ANNEX A

TITLE 25. ENVIRONMENTAL PROTECTION
PART I. DEPARTMENT OF ENVIRONMENTAL PROTECTION
Subpart C. PROTECTION OF NATURAL RESOURCES
ARTICLE II. WATER RESOURCES

CHAPTER 16. WATER QUALITY TOXICS MANAGEMENT STRATEGY—STATEMENT OF POLICY

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Subchapter A. GUIDELINES FOR DEVELOPMENT OF CRITERIA FOR TOXIC SUBSTANCES AND WATER QUALITY CRITERIA FOR TOXIC SUBSTANCES

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APPENDIX A

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TABLE 1A

SITE-SPECIFIC WATER QUALITY CRITERIA FOR TOXIC SUBSTANCES

The following table contains water quality criteria that were developed based on a need for a site-specific water quality criterion, and according to the guidelines for criteria development, as contained in this chapter. The sources the Department of Environmental Protection (Department) uses to obtain relevant risk assessment values for these criteria include, but is not limited to, United States Environmental Protection Agency agency-wide supported data systems such as Integrated Risk Information System (IRIS) and ECOTOX; the Great Lakes' Tier II **[**acquatic**]** **aquatic** life criteria guidelines; and other nationally developed criteria as reviewed and approved by the Department for Statewide use. A criterion placed in this table will remain a site-specific criterion as originally developed and be incorporated into the appropriate portion of § § 93.9a—93.9z that relates to ''exceptions to specific criteria'' unless, during rulemaking, it is determined that the same criteria has general Statewide applicability.

			*Fish and **[**Acquatic**]** **Aquatic** Life Criteria*					
PP NO	Chemical Name	CAS Number	Criteria Continuous Concentrations **[**(ug/l)**]** **(ug/L)**	Criteria Maximum Concentration **[**(ug/l)**]** **(ug/L)**	Human Health Criteria **[**(ug/l)**]** **(ug/L)**	Health Effect	Drainage List	Water Body/County
[-	1,4 Dioxane	123911	103000	515000	3.0	CRL	F	West Branch Perkiomen Creek, Berks

-	Acrylamide	79061	N/A	N/A	.008	CRL	S	County Stump Creek, Henderson Township, Jefferson County**]**

Acronyms and Footnotes to Table 1A

CAS—Chemical Abstract Service number
CRL—Cancer risk level at 1 x 10^{-6}
H—Threshold effect human health criterion; incorporates additional uncertainty factor for some Group C carcinogens.
1n [H]—Natural Logarithm of the Hardness of stream as mg/l $CaCO_3$
ug/L—Micrograms per liter
N/A—Criterion not developed
PP NO—Priority Pollutant Number

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TABLE 2A

APPROVED EPA **AND DEP ACCREDITED** ANALYTICAL METHODS AND DETECTION LIMITS: INORGANICS

Parameter (CAS)	**Method Number (Description) *Source**		**Detection Limit (MDL) (µg/[l]L)**
		**********	
11M	SILVER (07440224)	3111 B or C (AA, flame)	10
		3113 B (AA, furnace)	0.2
		200.7 (ICP/AES)	2
		200.8 (ICP/MS)	0.1
		200.9 (STGFAA)	0.6
		—*[3] (DCP)	NA
=	**STRONTIUM (07440246)**	**200.7 (ICP/AES)**	**0.01**
		200.8 (ICP/MS)	**2.0**
		6010B (ICP/AES)	**0.01**
		6020(ICP/MS)	**1.0**

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TABLE 2B

APPROVED EPA **AND DEP ACCREDITED** ANALYTICAL METHODS AND DETECTION LIMITS: ORGANICS

Parameter (CAS)	Method Number (Description) *Source		Detection Limit (MDL) (µg/**[l]L**)
		* * * * *	
—	**BENZENE METADISULFONIC ACID (00098486)**	**OR 357A Test America, HPLC/UV or LC/MS/MS**	**50**
—	**BENZENE MONOSULFONIC ACID (00098113)**	**OR 357A Test America, HPLC/UV or LC/MS/MS**	**50**
1A	2-CHLOROPHENOL (00095578)	604—GC/FID 604—GC/ECD 625—GC/MS 1625B—GC/MS(isotope)	0.31 0.58 3.3 10
		* * * * *	
7A	4-NITROPHENOL (00100027)	604—GC/FID 604—GC/ECD 625—GC/MS 1625B—GC/MS(isotope)	2.8 0.70 2.4 50
—	**NONYLPHENOL (00104405)**	**7065-06M—GC/MS D7485-09 – LC/LC/TANDEM MS**	**2.0 .033**
		* * * * *	
10A	PHENOL (00108952)	604—GC/FID 604—GC/ECD 625—GC/MS 1625B—GC/MS(isotope)	0.14 2.2 1.5 10

=	**P-PHENOL SULFONIC ACID (00098679)**	**OR 357A Test America, HPLC/UV or LC/MS/MS**	**50**
=	**RESORCINOL (01084603)**	**8270D—GC/MS**	**100**

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3V	BENZENE (00071432)	602—GC/PID 624—GC/MS 1624B—GC/MS(isotope)	0.20 4.4 10
=	**BENZYL CHLORIDE (00100447)**	**8021B—GC 8260B—GC/MS**	**1.0 .005-5.0**
5V	BROMOFORM (00075252)	601—GC/Hal. 624—GC/MS 1624B—GC/MS(isotope)	0.20 4.7 10
=	**2-BUTOXYETHANOL (00111762)**	**EPA R5/6LC – LC/MS/MS (DIRECT INJECT)**	**125**

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26V	1,2-trans-DICHLOROETHYLENE (00156605)	601—GC/Hal. 624—GC/MS 1624B—GC/MS(isotope)	0.10 1.6 10
=	**1,2-cis-DICHLOROETHYLENE (00156592)**	**601—GC/Hal. 624—GC/MS 1624B—GC/MS(isotope)**	**0.10 1.6 10**

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29V	TRICHLOROETHYLENE (00079016)	601—GC/Hal. 624—GC/MS 1624B—GC/MS(isotope)	0.12 1.9 10
=	**1,2,4-TRIMETHYLBENZENE (00095636)**	**524.2 – GC/MS 624 – GC/MS 8021B—GC 8260B—GC/MS**	**0.5 1.0 1.0 2.0**
=	**1,3,5-**	**524.2 – GC/MS**	**0.5**

	TRIMETHYLBENZENE (00108678)	**624 – GC/MS** **8021B—GC** **8260B—GC/MS**	**1.0** **1.0** **2.0**

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2B	ACENAPHTHYLENE (00208968)	610—GC/FID 610—HPLC 625—GC/MS 1625B—GC/MS(isotope)	NA 2.3 3.5 10
=	**ACRYLAMIDE (00079061)**	**8032A (GC)** **8316 (HPLC)**	**.032** **10**

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18B	CHRYSENE (00218019)	610—GC/FID 610—HPLC 625—GC/MS 1625B—GC/MS(isotope)	NA 0.15 2.5 10
=	**CYCLOHEXYLAMINE (00108918)**	**8270B—GC/MS**	**.01**

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29B	DI-N-OCTYL PHTHALATE (00117840)	606—GC/ECD 625—GC/MS 1625B—GC/MS(isotope)	3.0 2.5 10
=	**1,4-DIOXANE (00123911)**	**624—GC/MS** **625—GC/MS** **8260B —GC/MS** **8270L—GC/MS**	**1.0** **5.0** **0.1** **0.2**

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