ERP Toxicity Review Checklist – Acute test

01/15/2020

Project Name & Permit #_____

Bioassay Lab: _____ Test Start Date: _____

Check that each of the following factors are present and acceptable for each species tested. I = invertebrate, F= fish	I	F
1. The bioassay is for the correct test (acute) and species		
2. The bioassay lab is on the DOH list of certified labs for the test performed.		
3. The Chain of Custody form is filled out. Arrival Temperature is ≤ 6°C.		
4. Does the effluent preparation match permit requirements?		
5. Was the elapsed time from the last sample collected and first use in the bioassay < 36 hrs?		
6. Did the test last 96 hours?		
7. Were the test solutions renewed at 48 hours?		
8. Were there a minimum of five concentrations of effluent? Check permit for required dilutions.		
9. Was the correct dilution water used? Freshwater tests – Moderately hard dilution water. Saltwater tests – Artificial seawater - check permit for required salinity.		
10. Was the correct volume of test solution used in each test chamber? **C. dubia** - 15 mL recommended minimum **C. leedsi, A. bahia, M. beryllina** – 200 mL recommended minimum		
11. Were the correct number of test organisms placed in each test chamber? **C. dubia** - 5 required minimum **C. leedsi, A. bahia, M. beryllina** – 10 required minimum		
12. Were the correct number of replicate test chambers used for each concentration? **C. dubia** – 4 required minimum **C. leedsi, A. bahia, M. beryllina** – 2 required minimum		
13. Was the control survival greater than 90%?		
14. Were the test organisms the correct age? **C. dubia** - < 24 hours, ≤ 8 hr age range; **C. leedsi**–1-14 days, ≤ 24 hr age range **A. bahia** – 1–5 days, ≤ 24 hr age range; **M. beryllina**-9-14 days, ≤ 24 hr age range		
15. Was the test run at the correct temperature? 20 ± 1°C or 25 ± 1°C		
16. Was the temperature range ≤ 3°C?		
17. Was DO checked each day?		
18. Were the test solutions aerated? Only if DO falls below 4.0 mg/L. Aerate all sample chambers. Not for **C. dubia**.		
19. Did the lab calculate the LC50?		
20. Did the results meet the permit limit? (LC50 > 100% effluent)		

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21. Did the lab include their monthly standard reference toxicant data in the report?		
22. Was the monthly SRT test a valid test?		
23. Did the lab submit their QA chart?		
24. Was the monthly result within the 2 s.d.?		
25. Did the lab submit their CV chart?		
26. Was the CV (standard deviation/mean) within control limits?		
27. Was this a valid toxicity test?		

Record Invertebrate SRT test species and test start date: _____

Record Fish SRT test species and test start date: _____

Reviewer's Name: _____ Review Date: _____

Comments: _____

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