51-10.0	very poor		Severe pollution likely

Summary Sheet for ADW Macroinvertebrate Monitoring

Ecorse Creek North: RA Young
 Site Name: Recreation Center
 Site ID: EC-7
 Lat/Long: 42.271773,-83.255188
 Sampled from: 2007 to the present
 Sampled by: Wayne County (2007-2021)
 HRWC (2022-present)

Water Quality Rating		Degree of Organic Pollution
0.0-3.50	excellent	Pollution unlikely
3.51-4.50	very good	Slight pollution possible
4.51-5.50	good	Some pollution possible
5.51-6.50	fair	Fairly substantial pollution likely
6.51-7.50	fairly poor	Substantial pollution likely
7.51-8.50	poor	Very substantial pollution likely
8.51-10.0	very poor	Severe pollution likely

MiCorps Water Quality Rating (WQR) using Abundance (standard protocol)



2021-2024

Trend using Linear Regression:

Fall: Stable
 Spring: Getting worse (3 points only)

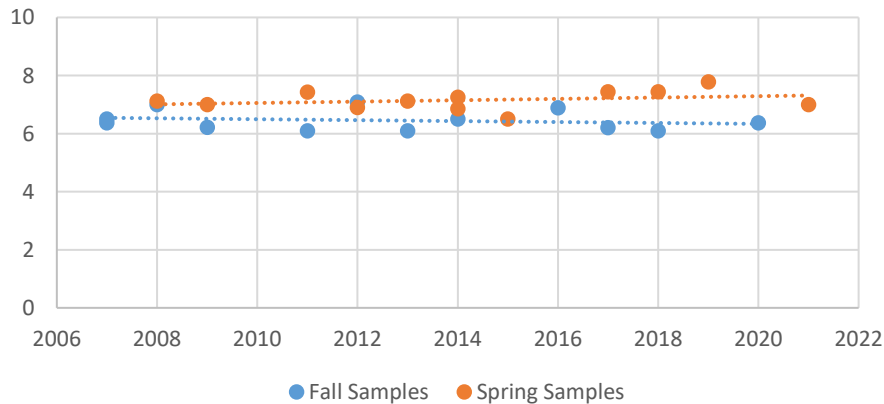
Most Recent Sample:

7.0, Fairly Poor Fall 2023
 7.7, Poor Spring 2024

Average of Recent Samples (Previous 3 Fall, 3 Spring)

7.3, Fairly Poor

MiCorps Water Quality Rating (WQR) using Presence/Absence (historical trend)



2007-2021

Trend using Linear Regression:

Fall: No significant change
 Spring: No significant change

Fall Average Score: 6.5, Fair/ Fairly Poor

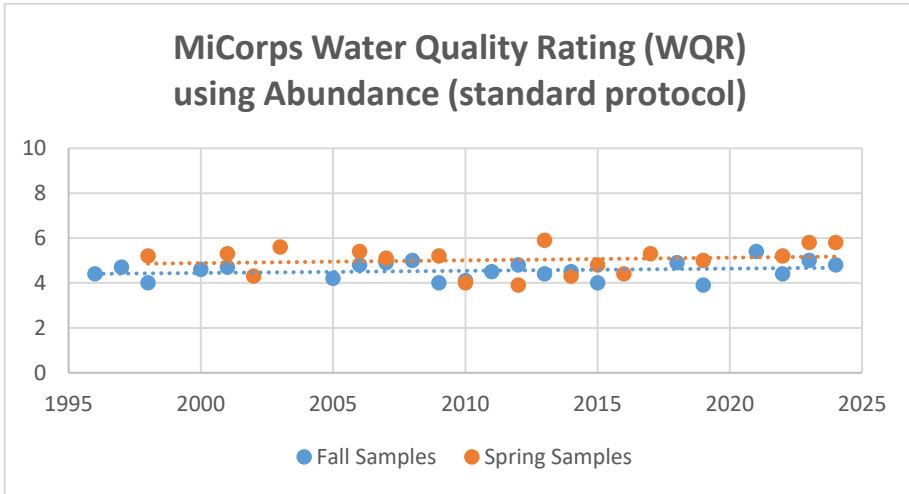
Spring Average Score: 7.2, Fairly Poor

Summary Sheet for ADW Macroinvertebrate Monitoring

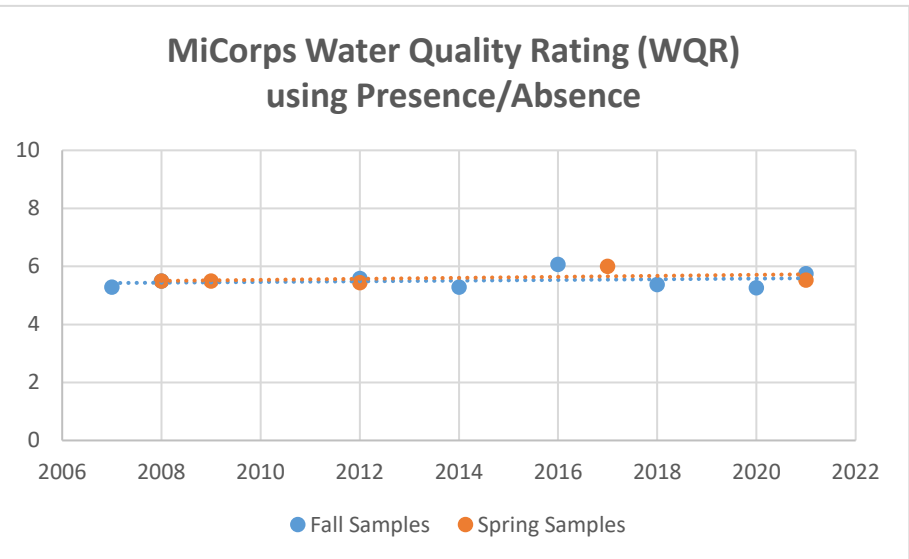
Woods Creek: Lower Huron
 Site Name: Metropark/Woods Creek Picnic Area
 Site ID: HR-2
 Lat/Long: 42.186967,-83.427956

Sampled from: 1996 to the present
 Sampled by: Wayne County (P/A, 2007-2021)
 HRWC (1996-present)

Water Quality Rating		Degree of Organic Pollution
0.0-3.50	excellent	Pollution unlikely
3.51-4.50	very good	Slight pollution possible
4.51-5.50	good	Some pollution possible
5.51-6.50	fair	Fairly substantial pollution likely
6.51-7.50	fairly poor	Substantial pollution likely
7.51-8.50	poor	Very substantial pollution likely
8.51-10.0	very poor	Severe pollution likely



1996-2024
 Trend using Linear Regression:
 Fall: No sig change
 Spring: No sig change
 Most Recent Sample:
 5.8, Fair Spring 2024
 4.8, Good Fall 2024
 Average of Recent Samples (Previous 3 Fall, 3 Spring)
 5.2, Good



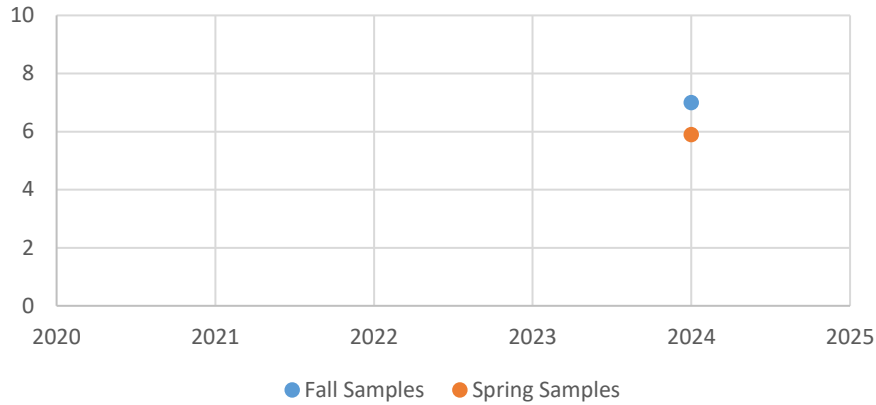
2007-2021
 Trend using Linear Regression:
 Fall: No significant change
 Spring: No significant change
 Fall Average Score 5.5, Good/Fair
 Spring Average Score 5.6, Fair

Summary Sheet for ADW Macroinvertebrate Monitoring

Site Name: Brooks Drain: Brooks Drain
 Site ID: HR-3
 Lat/Long: 42.1756445, -83.4281497

Sampled from: 2007 to 2010; 2020; 2024
 Sampled by: Wayne County

MiCorps Water Quality Rating (WQR) using Abundance (standard protocol)



2024

Trend using Linear Regression:

Fall: Not enough data
 Spring: Not enough data

Most Recent Sample:

5.9, Fair Spring 2024
 7.0, Fairly Poor Fall 2024

Average of Recent Samples (Previous 3 Fall, 3 Spring)

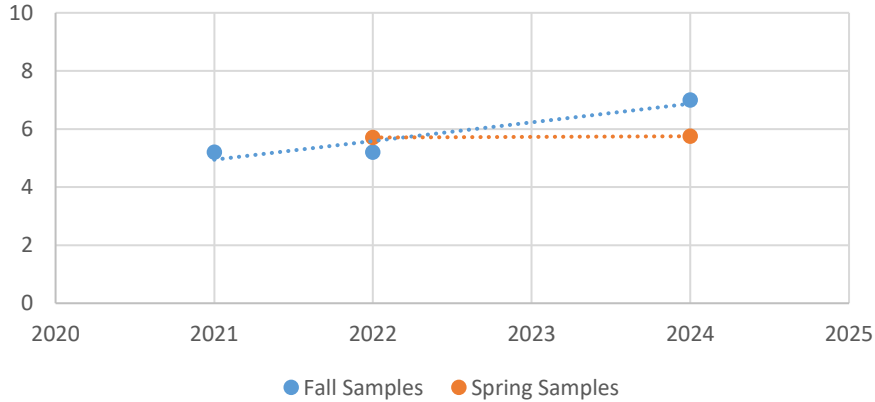
6.5, Fair/Fairly Poor

Water Quality Rating		Degree of Organic Pollution
0.0-3.50	excellent	Pollution unlikely
3.51-4.50	very good	Slight pollution possible
4.51-5.50	good	Some pollution possible
5.51-6.50	fair	Fairly substantial pollution likely
6.51-7.50	fairly poor	Substantial pollution likely
7.51-8.50	poor	Very substantial pollution likely
8.51-10.0	very poor	Severe pollution likely

Summary Sheet for ADW Macroinvertebrate Monitoring

Regan Drain: Willows Metropark
 Site Name: Interloop Road
 Site ID: HR-5
 Lat/Long: 42.126960,-83.377895
 Sampled from: 2007 to the present
 Sampled by: Wayne County (2007-2021)
 HRWC (2022-present)

MiCorps Water Quality Rating (WQR) using Abundance (standard protocol)



2021-2024

Trend using Linear Regression:

Fall: No sig. change
 Spring: Not enough data

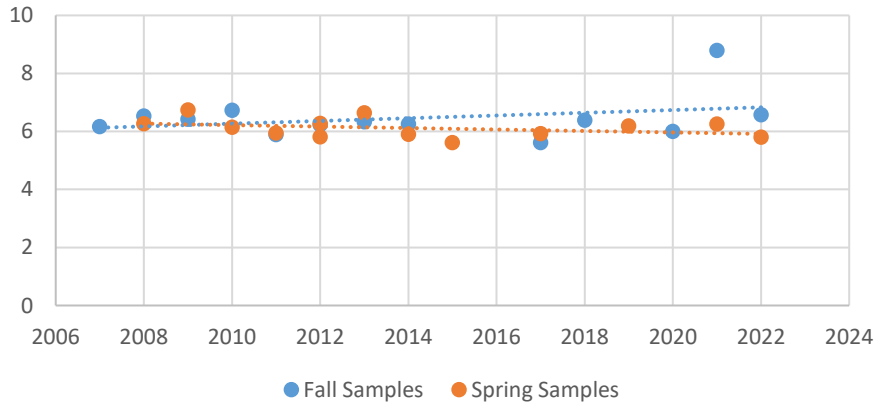
Most Recent Sample:

5.8, Fair Spring 2024
 7.0, Fairly Poor Fall 2024

Average of Recent Samples

(Previous 3 Fall, 3 Spring)
 5.5, Good/Fair

MiCorps Water Quality Rating (WQR) using Presence/Absence (historical)



2007-2015

Trend using Linear Regression:

Fall: No significant change
 Spring: No significant change

Fall Average Score 6.5, Fair/ Fairly Poor

Spring Average Score 7.2, Fairly Poor

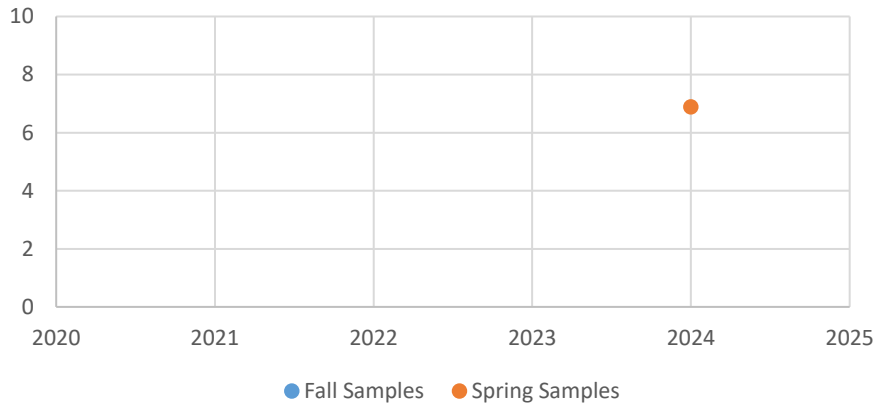
Water Quality Rating		Degree of Organic Pollution	
0.0-3.50	excellent		Pollution unlikely
3.51-4.50	very good		Slight pollution possible
4.51-5.50	good		Some pollution possible
5.51-6.50	fair		Fairly substantial pollution likely
6.51-7.50	fairly poor		Substantial pollution likely
7.51-8.50	poor		Very substantial pollution likely
8.51-10.0	very poor		Severe pollution likely

Summary Sheet for ADW Macroinvertebrate Monitoring

Site Name: Silver Creek: King Rd
 Site ID: HR-7
 Lat/Long: 42.1521766,-83.3301676

Sampled from: 2007 to 2018; 2024
 Sampled by: Wayne County

MiCorps Water Quality Rating (WQR) using Abundance (standard protocol)



2024

Trend using Linear Regression:

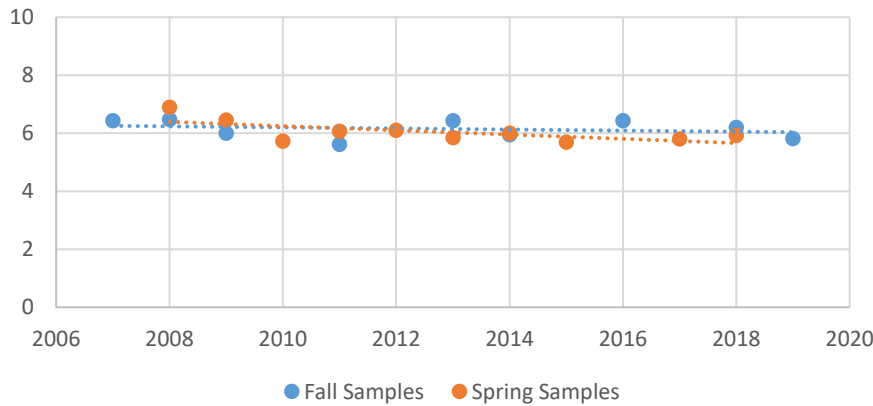
Fall: Not enough data
 Spring: Not enough data

Most Recent Sample:

6.9, Fair Spring 2024

Average of Recent Samples (Previous 3 Fall, 3 Spring)

MiCorps Water Quality Rating (WQR) using Presence/Absence



Trend using Linear Regression:

Fall: No significant change
 Spring: No significant change

Most Recent Sample:

5.8 Fall 2019

Fair

Average of Recent Samples (Previous 3 Fall, 3 Spring)

6.0

Fair

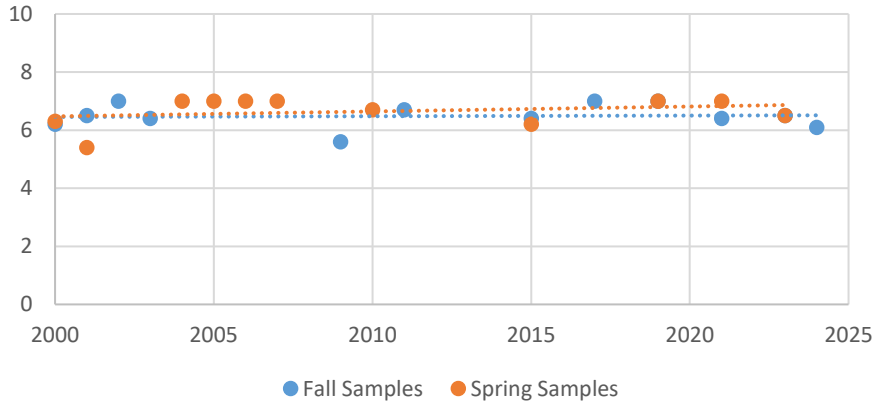
Water Quality Rating		Degree of Organic Pollution	
0.0-3.50	excellent		Pollution unlikely
3.51-4.50	very good		Slight pollution possible
4.51-5.50	good		Some pollution possible
5.51-6.50	fair		Fairly substantial pollution likely
6.51-7.50	fairly poor		Substantial pollution likely
7.51-8.50	poor		Very substantial pollution likely
8.51-10.0	very poor		Severe pollution likely

Summary Sheet for ADW Macroinvertebrate Monitoring

Site Name: Port Creek: Armstrong Road
 Site ID: HR-9
 Lat/Long: 42.074023, -83.284705

Sampled from: 2000 to the present
 Sampled by: HRWC

MiCorps Water Quality Rating (WQR) using Abundance (standard protocol)



2000-2024

Trend using Linear Regression:

Fall: No sig. trend
 Spring: No sig. trend

Most Recent Sample:

6.1, Fair Spring 2023
 6.1, Fair Fall 2024

Average of Recent Samples (Previous 3 Fall, 3 Spring)

5.8, Fair

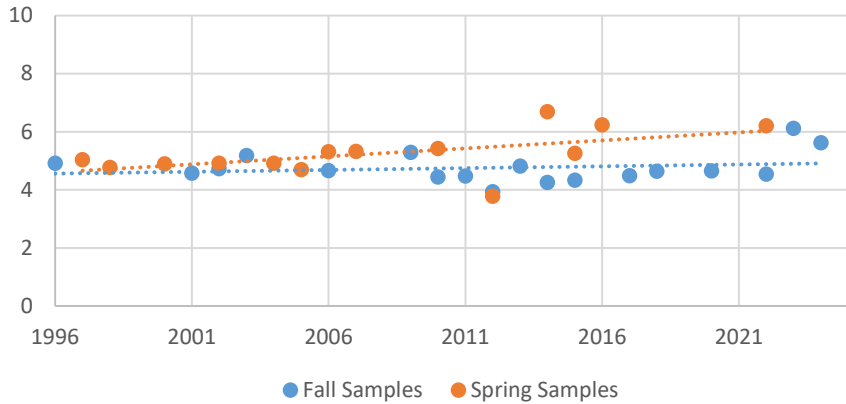
Water Quality Rating		Degree of Organic Pollution	
0.0-3.50	excellent		Pollution unlikely
3.51-4.50	very good		Slight pollution possible
4.51-5.50	good		Some pollution possible
5.51-6.50	fair		Fairly substantial pollution likely
6.51-7.50	fairly poor		Substantial pollution likely
7.51-8.50	poor		Very substantial pollution likely
8.51-10.0	very poor		Severe pollution likely

Summary Sheet for ADW Macroinvertebrate Monitoring

Site Name: Huron River at Flat Rock Boat Launch
 Site ID: HR-10
 Lat/Long: 42.096883, -83.295437

Sampled from: 1996 to the present
 Sampled by: HRWC

MiCorps Water Quality Rating (WQR) using Abundance (standard protocol)



1996-2024

Trend using Linear Regression:

Fall: No sig. change
 Spring: No sig. change

Most Recent Sample:

6.2, Fair Spring 2022
 5.6, Fair Fall 2024

Average of Recent Samples (Previous 3 Fall, 3 Spring)

5.7, Fair

Water Quality Rating

Degree of Organic Pollution

0.0-3.50	excellent		Pollution unlikely
3.51-4.50	very good		Slight pollution possible
4.51-5.50	good		Some pollution possible
5.51-6.50	fair		Fairly substantial pollution likely
6.51-7.50	fairly poor		Substantial pollution likely
7.51-8.50	poor		Very substantial pollution likely
8.51-10.0	very poor		Severe pollution likely