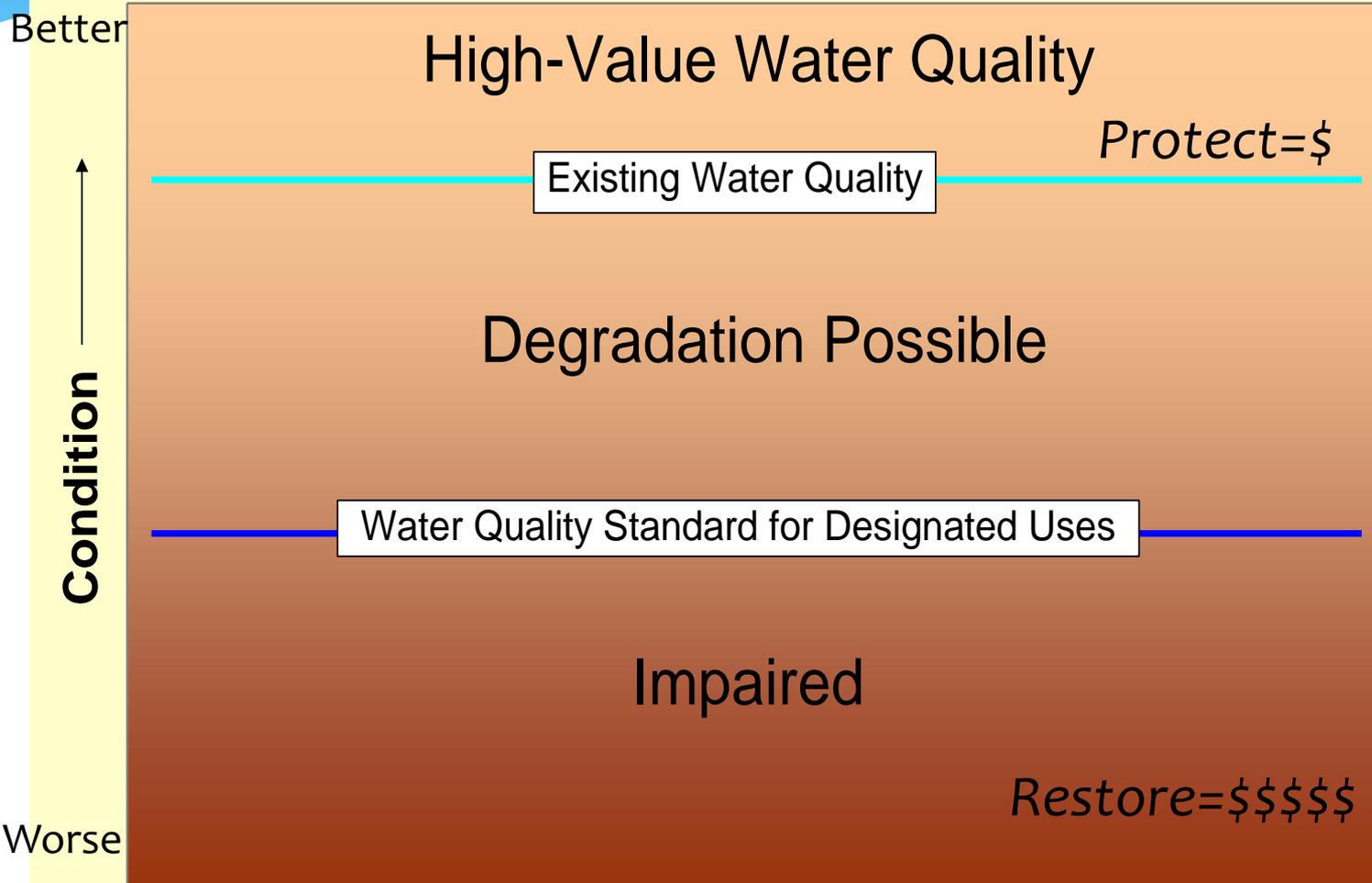


# EWQ Targets are not Criteria

## Comparison of Existing Water Quality versus Standards



# Lower Delaware Measurable Change Assessment 2009-2011

2016



## Lower Delaware River Special Protection Waters

ASSESSMENT OF MEASURABLE CHANGES TO EXISTING WATER QUALITY,  
ROUND 1: BASELINE EWQ (2000-2004) VS. POST-EWQ (2009-2011)  
DELAWARE RIVER BASIN COMMISSION, SCENIC RIVERS MONITORING PROGRAM



DRBC | West Trenton, NJ

DRBC Publication is Available

Released (pdf) July 2016

Executive Summary,

24 Chapters (one per site):

Within-site measurable changes

3 Appendices:

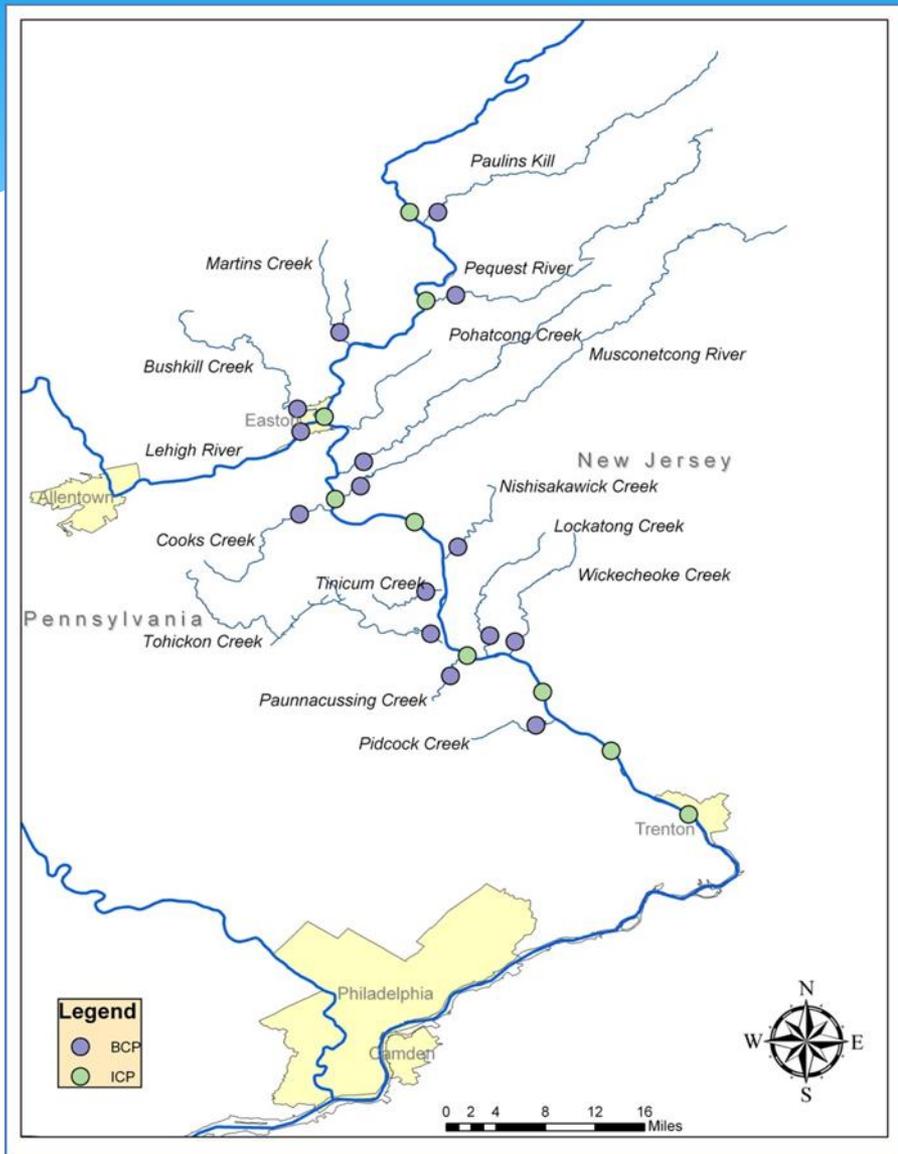
New ICP/BCP sites

Statistical Guide

Flow Estimation Methods

Presented to an advisory committee of the DRBC on April 25, 2017.  
Contents should not be published or re-posted in whole or in part  
without permission of DRBC.

# Lower Delaware Assessment 2009-2011



9 Interstate Control Points  
15 Boundary Control Points

Field Parameters, Bacteria,  
Nutrients, Conventionals

Comparison of water quality  
changes between baseline  
2000-2004 EWQ and 2009-2011  
Post-EWQ

Report Link:

[http://www.state.nj.us/drbc/programs/quality/lower-delaware\\_EWQassessment2016.html](http://www.state.nj.us/drbc/programs/quality/lower-delaware_EWQassessment2016.html)

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# Lower Delaware Measurable Changes: 440 Within-Site Comparisons at a Glance

Site Color Key		Dark Blue = Interstate Control Point (ICP)										Dark Red = Pennsylvania Tributary Boundary Control Point (BCP)					Dark Green = New Jersey Tributary Boundary Control Point (BCP)								
Parameter	Site--> Site Number-->	Del. River at Trenton	Del. River at Washngth Crossing	Pidcock Creek, PA	Delaware River at LambtrVie	Wicke-cheoke Creek, NJ	Lockatong Creek, NJ	Delaware River at Bulls Island	Pauna-cussing Creek, PA	Tohickon Creek, PA	Tinicum Creek, PA	Nishi-sakawick Creek, NJ	Del. River at Milford	Cooks Creek, PA	Musco-netcong River, NJ	Del. River at Rieglsvll	Pohat-cong Creek, NJ	Lehigh River, PA	Del. River at Easton	Bushkill Creek, PA	Martins Creek, PA	Pequest River, NJ	Del. River at Belvidere	Paulins Kill River, NJ	Del. River at Portland
		1343 ICP	1418 ICP	1463 BCP	1487 ICP	1525 BCP	1540 BCP	1554 ICP	1556 BCP	1570 BCP	1616 BCP	1641 BCP	1677 ICP	1737 BCP	1748 BCP	1748 ICP	1774 BCP	1837 BCP	1838 ICP	1841 BCP	1907 BCP	1978 BCP	1978 ICP	2070 BCP	2074 ICP
<b>Field</b>	Dissolved Oxygen (DO) mg/l											~													
	Dissolved Oxygen Saturation %											~													
	pH, units																								
	Water Temperature, degrees C																								
<b>Nutrients</b>	Ammonia Nitrogen as N, Total mg/l																								
	Nitrate + Nitrite as N, Total mg/l																	**							
	Nitrogen as N, Total (TN) mg/l																	**							
	Nitrogen, Kjeldahl, Total (TKN) mg/l																								
	Orthophosphate as P, Total mg/l																								
	Phosphorus as P, Total (TP) mg/l																								
<b>Bacteria</b>	Enterococcus colonies/100 ml	~			~																				
	Escherichia coli colonies/100 ml	**	**	**	**	**	**			**	**	**													
	Fecal coliform colonies/100 ml																								
<b>Conventional</b>	Alkalinity as CaCO3, Total mg/l																								
	Hardness as CaCO3, Total mg/l											~													
	Chloride, Total mg/l			**		**	**	**	**	**		**	**	**	**	**	**	**	**	~	**	**	**	**	**
	Specific Conductance µmho/cm			**		**	**	~	**	**	**	**	**	**	**	~	**	**	~	~	~	**	~		
	Total Dissolved Solids (TDS) mg/l																								
	Total Suspended Solids (TSS) mg/l																								
Turbidity NTU																									
<b>KEY</b>		= No indication of measurable change to EWQ							** = Indication of measurable water quality change toward more degraded status					~ = Weak indication of measurable water quality change toward more degraded status											

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# Existing Water Quality Atlas of the Delaware River Special Protection Waters

## Delaware River Basin Commission

### Existing Water Quality Atlas of the Delaware River Special Protection Waters



DRBC Special Protection Waters Program

September 2016 – Edition 1.0



Maps, Watershed Population, Land Use & Flow Statistics, and Site-Specific Existing Water Quality Tables from West Branch Delaware River to Trenton

#### Report Link

[http://www.state.nj.us/drbc/programs/quality/spw\\_ewq-atlas.html](http://www.state.nj.us/drbc/programs/quality/spw_ewq-atlas.html)

85 River Reaches & Watersheds → 88 by 2018

Upper Delaware: 11 ICP's, 19 BCP tribs.

Middle Delaware: 7 ICP's, 20 BCP tribs.

Lower Delaware: 10 ICP's, 18 BCP tribs.

(28 DR sites & 57 tributary watersheds)

Best existing scientific knowledge of water quality, flow and characteristics of the Delaware River and its tributaries.

Planned updates and additions include discharge inventory, new sites/parameters, data links, updated population and land use, study results.