

**TABLE – Triennial Review; RAF Question # 12**  
**Summary: Criteria Update for U.S. EPA Region 3 and Neighboring States**

	CHLORIDE	AMMONIA	U.S. EPA's 2015 Human Health Criteria Updates
<b>Pennsylvania</b>			
<i>Human Health</i>	250 mg/L <sup>5</sup> ( <i>Water Supply</i> )		Proposing EPA's 2015 HH Criteria Updates for 94 pollutants; adding new risk input factors into codified methods for criteria development; and recalculated several state-derived criteria using new risk input factors during current TR
<i>Freshwater Aquatic Life - Current Criteria</i>	Currently no state-wide aquatic life criteria for protection from chloride.	Current criteria based on EPA 1983 draft report	
<i>Freshwater Aquatic Life – Proposed Criteria</i>	Proposing PA specific equation-based standard during current TR	Proposing EPA 2013 (mussels & trout present statewide) during current TR	
<b>Delaware</b>			
<i>Freshwater Aquatic Life</i>	Not considered an issue in DE, no Chloride criteria for freshwater	No immediate plans to adopt EPA 2013; but will consider during next TR	
<i>Freshwater Human Health</i>			No immediate plans to adopt EPA 2015; will evaluate approach & risk factors during next TR
<b>Maryland</b>			
<i>Freshwater Aquatic Life</i>	Developed draft chloride criteria, but not moving to adopt criteria in MD WQS (using draft criteria as end-point for TMDL's). Currently, No chloride criteria	Will consider EPA 2013 in next TR or in the interim	
<i>Human Health</i>			Not planning to adopt at this time. May adopt in a subsequent rulemaking.
<b>New Jersey</b>			
<i>Freshwater Aquatic Life</i>	230 mg/L & 860 mg/L <sup>4</sup>	plans to adopt EPA 2013 during next TR	
<i>Freshwater Human Health</i>	250 mg/L (ol) <sup>1,5</sup>		No current plans to adopt EPA 2015; currently performing preliminary review of HH updates
<b>New York</b>			
<i>Human Health</i>	250 mg/L <sup>5</sup> ( <i>Water Supply</i> )		Currently reviewing EPA's 2015 Updates; comparing NY's procedural approach to EPA's updates (risk factors and methods)
<i>Freshwater Aquatic Life</i>	Considering adoption as part of next TR	Considering adoption as part of next TR	

	CHLORIDE	AMMONIA	U.S. EPA's 2015 Human Health Criteria Updates
<b>Ohio</b>			
<i>Human Health</i>	250 mg/L <sup>5</sup> <i>Water Supply</i> <sup>3</sup> (OMZA) <sup>2</sup>		Proposing to include EPA's 2015 HH Criteria Updates for 94 pollutants along with this next triennial.
Aquatic Life - Current	None	Currently equation-based NH <sub>3</sub> criteria; Ohio-specific & tiered, varies by designated aquatic life / beneficial uses & OMZA <sup>2</sup> <a href="http://www.epa.ohio.gov/portals/35/rules/01-07.pdf">http://www.epa.ohio.gov/portals/35/rules/01-07.pdf</a>	
<i>Aquatic Life - Proposed</i>	Plan to propose Cl along with next TR. Possibly proposing the 1986 EPA recommendation (230 & 860), but would welcome a new national criteria.	Plan to propose EPA 2013 for Warm water = mussels present & salmonids absent. Cold water = either retain current criteria or propose EPA 2013 mussels present & salmonids present.	
<b>Virginia</b>			
<i>Freshwater Aquatic Life</i>	230 mg/L & 860 mg/L <sup>4</sup>	Currently holding stakeholder advisory meetings. Expect to ask Water Control Board for permission to publish proposal public notice late 2016 or spring 2017. <b>VA's concern:</b> Implementation has yet to be definitively addressed. One option discussed is through schedules of permit compliance.	
<i>Human Health</i>	250 mg/L <sup>5</sup> ( <i>Water Supply</i> )		Yes. VA plans to adopt. Part of the same rulemaking for ammonia criteria update.
<b>West Virginia</b>			
<i>Freshwater Aquatic Life</i>	230 mg/L & 860 mg/L <sup>4</sup>	No immediate plans to adopt EPA 2013, need to know if it is fully protective of mussels before change is sought	
<i>Human Health</i>	250 mg/L <sup>5</sup>		Not expecting to adopt this Triennial year—seeking further information from EPA on how HH Criteria Updates were developed
<b>Washington, D.C.</b>			
<i>Freshwater Aquatic Life</i>	No immediate plans for chloride	District is proposing EPA 2013 ammonia criteria during 2016 triennial review	
<i>Human Health</i>			District is proposing EPA 2015 HH criteria update during 2016 triennial review

	<b>CHLORIDE</b>	<b>AMMONIA</b>	<b>U.S. EPA's 2015 Human Health Criteria Updates</b>
<b>DRBC</b>			
<i>Freshwater Aquatic Life</i>	Zone 2: Max 15-day avg. 50 mg/L Zone 3: Max 30-day avg 180 mg/L at RM 98 (Water Supply) <sup>6</sup>	No immediate plans to adopt EPA 2013; but will coordinate with member states according to progress of their TR's	
<i>Human Health</i>			No immediate plans to adopt EPA 2015; but currently evaluating and will coordinate with member states according to their TR's; using DRBC Toxics Advisory Committee
<b>ORSANCO</b>			
<i>Human Health</i>	250 mg/L (applied in entire Ohio River)	1 mg/L (applied only at water intake)	Will consider EPA 2015 HH criteria for next triennial.
<i>Aquatic Life</i>		Adopted EPA 2013 <sup>7</sup> .	

<sup>1</sup>(ol) = organoleptic effect-based criteria

<sup>2</sup>(OMZA) = outside mixing zone average

<sup>3</sup>for the Lake Erie drainage basin and the Ohio River drainage basin

<sup>4</sup>USEPA, 1985. This value is based on a 304(a) aquatic life criterion that was derived using the 1985 Guidelines (Guidelines for Deriving Numerical National Water Quality Criteria for the Protection of Aquatic Organisms and Their Uses, PB85-227049, January 1985) and was issued in Chloride (EPA 440/5-88-001).

<sup>5</sup>EPA Gold Book, 1986

<sup>6</sup>Delaware River Basin Commission Water Quality Regulations, with Amendments thru Dec. 4, 2013. Article 3. (18 CFR Part 410)

<sup>7</sup>Regarding Ammonia EPA 2013: Trout absent. Mussels present is default. Mussels absent table included in standards.