It is preferred that toxicity testing for additive reviews is conducted according to USEPA (aquatic) or ASTM (sediment) methods, or that toxicity testing is conducted at a Wisconsin-certified laboratory.

However, toxicity testing is sometimes conducted using other methods. In order to streamline the additive review process, a list of preferred and previouslyevaluated acceptable alternative methods can be found in the table below. This list will periodically be updated if new methods are evaluated.

If the toxicity testing method you are looking for does not appear in the table below, please contact Meghan Williams, Water Evaluation Toxicologist, at meghanc3.williams@wisconsin.gov or 608-267-7654.

Test type	Species	Preferred methods	Acceptable alternative methods
Water column tes	sts		
Acute toxicity			
	Ceriodaphnia dubia (water flea)	EPA 2002.0	40 CFR Part 797.1300
		EPA-821-R-02-012	
	Ceriodaphnia reticulate (water flea)		
	Ceriodaphnia serrulatus (water flea)		
	Daphnia pulex and Daphnia magna (water flea)	EPA 2021.0	OECD 202
		EPA-821-R-02-012	40 CFR Part 797.1300
	Pimephales promelas (Fathead minnow)	EPA 2000.0	OECD 203
		EPA-821-R-02-012	40 CFR Part 797.1400
	Oncorhynchus mykiss (Rainbow trout)	EPA 2019.0	OECD 203
		EPA-821-R-02-012	40 CFR Part 797.1400
	Salvelinus fontinalis (Brook trout)	EPA 2019.0	
		EPA-821-R-02-012	
	Lepomis macrochirus (Bluegill)		OECD 203
			40 CFR Part 797.1400
Chronic toxicity			
	Pimephales promelas (Fathead minnow), larval	EPA 1000.0	Environment Canada EPS 1-RM-22
	survival and growth	EPA-821-R-02-013	
	Pimephales promelas (Fathead minnow), embryo-	EPA 1001.0	
	larval survival and teratogenicity		
	Ceriodaphnia dubia (water flea), survival and	EPA 1002.0	Environment Canada EPS 1-RM-21
	reproduction	EPA-821-R-02-013	
Whole-sediment	tests		
Acute toxicity			
-	Ceriodaphnia dubia (water flea)	ASTM E1706	
	Daphnia magna (water flea)	ASTM E1706	
Chronic toxicity			
-	Hyalella azteca (amphipod)	ASTM E1706	



List is current as of May 2021