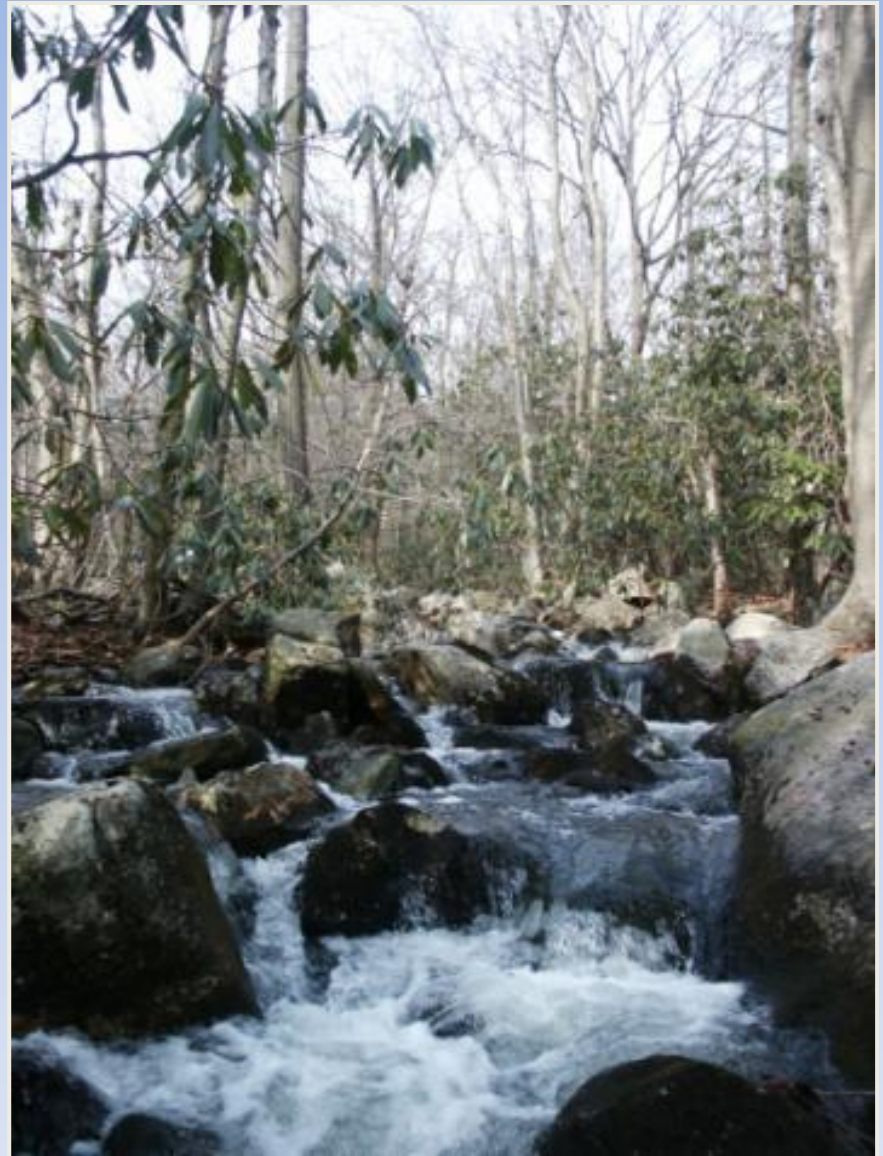


Pennsylvania's Chesapeake Bay Non-Tidal Network Water Quality Stations

2011 Monitoring Update

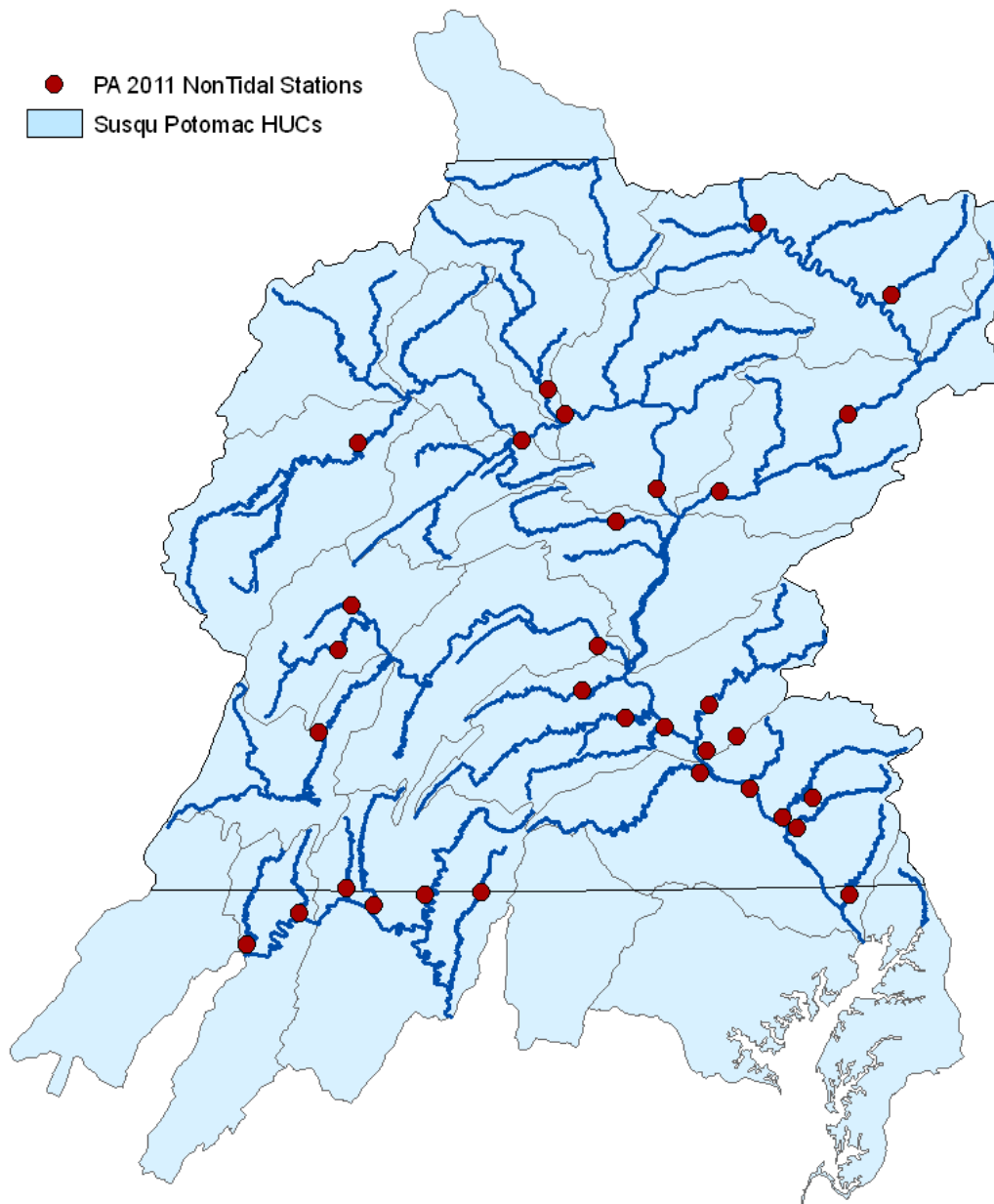


*Pennsylvania's monitoring is a collaboration
between PA DEP, SRBC, and USGS.*

PA 2011 Monitoring Stations

32 primary
stations

STATION #	USGS GAGE	STREAM NAME	STATION TYPE	Collector	PERIOD OF RECORD
201	01576000	SUSQUEHANNA RVR	Primary	SRBC	7/62
204	01576787	PEQUEA CRK	Primary	SRBC	12/66
210	01574000	WEST CONEWAGO CRK	Primary	SRBC	6/62
212	01571500	YELLOW BREECHES	Primary	USGS	6/62
214	01567000	JUNIATA RVR	Primary	SRBC	6/62
217	01558000	LITTLE JUNIATA RVR	Primary	USGS	3/50
223	01562000	RAYSTOWN BR JUNIATA	Primary	SRBC	3/50
224	01556000	FRANKSTOWN BR JUNIATA	Primary	USGS	6/62
229	01555000	PENNS CRK	Primary	SRBC	7/62
243	01568000	SHERMAN CRK	Primary	SRBC	10/04
263	01578475	OCTORARO CRK	Primary	SRBC	11/05
269	01573710	CONEWAGO CRK	Primary	USGS	5/11
271	01570000	CONODOGUINET CRK	Primary	SRBC	10/04
272	01573560	SWATARA CRK	Primary	SRBC	10/04
273	01576754	CONESTOGA RVR	Primary	SRBC	10/04
278	01573695	CONEWAGO CRK	Primary	USGS	10/11
280	015765195	BIG SPRING RUN	Primary	USGS	10/11
301	01540500	SUSQUEHANNA RVR	Primary	SRBC	7/62
302	01536500	SUSQUEHANNA RVR	Primary	SRBC	5/62
305	01531500	SUSQUEHANNA RVR	Primary	SRBC	5/62
317	01534000	TUNKHANNOCK CRK	Primary	USGS	5/62
401	01553500	W BR SUSQUEHANNA RVR	Primary	SRBC	7/62
404	01542500	W BR SUSQUEHANNA RVR	Primary	SRBC	1/50-11/87 & 10/04
410	01549700	PINE CRK	Primary	USGS	5/62
445	01548005	BALD EAGLE CRK	Primary	SRBC	1/88
448	01549760	W BR SUSQUEHANNA RVR	Primary	SRBC	10/04
501	01614500	CONOCOCHIEAGUE CRK	Primary	DEP SCRO	6/62
509	01613525	LICKING CRK	Primary	DEP SCRO	2/05
510	01613095	TONOLOWAY CRK	Primary	DEP SCRO	2/05
511	01619000	ANTIETAM CRK	Primary	DEP SCRO	2/05
512	01610155	SIDELING HILL CRK	Primary	DEP SCRO	2/05
513	01609000	TOWN CRK	Primary	DEP SCRO	9/06



2011 Sampling Summary

STATION #	USGS GAGE	STREAM NAME	2011 Routine Sample Goal	# Routine Samples Collected	2011 Storm Sample Goal	# Storm Samples Collected	Total # of Samples Collected
201	01576000	SUSQUEHANNA RVR	12	12	8	9	21
204	01576787	PEQUEA CRK	12	12	8	5	17
210	01574000	WEST CONEWAGO CRK	12	12	8	9	21
212	01571500	YELLOW BREECHES	12	12	8	7	20
214	01567000	JUNIATA RVR	12	12	8	7	19
217	01558000	LITTLE JUNIATA RVR	12	12	8	5	17
223	01562000	RAYSTOWN BR JUNIATA	12	12	8	9	21
224	01556000	FRANKSTOWN BR JUNIATA	12	12	8	5	19
229	01555000	PENNS CRK	12	12	8	7	20
243	01568000	SHERMAN CRK	12	12	8	8	20
263	01578475	OCTORARO CRK	12	12	8	6	18
269	01573710	CONEWAGO CRK	8	8	6	3	11
271	01570000	CONODOGUINET CRK	12	12	8	8	20
272	01573560	SWATARA CRK	12	12	8	9	21
273	01576754	CONESTOGA RVR	12	12	8	7	19
278	01573695	CONEWAGO CRK	3	3	2	2	5
280	015765195	BIG SPRING RUN	3	3	2	2	5
301	01540500	SUSQUEHANNA RVR	12	11	8	5	16
302	01536500	SUSQUEHANNA RVR	12	11	8	7	18
305	01531500	SUSQUEHANNA RVR	12	12	8	6	18
317	01534000	TUNKHANNOCK CRK	12	12	8	6	17
401	01553500	W BR SUSQUEHANNA RVR	12	12	8	7	20
404	01542500	W BR SUSQUEHANNA RVR	12	12	8	7	19
410	01549700	PINE CRK	12	11	8	7	17
445	01548005	BALD EAGLE CRK	12	12	8	7	19
448	01549760	W BR SUSQUEHANNA RVR	12	12	8	7	19
501	01614500	CONOCOCHIEAGUE CRK	12	9	8	7	18
509	01613525	LICKING CRK	12	9	8	9	20
510	01613095	TONOLOWAY CRK	12	10	8	6	18
511	01619000	ANTIETAM CRK	12	9	8	7	20
512	01610155	SIDELING HILL CRK	12	10	8	5	18
513	01609000	TOWN CRK	12	10	8	5	16

Parameters Analyzed at Non-Tidal Stations

- | | |
|--|--|
| <ul style="list-style-type: none">• Nitrogen, Total and Dissolved• Ammonia, Total and Dissolved• Nitrate + Nitrite, Total and Dissolved• Phosphorus, Total and Dissolved• Orthophosphorus, Total and Dissolved• Total Suspended Solids• Suspended Sediment (SS, Sand, Fine)• Total Dissolved Solids• Total Organic Carbon• Iron, Total• Sulfate• Chloride | <ul style="list-style-type: none">• Nickel, Total• Calcium, Total• Copper, Total• Aluminum, Total• Manganese• Lead, Total• Zinc, Total• Magnesium, Total• pH• Alkalinity• Specific Conductivity• Hardness |
|--|--|

* pH, water temperature, dissolved oxygen, and conductivity are taken in the field

Additional Parameters

- 13 stations in the Marcellus Shale region of PA
 - Sodium, Total
 - Strontium, Total
 - Osmotic Pressure
 - Bromide
 - Boron, Total
 - Selenium, Total
 - Barium, Total
- 9 stations also gather data for the Copper Biotic Ligand Model
 - Potassium
 - Dissolved Organic Carbon
 - Sodium, Total

Funding Sources

- All work for the Non-Tidal Network is now funded through the Chesapeake Bay Grant



2011 Challenges

- Weather
 - Tropical storm Lee
 - ice
 - high flows/safety
- Unexpected Leave
 - missed samples
- Staff Turn Over
 - training
 - travel

