

## Site Results for Large River Interstate Sites

### Chemung River at Chemung, NY (CHEM 12.0)

#### Group 1

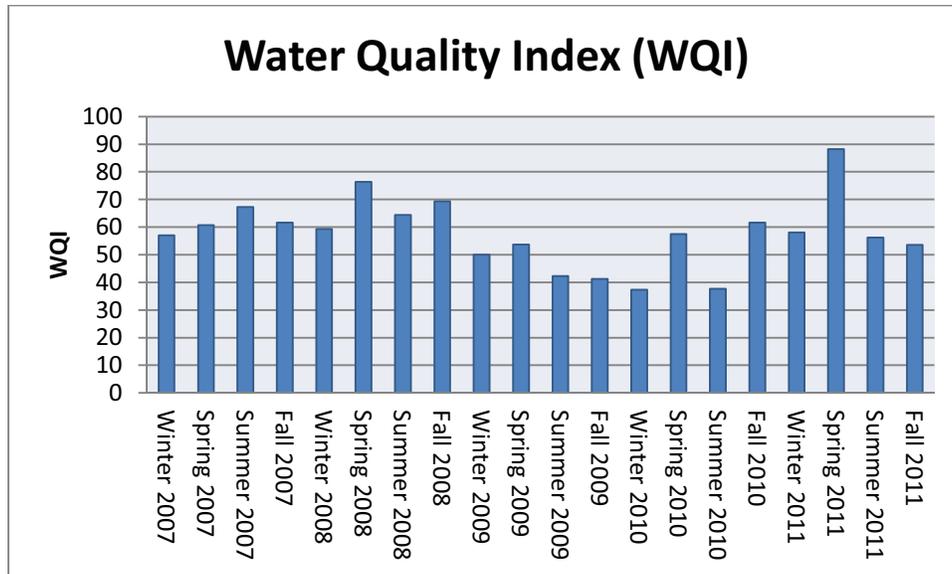


#### **Habitat Condition:**

Physical habitat was rated as excellent at CHEM 12.0. The site scored 168 out of a possible 220. Staff noted optimal channel flow status and bank conditions.

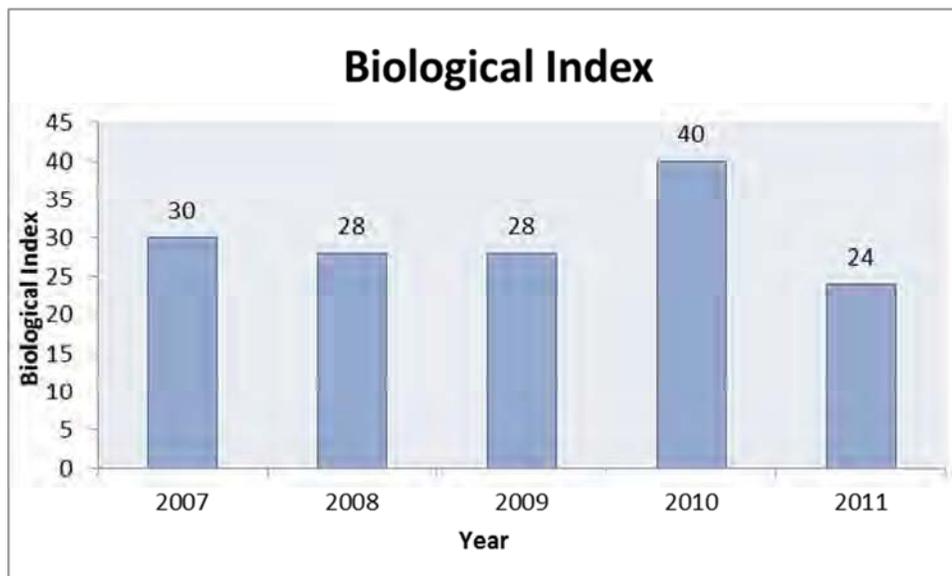
#### **Water Quality:**

pH measurements exceeding 8.5 units were recorded at this site.



**Biological Condition:** CHEM 12.0 received a biological condition designation of slightly impaired when sampled in 2011.

Biological Condition		
Year	Score	Rating
2007	30	Slightly Impaired
2008	28	Nonimpaired
2009	28	Slightly Impaired
2010	40	Nonimpaired
2011	24	Slightly Impaired



## Cowanesque River at Lawrenceville, PA (COWN 1.0)

### Group 1

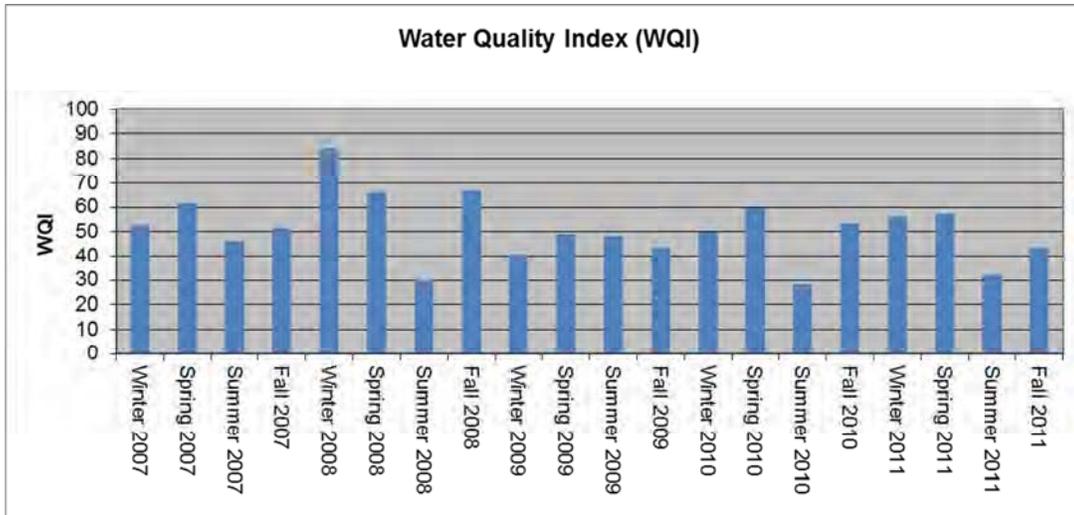


#### **Habitat Condition:**

Physical habitat was classified as supporting. The site scored 151 out of a possible 220. Bank conditions were negatively impacted from road development adjacent to the river.

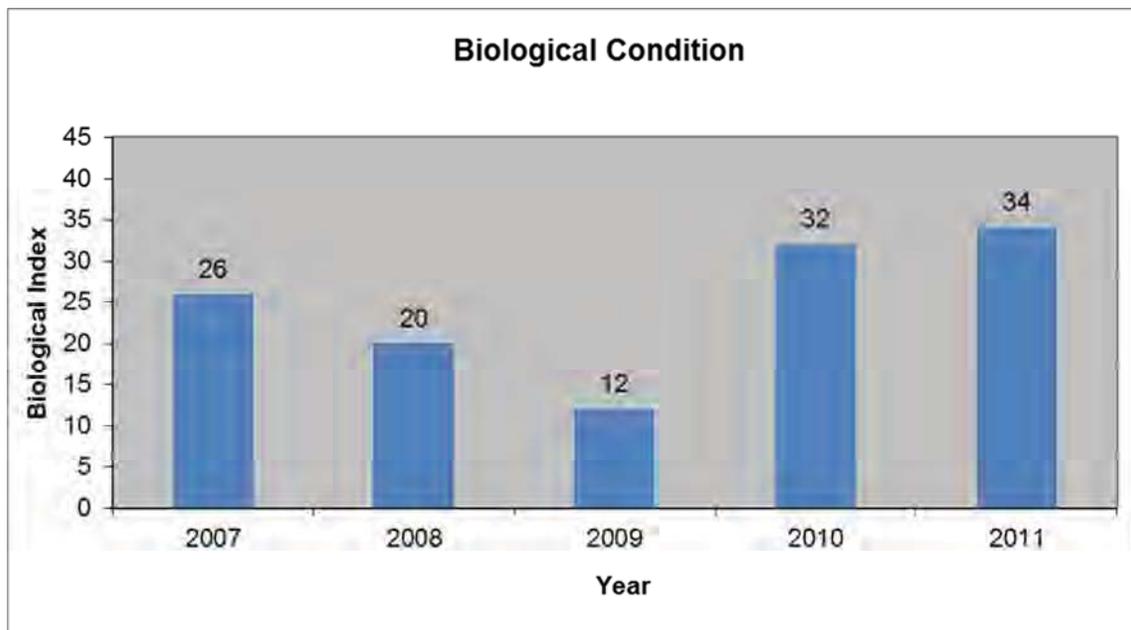
#### **Water Quality:**

All measured water quality parameters tested within acceptable limits.



**Biological Condition:** The biological community was classified as nonimpaired when sampled in 2011.

Biological Condition		
Year	Score	Rating
2007	26	Slightly Impaired
2008	20	Slightly Impaired
2009	12	Moderately Impaired
2010	32	Nonimpaired
2011	34	Nonimpaired



## Cowanesque River at Lawrenceville, PA (COWN 2.2)

### Group 1

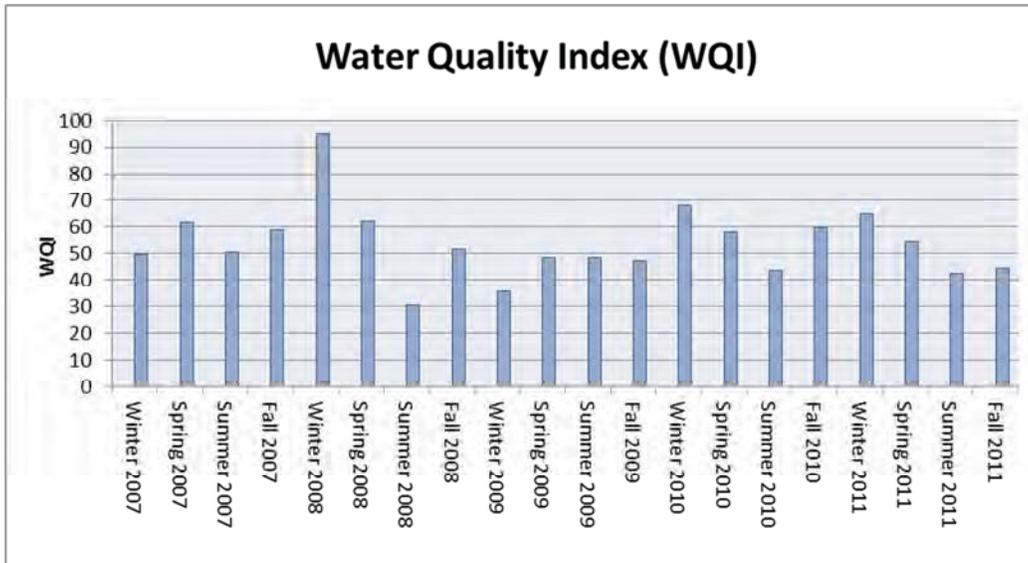


#### **Habitat Condition:**

Located directly below a large reservoir, physical habitat was designated as supporting. The site scored 151 out of a possible 220 points. A heavily altered channel and a streambed devoid of cover were factors limiting the available habitat.

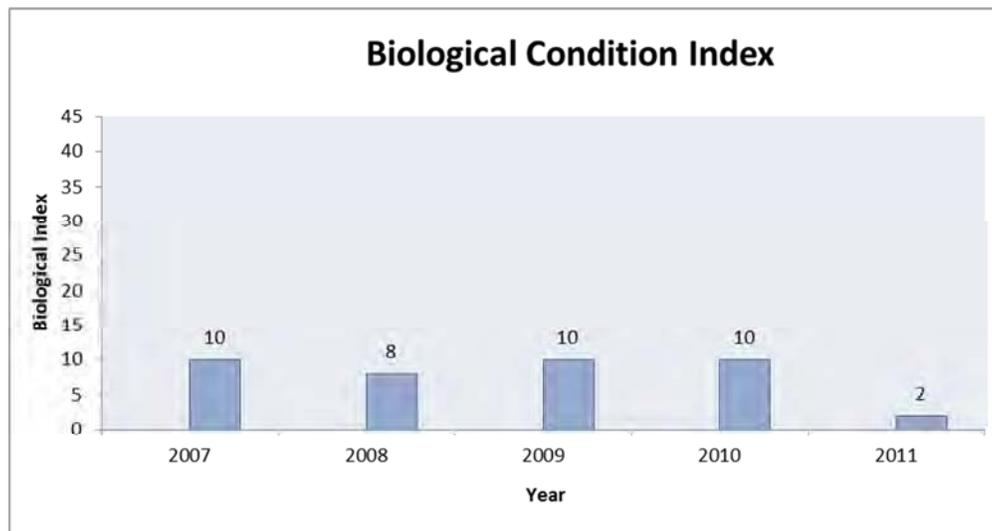
#### **Water Quality:**

Manganese concentrations were determined to be outside of accepted limits.



**Biological Condition:** The biological community at COWN 2.2 was classified as severely impaired. The station received the lowest biological condition score of all streams monitored in the project.

Biological Condition		
Year	Score	Rating
2007	10	Moderately Impaired
2008	8	Moderately Impaired
2009	10	Moderately Impaired
2010	10	Moderately Impaired
2011	2	Severely Impaired



## Susquehanna River at Conowingo, MD (SUSQ 10.0)

### Group 1

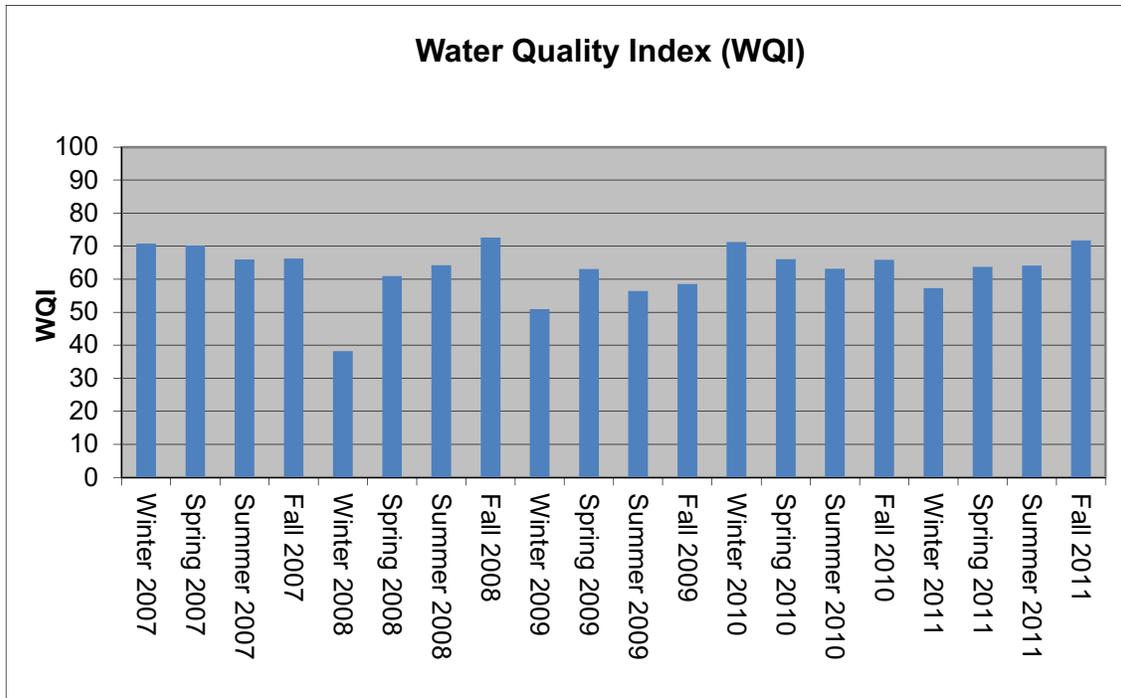


#### **Habitat Condition:**

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

#### **Water Quality:**

All measured water quality parameters tested within acceptable limits.



**Biological Condition:**

The macroinvertebrate community was not assessed at the sampling location.

## Susquehanna River at Marietta, PA (SUSQ 44.5)

### Group 1

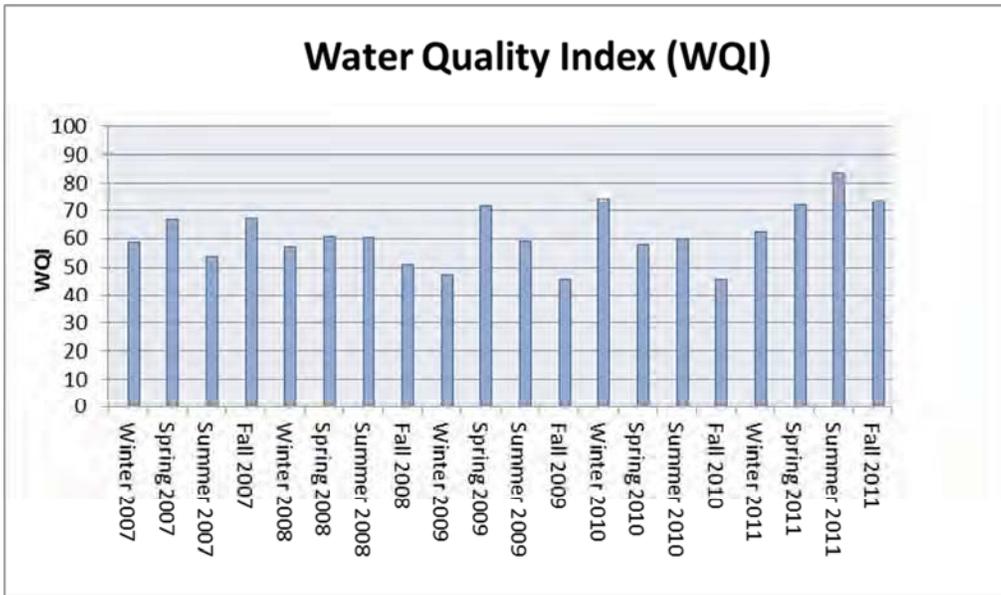


#### **Habitat Condition:**

Physical habitat was designated as excellent when assessed in 2011, scoring 154 out of a possible 220. SRBC staff noted a lack of instream cover and pool variability at the site.

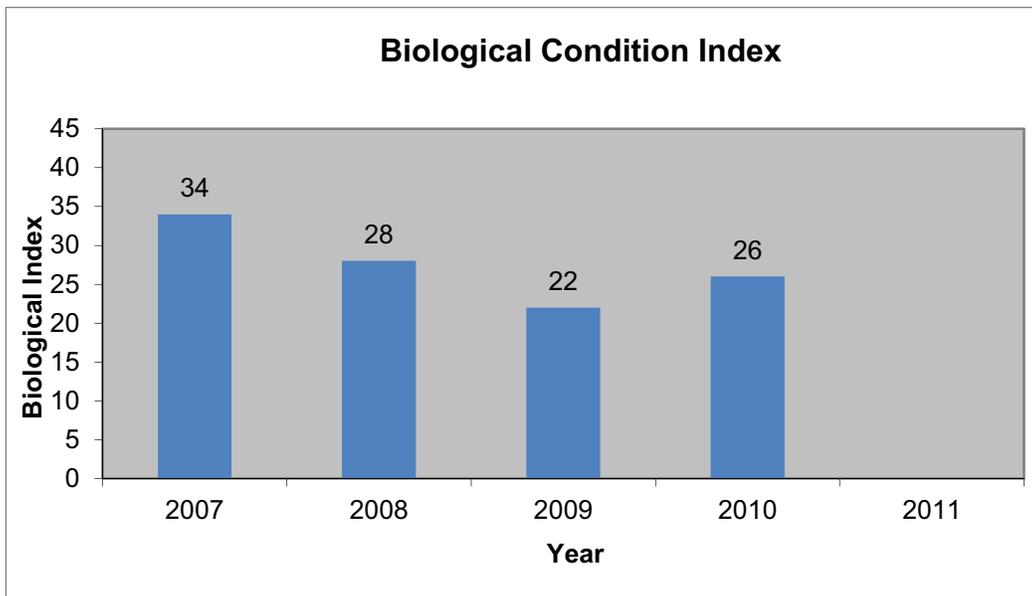
#### **Water Quality:**

All measured water quality parameters tested within acceptable limits.



**Biological Condition:** Due to high flows during the summer sampling period, the biological community at SUSQ 44.5 was not assessed in 2011.

Biological Condition		
Year	Score	Rating
2007	34	Nonimpaired
2008	28	Nonimpaired
2009	22	Slightly Impaired
2010	26	Slightly Impaired
2011	NA	NA



## Susquehanna River at Sayre, PA (SUSQ 289.1)

### Group 1

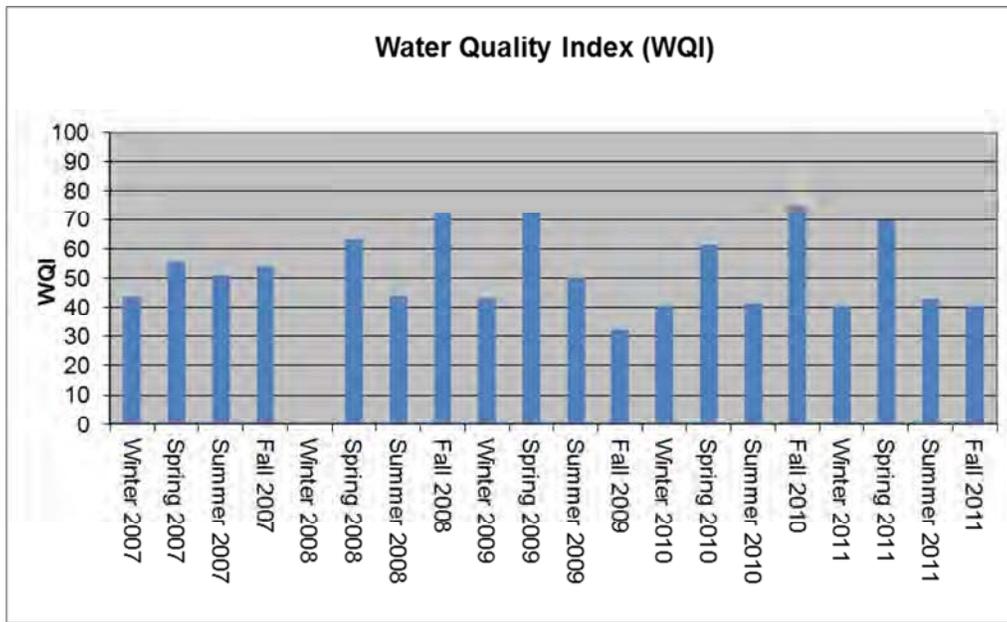


#### **Habitat Condition:**

Available physical habitat was classified as excellent in 2011. SUSQ 289.1 scored 171 out of a possible 220 points. SRBC staff noted minimal embeddedness and sediment deposition.

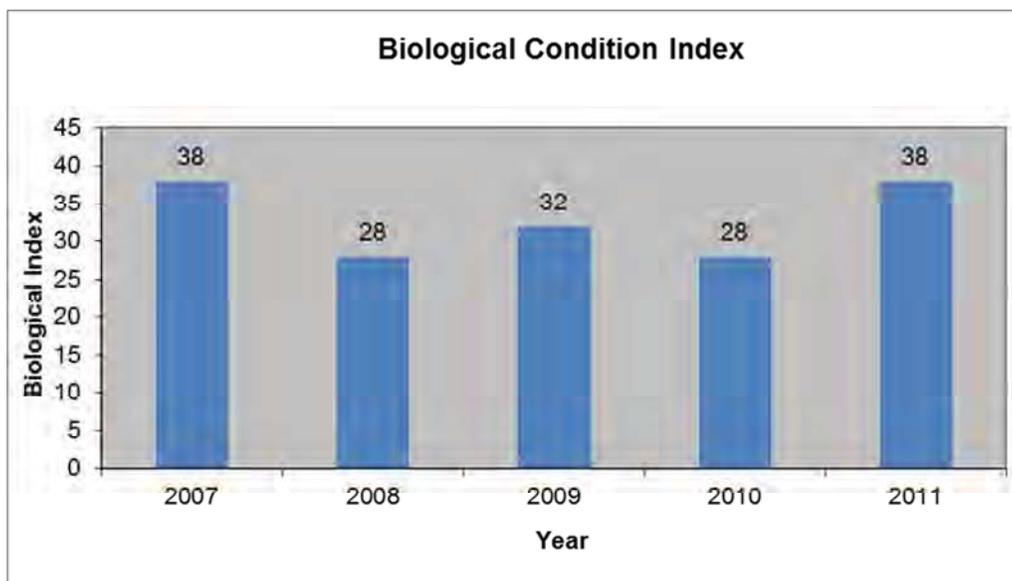
#### **Water Quality:**

A pH value of 9.01 was recorded during the summer of 2011, exceeding both the New York and Pennsylvania water quality standards criteria.



**Biological Condition:** The biological community at SUSQ 289.1 was classified as nonimpaired in 2011.

Biological Condition		
Year	Score	Rating
2007	38	Nonimpaired
2008	28	Nonimpaired
2009	32	Nonimpaired
2010	28	Slightly Impaired
2011	38	Nonimpaired



## Susquehanna River at Kirkwood, NY (SUSQ 340.0)

### Group 1

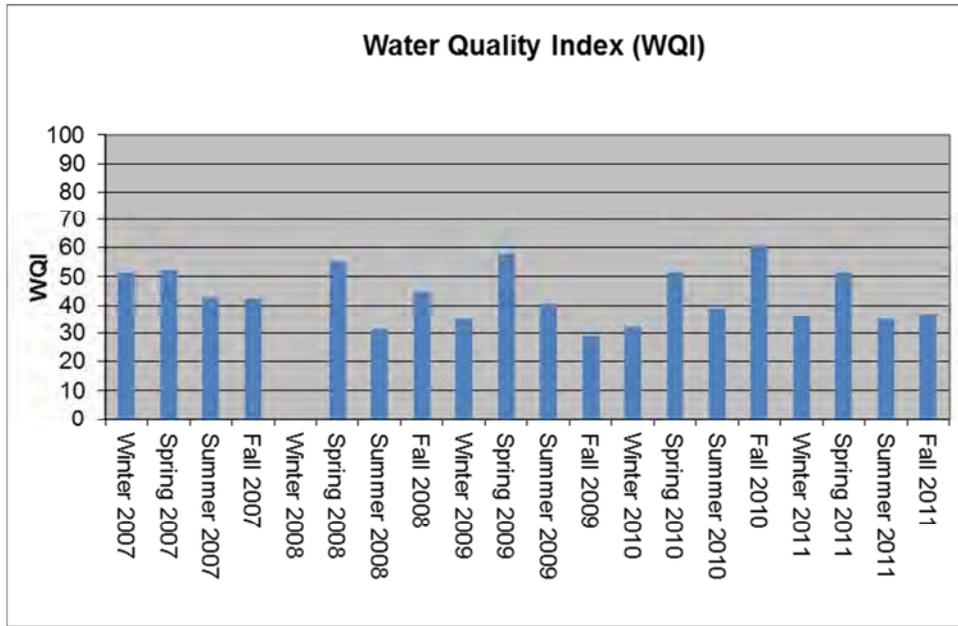


#### **Habitat Condition:**

Scoring 157 out of a possible 220, physical habitat conditions were considered excellent in 2011.

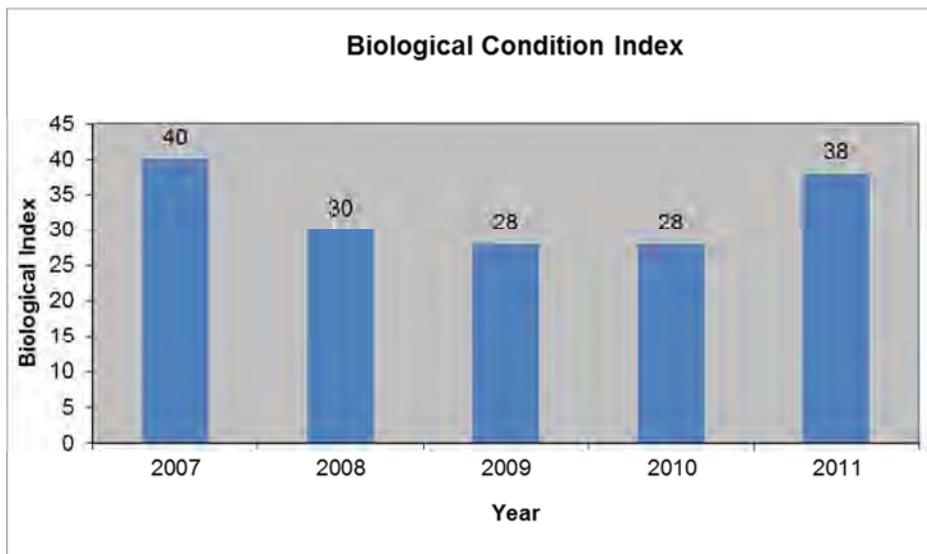
#### **Water Quality:**

All measured water quality parameters tested within accepted limits.



**Biological Condition:** The biological community at SUSQ 340.0 was rated as nonimpaired when sampled in 2011. The site served as the reference site to which all other large river sites were compared.

Biological Condition		
Year	Score	Rating
2007	40	Nonimpaired
2008	30	Nonimpaired
2009	28	Slightly Impaired
2010	28	Slightly Impaired
2011	38	Nonimpaired



## Susquehanna River at Windsor, NY (SUSQ 365.0)

### Group 1

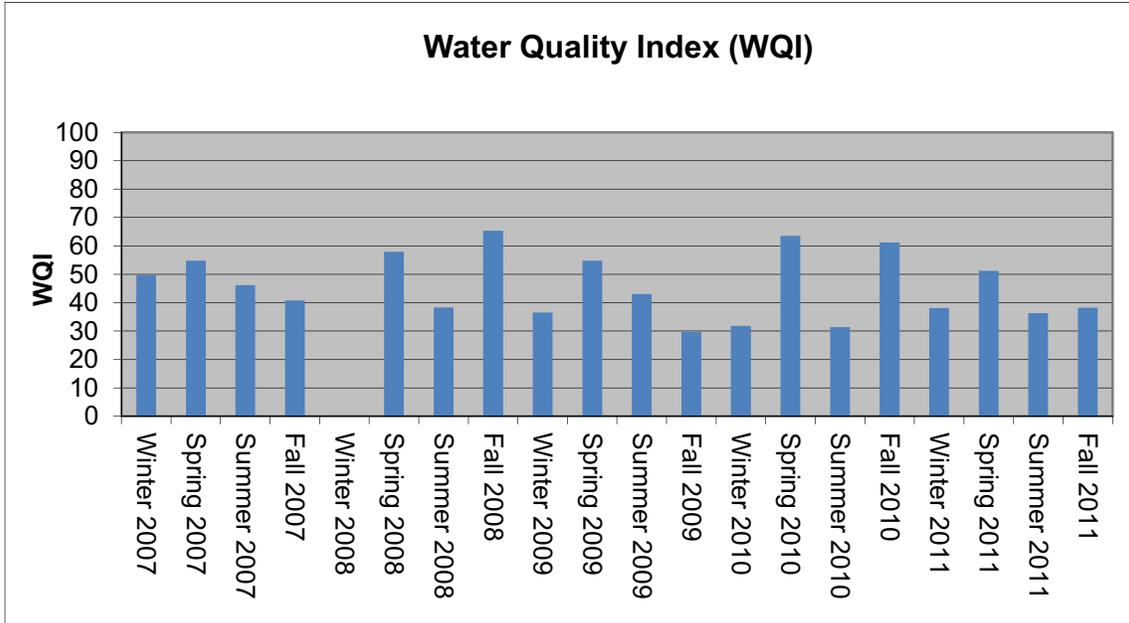


#### **Habitat Condition:**

Available physical habitat was classified as excellent in 2011. Scoring 171 out of a possible 220, SUSQ 365.0 possessed the second highest habitat score of all large river sites evaluated in 2011.

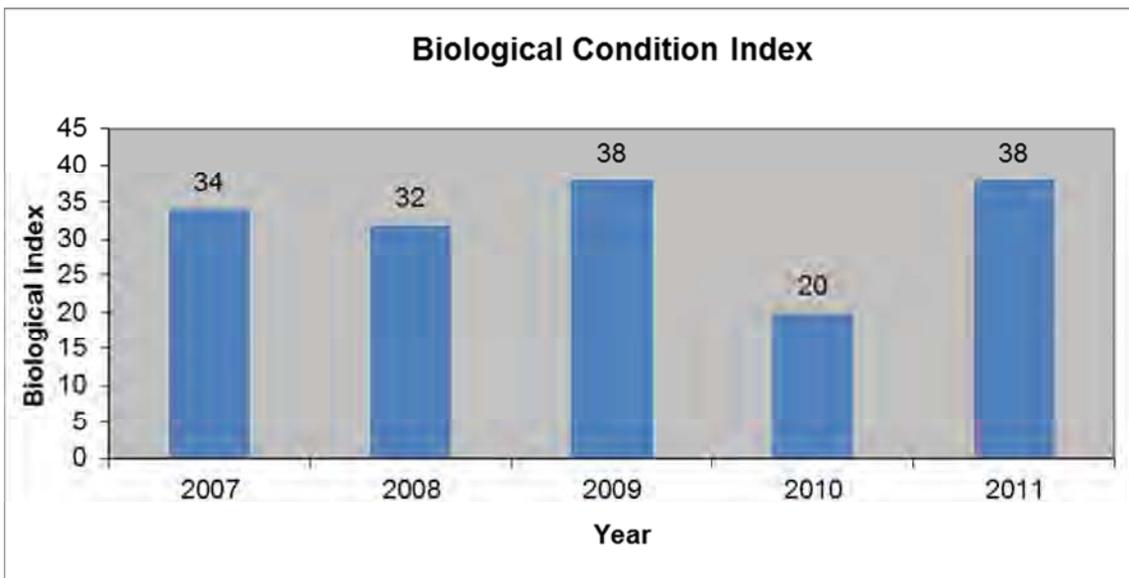
#### **Water Quality:**

A recorded pH value in excess of the New York state water quality criteria was recorded in 2011.



**Biological Condition:** The biological condition of SUSQ 365.0 was designated as nonimpaired when assessed in 2011.

Biological Condition		
Year	Score	Rating
2007	34	Nonimpaired
2008	32	Nonimpaired
2009	38	Nonimpaired
2010	20	Slightly Impaired
2011	38	Nonimpaired



## Tioga River at Lindley, PA (TIOG 10.8)

### Group 1

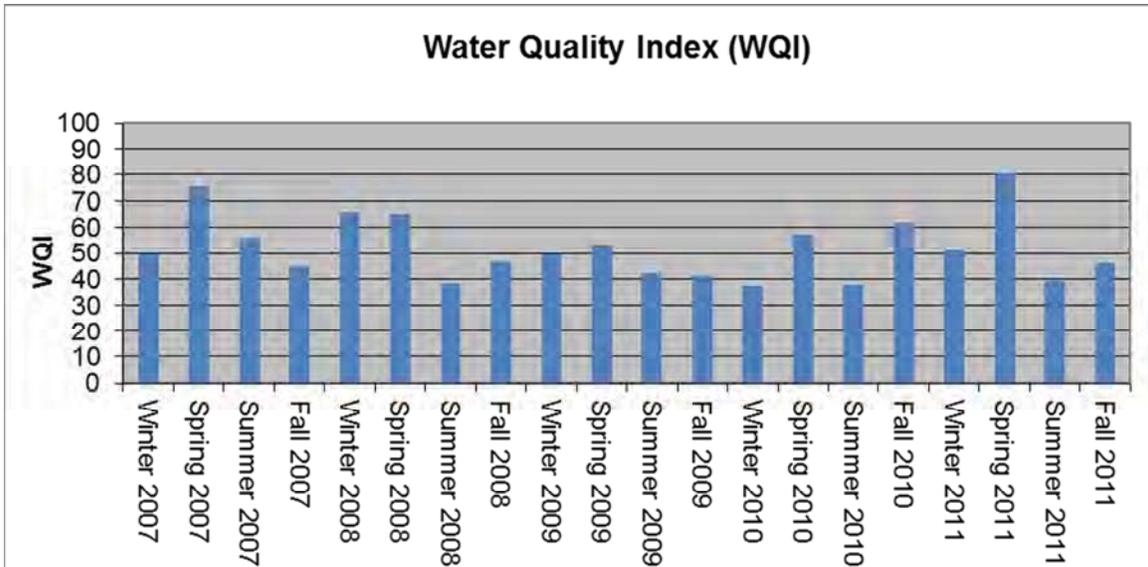


#### **Habitat Condition:**

Scoring 178 out of a possible 220, TIOG 10.8 received the highest habitat condition score of all large river sites assessed in 2011.

#### **Water Quality:**

Manganese concentrations were determined to be outside of accepted limits.



**Biological Condition:** The biological condition of TIOG 10.8 was determined to be moderately impaired, marking a significant departure from the nonimpaired status attained in 2010.

Biological Condition		
Year	Score	Rating
2007	28	Slightly Impaired
2008	32	Nonimpaired
2009	24	Slightly Impaired
2010	34	Nonimpaired
2011	12	Moderately Impaired

