

Pennsylvania State (Chapter 252) Accreditation							
Fields of Proficiency Testing							
Drinking Water							
Effective May 1, 2009							
	Matrix	Analyte			Matrix	Analyte	
		<b>Microbiology</b>				<b>Minerals</b>	
	Drinking Water	Total Coliform			Drinking Water	Chloride	
	Drinking Water	Fecal Coliform (P/A)	*		Drinking Water	Fluoride	
	Drinking Water	E.Coli (P/A)	*		Drinking Water	Nitrate as N	
	Drinking Water	Heterotrophic Plate Count			Drinking Water	Nitrite as N	
	Drinking Water	E. coli enumeration			Drinking Water	Nitrate + Nitrite as N	
	Drinking Water	Total Coliform Enumeration	*		Drinking Water	Ortho-Phosphate	
	Drinking Water	Fecal Coliform Enumeration	*				
		<b>Trace Metals</b>				<b>Inorganic Disinfection By-Products</b>	
	Drinking Water	Aluminum			Drinking Water	Bromate	
	Drinking Water	Antimony			Drinking Water	Bromide	
	Drinking Water	Arsenic			Drinking Water	Chlorate	
	Drinking Water	Barium			Drinking Water	Chlorite	
	Drinking Water	Beryllium				<b>Misc Analytes</b>	
	Drinking Water	Boron			Drinking Water	Alkalinity as CaCO <sub>3</sub> /L	
	Drinking Water	Cadmium			Drinking Water	Asbestos	
	Drinking Water	Calcium			Drinking Water	Ca Hardness as CaCO <sub>3</sub>	
	Drinking Water	Chromium			Drinking Water	Total Hardness as CaCO <sub>3</sub>	
	Drinking Water	Copper			Drinking Water	Cyanide	
	Drinking Water	Iron			Drinking Water	pH	
	Drinking Water	Lead			Drinking Water	Residual Free Chlorine	
	Drinking Water	Magnesium			Drinking Water	Total Residual Chlorine	
	Drinking Water	Manganese			Drinking Water	Sodium	
	Drinking Water	Mercury			Drinking Water	Specific Conductance	
	Drinking Water	Molybdenum			Drinking Water	Sulfate	
	Drinking Water	Nickel			Drinking Water	Total Filterable Residue	
	Drinking Water	Potassium			Drinking Water	Total Organic Carbon	
	Drinking Water	Selenium			Drinking Water	Turbidity	
	Drinking Water	Silver					
	Drinking Water	Thallium					
	Drinking Water	Uranium (Natural mass)					
	Drinking Water	Vanadium					
	Drinking Water	Zinc					

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	Matrix	Analyte			Matrix	Analyte	
						Unregulated VOCs <sup>4,5</sup>	
					Drinking Water	Bromobenzene	
		Regulated VOCs <sup>4,5</sup>			Drinking Water	Bromochloromethane	
	Drinking Water	Benzene			Drinking Water	Bromomethane	
	Drinking Water	Carbon Tetrachloride			Drinking Water	n-Butylbenzene	
	Drinking Water	Chlorobenzene			Drinking Water	Sec-Butylbenzene	
	Drinking Water	1,2-Dibromo-3-chloropropane (DBCP)			Drinking Water	Tert-Butylbenzene	
	Drinking Water	1,2-Dichlorobenzene			Drinking Water	Chloroethane	
	Drinking Water	1,4-Dichlorobenzene			Drinking Water	Chloromethane	
	Drinking Water	1,2-Dichloroethane			Drinking Water	2-Chlorotoluene	
	Drinking Water	1,1-Dichloroethylene			Drinking Water	4-Chlorotoluene	
	Drinking Water	Cis-1,2-Dichloroethylene			Drinking Water	Dibromomethane	
	Drinking Water	Trans-1,2-Dichloroethylene			Drinking Water	1,3-Dichlorobenzene	
	Drinking Water	Dichloromethane (Methylene Chloride)			Drinking Water	Dichlorodifluoromethane	
	Drinking Water	1,2 Dichloropropane			Drinking Water	1,1-Dichloroethane	
	Drinking Water	Ethylbenzene			Drinking Water	1,3-Dichloropropane	
	Drinking Water	Ethylene Dibromide (EDB)			Drinking Water	2,2-Dichloropropane	
	Drinking Water	Styrene			Drinking Water	1,1-Dichloropropene	
	Drinking Water	Tetrachloroethylene			Drinking Water	Cis-1,3-Dichloropropene	
	Drinking Water	Toluene			Drinking Water	Trans-1,3-Dichloropropene	
	Drinking Water	1,1,1-Trichloroethane			Drinking Water	Hexachlorobutadiene	
	Drinking Water	1,1,2-Trichloroethane			Drinking Water	Isopropylbenzene	
	Drinking Water	Trichloroethylene			Drinking Water	4-Isopropyltoluene	
	Drinking Water	1,2,4-Trichlorobenzene			Drinking Water	Methyl-tert-butylether (MTBE)	
	Drinking Water	Vinyl Chloride			Drinking Water	n-Propylbenzene	
	Drinking Water	Total Xylenes			Drinking Water	1,1,1,2-Tetrachloroethane	
					Drinking Water	1,1,2,2-Tetrachloroethane	
					Drinking Water	1,2,3-Trichlorobenzene	
					Drinking Water	Trichlorofluoromethane	
					Drinking Water	1,2,3-Trichloropropane	
					Drinking Water	1,2,4-Trimethylbenzene	
					Drinking Water	1,3,5-Trimethylbenzene	

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	Matrix		Analyte			Matrix	Analyte
							<b>Organic Disinfection By-Products</b>
			<b>Pesticides<sup>5</sup></b>			Drinking Water	Chloral Hydrate
	Drinking Water		Alachlor				
	Drinking Water		Aldrin				<b>Haloacetic acids<sup>2</sup></b>
	Drinking Water		Atrazine			Drinking Water	Bromochloroacetic Acid
	Drinking Water		Butachlor			Drinking Water	Dibromoacetic Acid
	Drinking Water		Chlordane (technical)			Drinking Water	Dichloroacetic Acid
	Drinking Water		Dieldrin			Drinking Water	Monobromoacetic Acid
	Drinking Water		Endrin			Drinking Water	Monochloroacetic Acid
	Drinking Water		Heptachlor			Drinking Water	Trichloroacetic Acid
	Drinking Water		Heptachlor Epoxide (beta)				
	Drinking Water		Hexachlorobenzene				<b>Trihalomethanes<sup>2</sup></b>
	Drinking Water		Hexachlorocyclopentadiene			Drinking Water	Bromodichloromethane
	Drinking Water		Lindane			Drinking Water	Bromoform
	Drinking Water		Methoxychlor			Drinking Water	Chlorodibromomethane
	Drinking Water		Metolachlor			Drinking Water	Chloroform
	Drinking Water		Metribuzin				
	Drinking Water		Propachlor				
	Drinking Water		Simazine				
	Drinking Water		Toxaphene (total)				<b>Adipate/Phthalate</b>
	Drinking Water		Trifluralin			Drinking Water	Di(2-Ethylhexyl) Adipate
						Drinking Water	Di(2-Ethylhexyl) Phthalate
			<b>Herbicides<sup>5</sup></b>				
	Drinking Water		Acifluorfen				
	Drinking Water		2,4-D				
	Drinking Water		2,4-DB				
	Drinking Water		Dalapon				
	Drinking Water		Dicamba				
	Drinking Water		Dinoseb				
	Drinking Water		Diquat				
	Drinking Water		Endothall				
	Drinking Water		Glyphosate				
	Drinking Water		Pentachlorophenol				
	Drinking Water		Picloram				
	Drinking Water		2,4,5-TP (Silvex)				
	Drinking Water		2,4,5-T				

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	Matrix	Analyte			Matrix	Analyte	
						<b>Radiochemistry<sup>3</sup></b>	
		<b>PCBs in Water<sup>1</sup></b>			Drinking Water/NPW	Gross Alpha	
	Drinking Water	PCBs as decachlorobiphenyl			Drinking Water/NPW	Gross Beta	
	Drinking Water	PCB Aroclor Identification			Drinking Water/NPW	Barium 133	
					Drinking Water/NPW	Cesium 134	
		<b>PAH</b>			Drinking Water/NPW	Cesium 137	
	Drinking Water	Benzo(a)pyrene			Drinking Water/NPW	Cobalt 60	
					Drinking Water/NPW	Iodine 131	
		<b>Carbamates &amp; Vydate</b>			Drinking Water/NPW	Radium 226	
	Drinking Water	Aldicarb			Drinking Water/NPW	Radium 228	
	Drinking Water	Aldicarb Sulfone			Drinking Water/NPW	Strontium 89	
	Drinking Water	Aldicarb Sulfoxide			Drinking Water/NPW	Strontium 90	
	Drinking Water	Carbaryl			Drinking Water/NPW	Tritium	
	Drinking Water	Carbofuran			Drinking Water/NPW	Uranium (Natural)	
	Drinking Water	3-Hydroxycarbofuran			Drinking Water/NPW	Zinc 65	
	Drinking Water	Methomyl					
	Drinking Water	Oxamyl (Vydate)					
		<b>Dioxin</b>					
	Drinking Water	2,3,7,8-Tetrachloro-dibenzodioxin					
1) One sample in every study, containing one or more Aroclors, selected at random from among the Aroclors listed (1016, 1221, 1232, 1242, 1248, 1254 or 1260) for the analysis of PCBs as decachlorobiphenyl.							
2) Laboratories seeking or maintaining accreditation for Drinking Water, Total Trihalomethanes must meet PT requirements for all 4 Trihalomethane Fields of Proficiency Testing in the given study, by technology/method (Chloroform, Bromoform, Bromodichloromethane, Chlorodibromomethane). Laboratories seeking or maintaining accreditation for Drinking Water, Total Haloacetic Acids must meet PT requirements for 4 out of 5 regulated Haloacetic Acid Fields of Proficiency Testing in the given PT study, by technology/method (Monochloroacetic Acid, Monobromoacetic Acid, Dichloroacetic Acid, Dibromoacetic Acid, Trichloroacetic Acid).							
3) The PT study samples available for the Radiochemistry group are acceptable for both the Drinking Water and Non-potable Water matrices.							
4) Unless a fixed limit is specified, the acceptance limits for Regulated volatiles are $\pm 20\%$ at $\geq 10$ ug/L or $\pm 40\%$ at $< 10$ ug/L and the acceptance criteria for <b>Unregulated</b> volatiles are $\pm 20\%$ at $\geq 15$ ug/L or $\pm 40\%$ at $< 15$ ug/L.							
5) For volatiles, pesticides and herbicide PT samples, providers must include a minimum number of analytes using the same criteria described in the most recent NELAC Standard.							