Site Results for Large River Interstate Sites

Chemung River at Chemung, NY (CHEM 12.0)

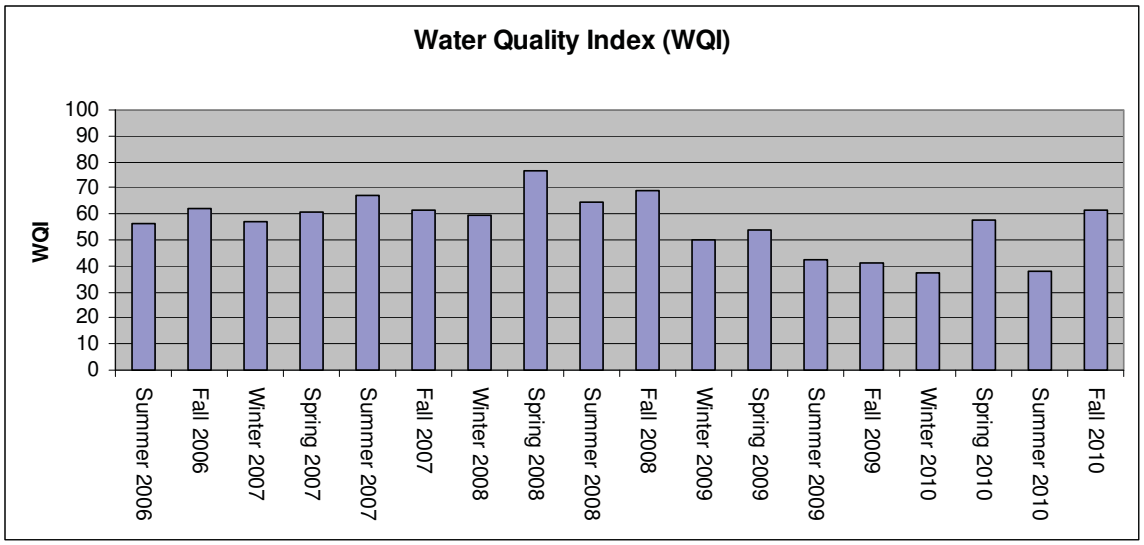
Group 1

Habitat Condition:

Physical habitat was rated as excellent at CHEM 12.0. The site scored 156 out of a possible 220. Staff noted optimal channel flow status and bank conditions but was concerned about sediment deposition and a lack of pool variability.

Water Quality:

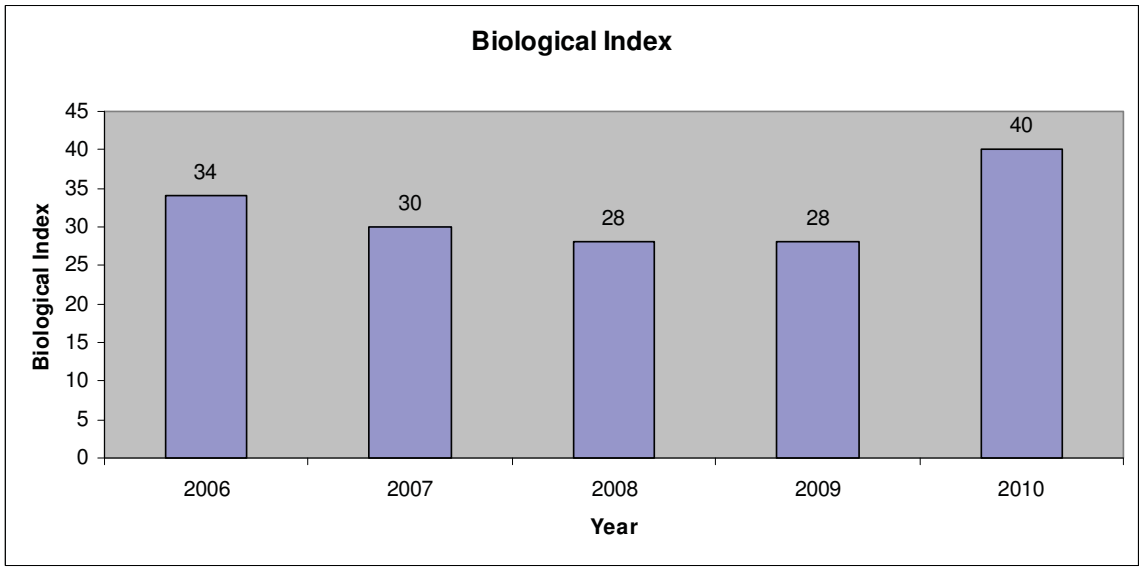
Temperature and pH measurements both fell outside of accepted water quality standards.



Biological Condition:

Classified as nonimpaired**,** the Chemung River received the highest biological condition score of all large river interstate sites.

Biological Condition		
Year	Score	Rating
2006	34	Nonimpaired
2007	30	Slightly Impaired
2008	28	Nonimpaired
2009	28	Slightly Impaired
2010	40	Nonimpaired



Cowanesque River at Lawrenceville, PA (COWN 1.0)

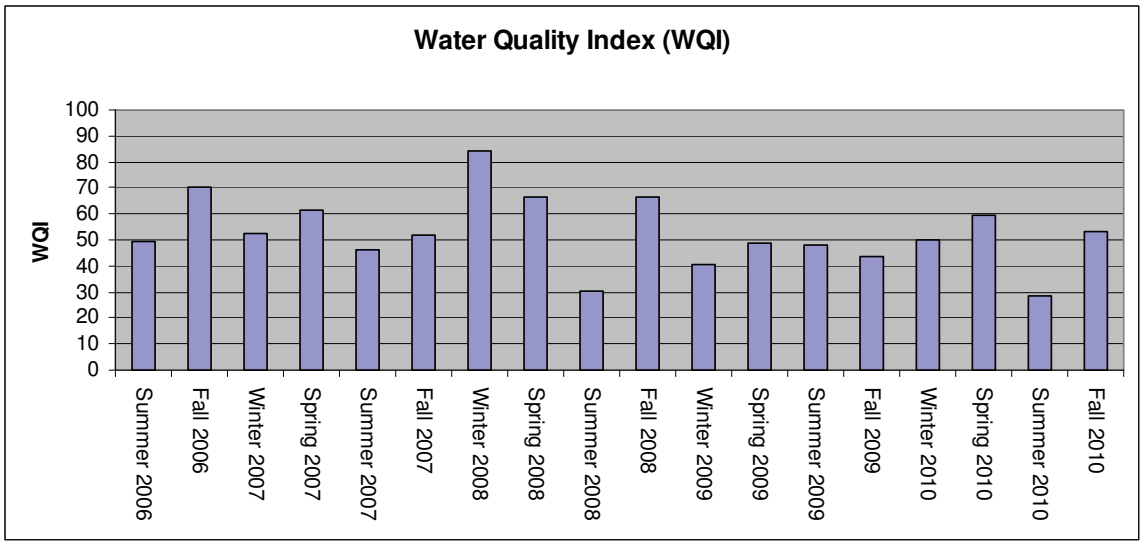
Group 1

Habitat Condition:

Physical habitat was classified as supporting in 2010. The site scored 128 out of a possible 220. The assessment scored was impacted by ongoing construction activities occurring directly upstream of the sampling site.

Water Quality:

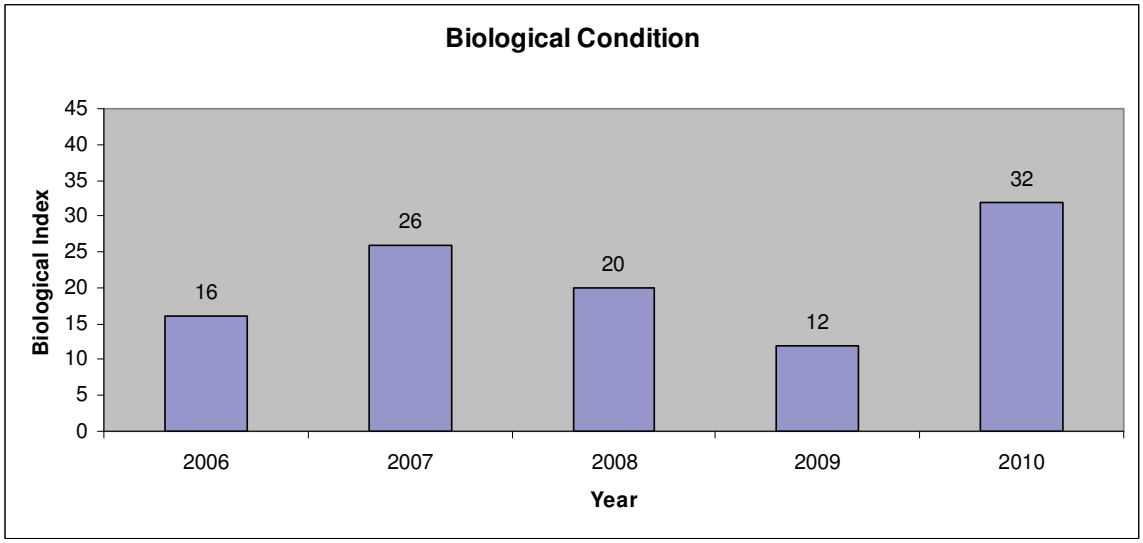
Temperature, pH, aluminum, magnesium, and iron levels were all outside of accepted water quality standards.



Biological Condition:

The biological community was classified as nonimpaired when sampled in 2010.

Biological Condition		
Year	Score	Rating
2006	16	Moderately Impaired
2007	26	Slightly Impaired
2008	20	Slightly Impaired
2009	12	Moderately Impaired
2010	32	Nonimpaired



Cowanesque River at Lawrenceville, PA (COWN2.2)

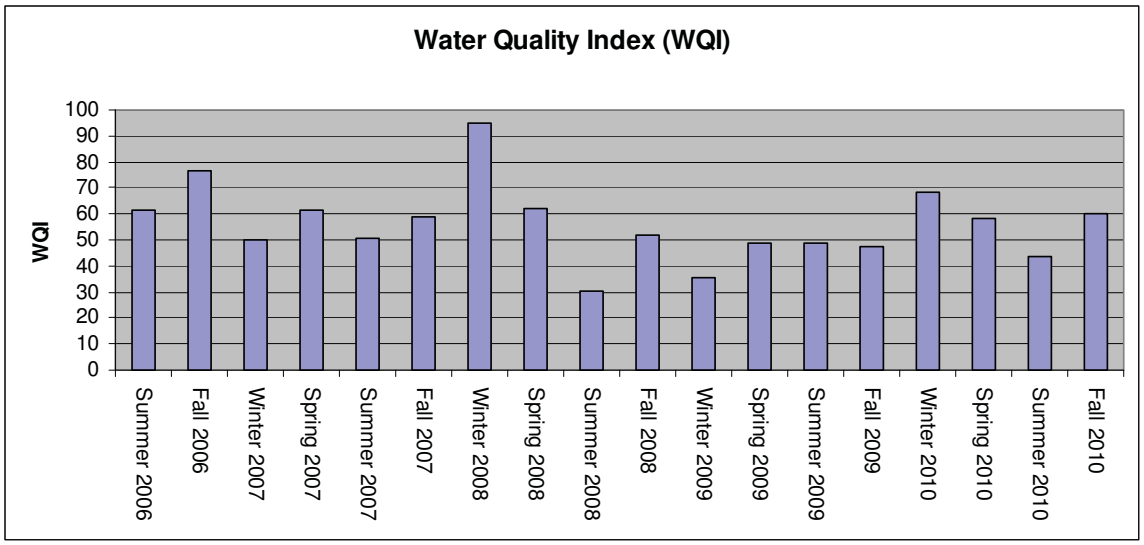
Group 1

Habitat Condition:

Located directly below a major reservoir, physical habitat was designated as partially supporting. The site scored 112 out of a possible 220. Major channel alterations and an absence of instream cover significantly affected the overall habitat score and classification.

Water Quality:

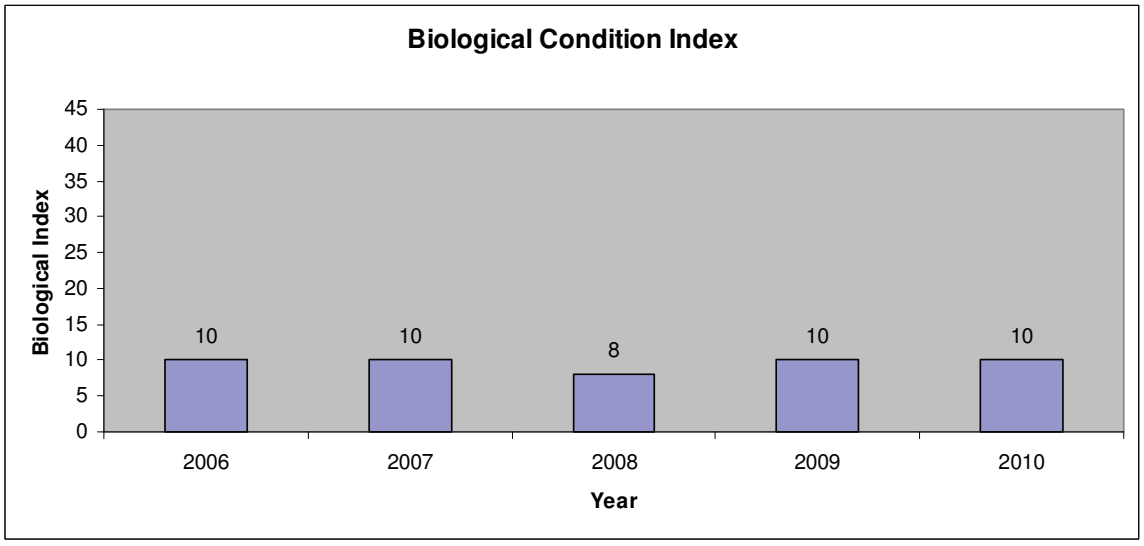
Aluminum, magnesium, and iron concentrations were all above water quality thresholds.



Biological Condition:

The biological community at COWN 2.2 was rated as moderately impaired for the fifth consecutive year. In 2010, this station received the lowest biological condition score of all large river interstate sites.

Biological Condition		
Year	Score	Rating
2006	10	Moderately Impaired
2007	10	Moderately Impaired
2008	8	Moderately Impaired
2009	10	Moderately Impaired
2010	10	Moderately Impaired



Susquehanna River at Conowingo, MD (SUSQ 10.0)

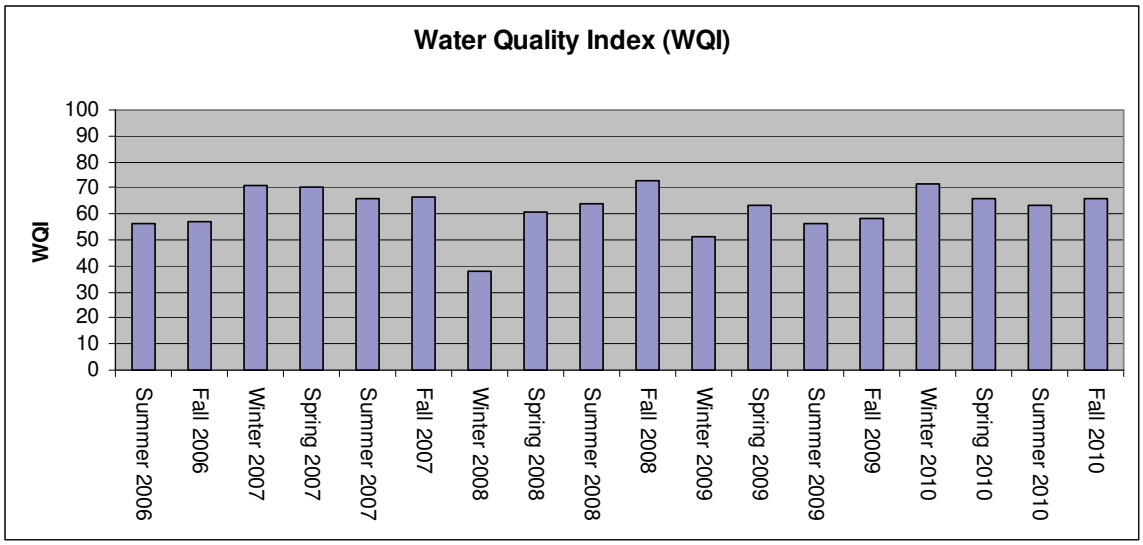
Group 1

Habitat Condition:

Due to the location of this sampling station, physical habitat is not assessed. The station is located directly downstream of the Conowingo Hydroelectric dam and is subject to frequent disturbances due to plant operations.

Water Quality:

Temperature exceeded water quality standards in 2010.



Biological Condition:

The macroinvertebrate community is not assessed at this sampling location.

SUSQ 10.0 during high flow conditions in March 2011.

Susquehanna River at Marietta, PA (SUSQ 44.5)

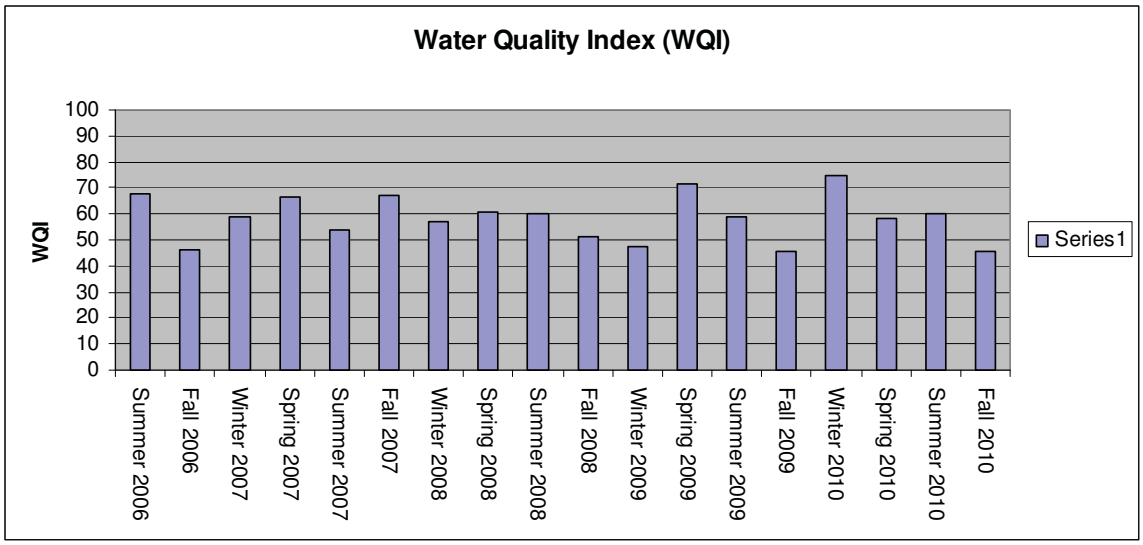
Group 1

Habitat Condition:

Scoring 161 out of a possible 220, available physical habitat was deemed excellent in 2010. Despite being bracketed by hydroelectric facilities upstream and downstream of the sampling site, habitat conditions remain good. The Susquehanna River at this location is approximately one mile wide.

Water Quality:

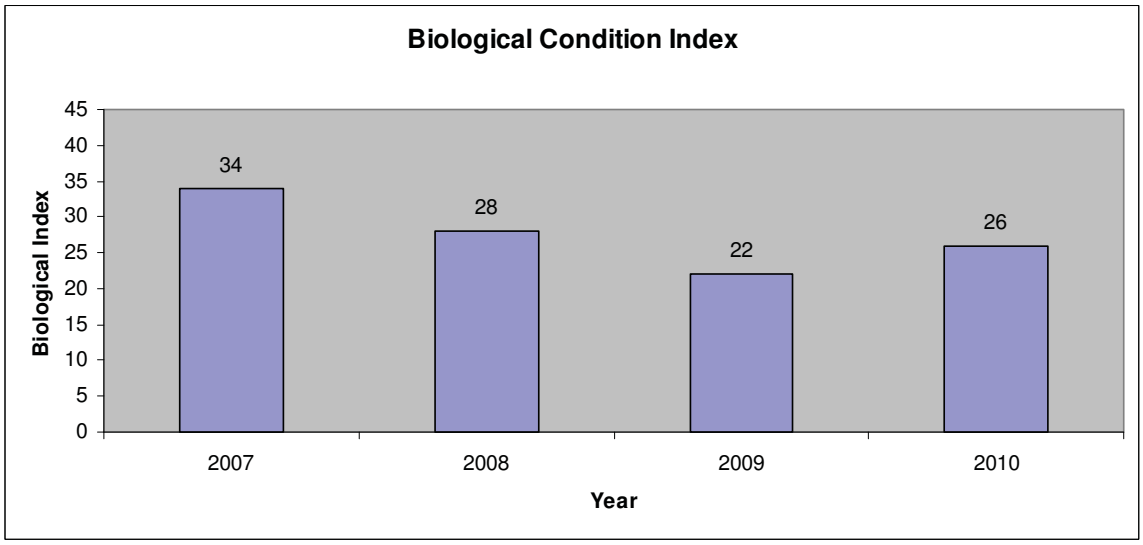
Temperature and pH were both measured outside accepted water quality standards.



Biological Condition:

The macroinvertebrate community as rated as slightly impaired when sampled in 2010.

Biological Condition		
Year	Score	Rating
2006	NA	NA
2007	34	Nonimpaired
2008	28	Nonimpaired
2009	22	Slightly Impaired
2010	26	Slightly Impaired



Susquehanna River at Sayre, PA (SUSQ 289.1)

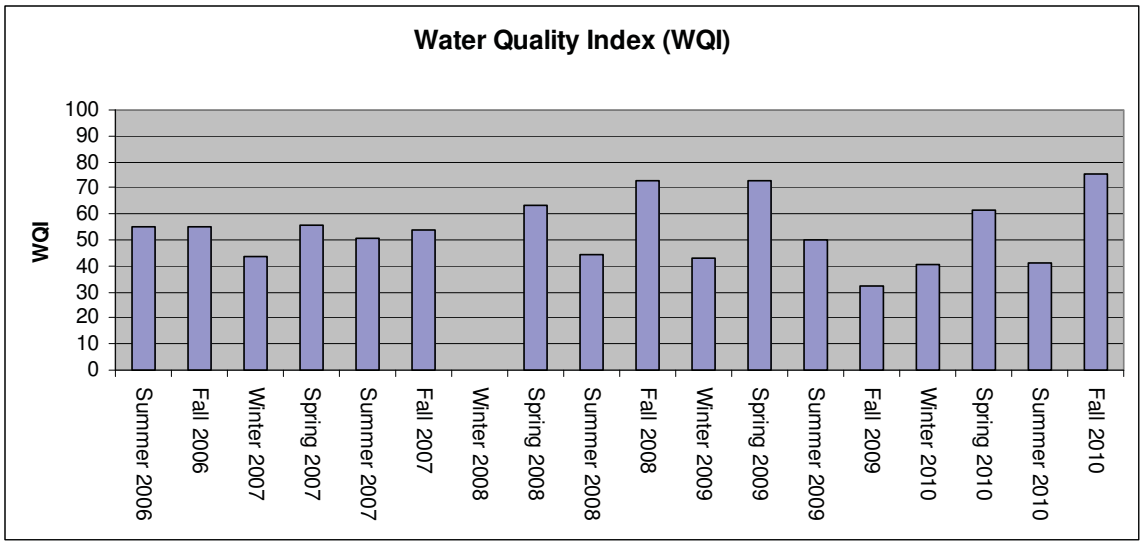
Group 1

Habitat Condition:

Available physical habitat was classified as excellent in 2010. SUSQ 289.1 scored 155 out of a possible 220 points. Staff noted good epifaunal substrate and velocity/depth regimes.

Water Quality:

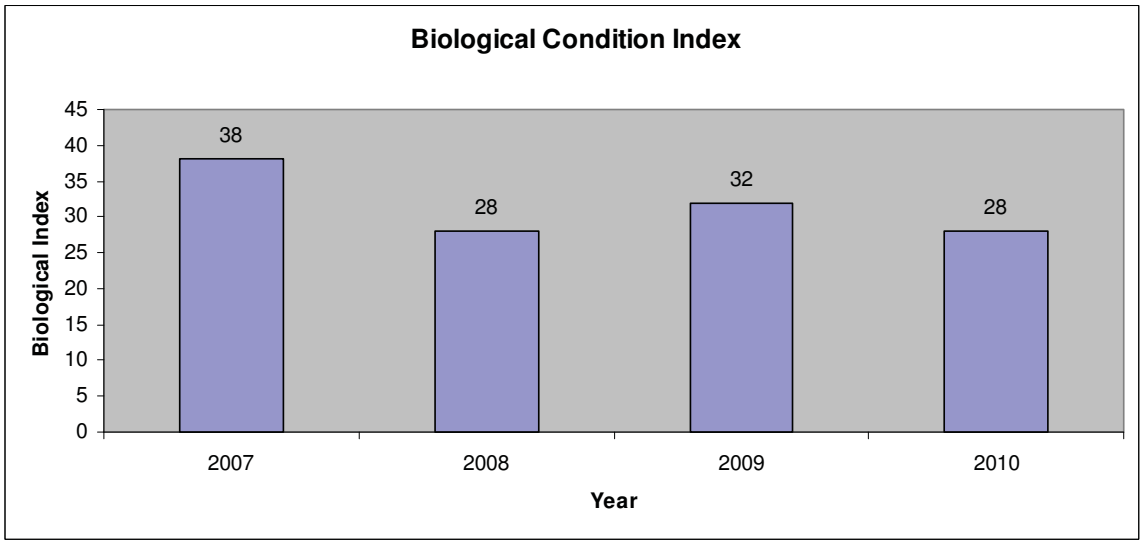
Temperature, pH, aluminum, and iron were all measured to be outside of acceptable water quality standards.



Biological Condition:

The biological condition of SUSQ 289.1 was classified as slightly impaired in 2010.

Biological Condition		
Year	Score	Rating
2006	NA	NA
2007	38	Nonimpaired
2008	28	Nonimpaired
2009	32	Nonimpaired
2010	28	Slightly Impaired



Susquehanna River at Kirkwood, NY (SUSQ 340.0)

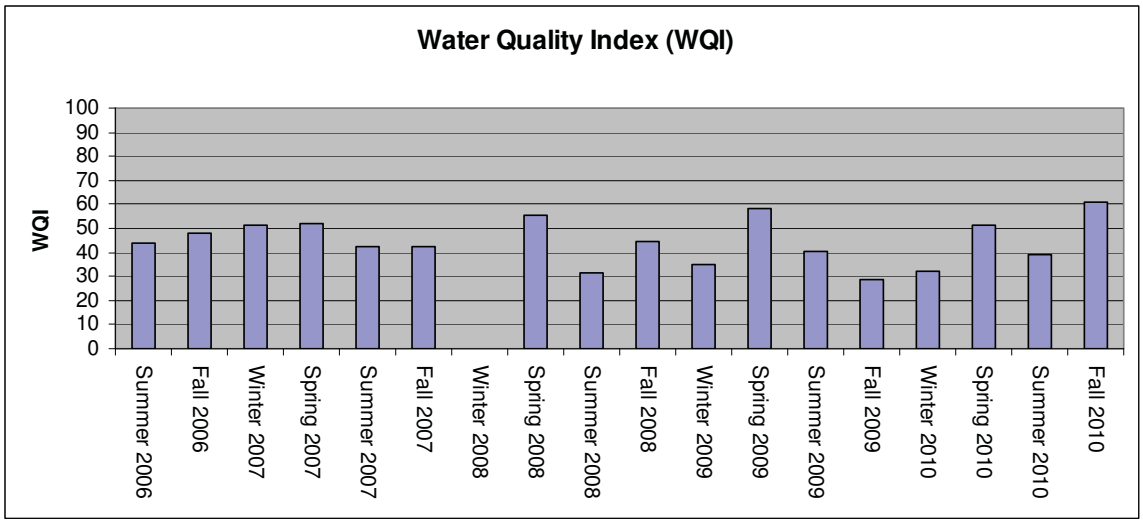
Group 1

Habitat Condition:

Scoring 153 out of a possible 220, physical habitat conditions were considered excellent in 2010.

Water Quality:

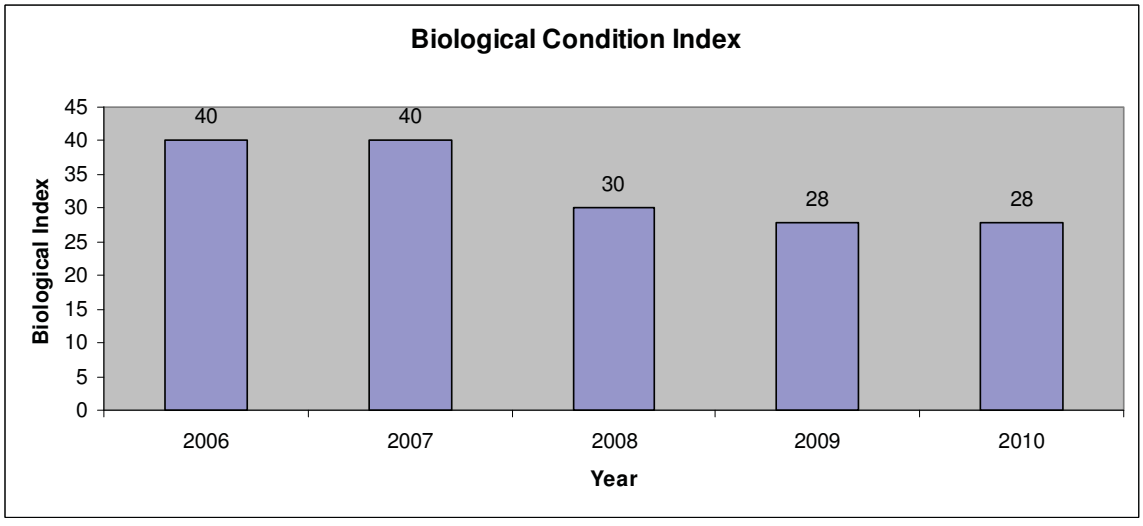
Temperature, pH, and iron levels were outside of acceptable water quality standards.



Biological Condition:

The biological community at SUSQ 340.0 was rated as slightly impaired for the second consecutive year.

Biological Condition		
Year	Score	Rating
2006	40	Nonimpaired
2007	40	Nonimpaired
2008	30	Nonimpaired
2009	28	Slightly Impaired
2010	28	Slightly Impaired



Susquehanna River at Windsor, NY (SUSQ 365.0)

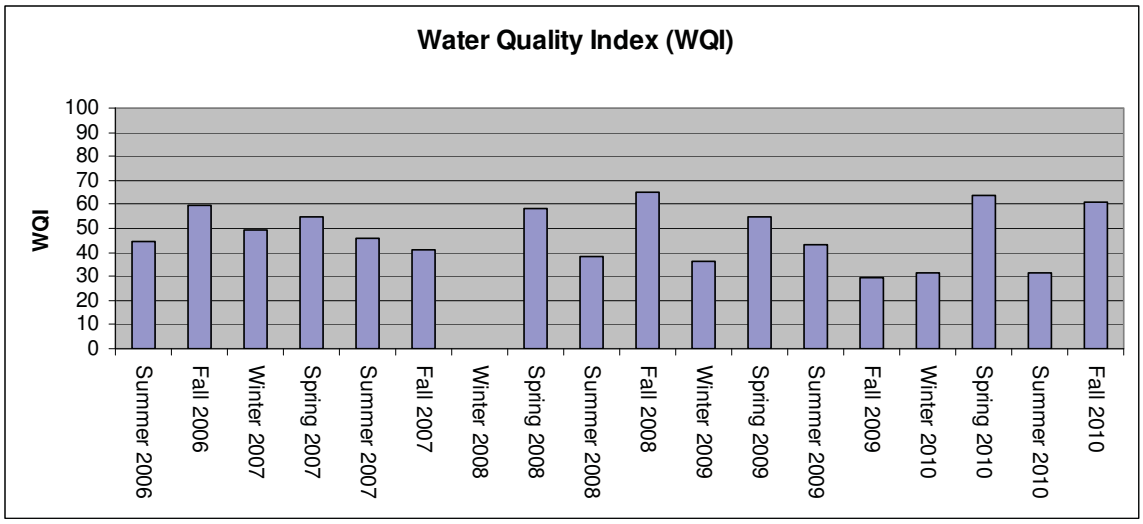
Group 1

Habitat Condition:

Available physical habitat was classified as excellent in 2010. Scoring 176 out of a possible 220, SUSQ 365.0 possessed the best habitat score of all large river sites in the 2010 interstate project.

Water Quality:

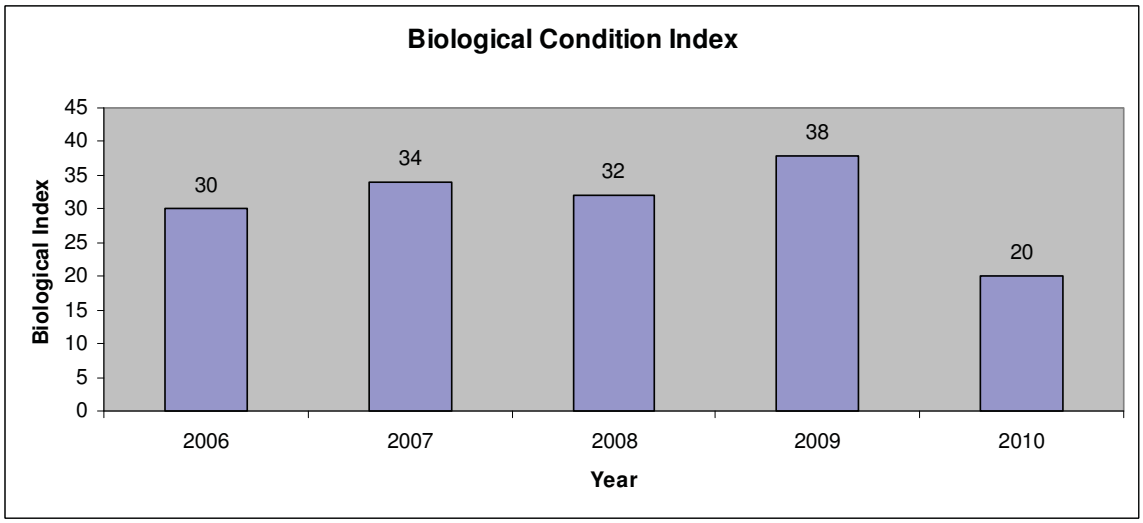
Temperature and iron levels were above established water quality standards.



Biological Condition:

SUSQ 365.0 received a biological condition classification of slightly impaired. This rating marks a decline from the four previous years when the macroinvertebrate community as designated as nonimpaired.

Biological Condition		
Year	Score	Rating
2006	30	Nonimpaired
2007	34	Nonimpaired
2008	32	Nonimpaired
2009	38	Nonimpaired
2010	20	Slightly Impaired



Tioga River at Lindley, PA (TIOG 10.8)

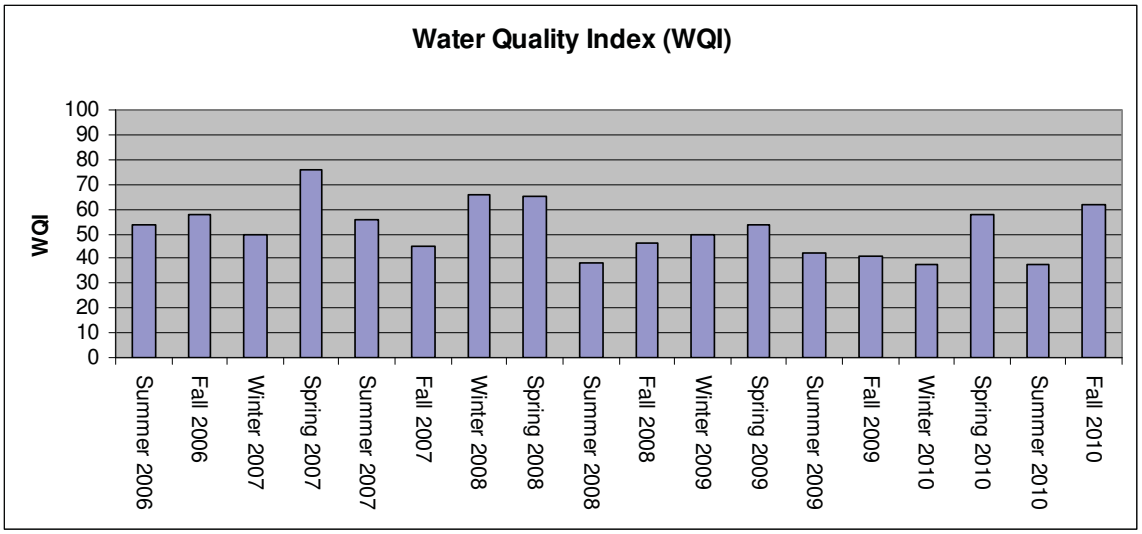
Group 1

Habitat Condition:

Scoring 162 out of a possible 220, available physical habitat was rated as excellent in 2010.

Water Quality:

Temperature was the only measured water quality parameter found to be outside of accepted limits.



Biological Condition:

The macroinvertebrate community was classified as nonimpaired when sampled in 2010.

Biological Condition		
Year	Score	Rating
2006	34	Nonimpaired
2007	28	Slightly Impaired
2008	32	Nonimpaired
2009	24	Slightly Impaired
2010	34	Nonimpaired