

Effluent Aquatic Toxicity Report Form - Acute Pass/Fail Date _____

Facility _____ NPDES#NC _____ Pipe # _____ County _____

Laboratory Performing Test _____

x _____

Signature of Operator in Responsible Charge _____

x _____

Signature of Laboratory Supervisor _____

Comments _____

MAIL ORIGINAL TO:

Environmental Sciences Branch
 Div. of Water Quality
 N.C. DENR
 1621 Mail Service Center
 Raleigh, North Carolina 27699-1621

North Carolina Acute Pass/Fail Toxicity Test

Collection Date: _____ Collection Time: _____ Test Start Date: _____	<p align="center">Organism Tested</p> _____																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th align="left" colspan="3">Sample Type/Duration</th> <th rowspan="2" style="writing-mode: vertical-rl; transform: rotate(180deg);">Dilution</th> <th rowspan="2" style="writing-mode: vertical-rl; transform: rotate(180deg);">Toxicant</th> </tr> <tr> <th>Grab</th> <th>Comp.</th> <th>Duration</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Hardness(mg/l)</td> <td style="width: 20px;"> </td> <td style="width: 20px;"> </td> </tr> <tr> <td style="padding: 2px;">Spec.Cond.(µmhos)</td> <td> </td> <td> </td> </tr> <tr> <td style="padding: 2px;">Chlorine(mg/l)</td> <td> </td> <td> </td> </tr> <tr> <td style="padding: 2px;">Sample temp. at receipt</td> <td> </td> <td> </td> </tr> </table>	Sample Type/Duration			Dilution	Toxicant	Grab	Comp.	Duration											Hardness(mg/l)			Spec.Cond.(µmhos)			Chlorine(mg/l)			Sample temp. at receipt			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="padding: 5px; vertical-align: middle;">pH</td> <td style="padding: 5px;">Control</td> <td style="width: 30px;"> </td> <td style="width: 30px;"> </td> </tr> <tr> <td style="padding: 5px;">Treatment</td> <td> </td> <td> </td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center; padding: 5px;">s t a r t</td> <td style="text-align: center; padding: 5px;">e n d</td> </tr> <tr> <td rowspan="2" style="padding: 5px; vertical-align: middle;">D.O.</td> <td style="padding: 5px;">Control</td> <td> </td> <td> </td> </tr> <tr> <td style="padding: 5px;">Treatment</td> <td> </td> <td> </td> </tr> </table>	pH	Control			Treatment					s t a r t	e n d	D.O.	Control			Treatment		
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Mortality		Replicate				Mean Mortality
Treatment 1 (Control)		A	B	C	D	
Treatment 2 (Exposure)		A	B	C	D	
Concentration Tested						

(NOTE: If mean control mortality exceeds 10%, the test is considered invalid)

Calculate using Arc-Sine Square Root transformed data	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Calculated Student's t</td> <td style="width: 50px;"> </td> <td style="padding: 5px;">PASS</td> <td style="width: 50px;"> </td> </tr> <tr> <td style="padding: 5px;">Tabular Student's t (ONE TAILED)</td> <td> </td> <td style="padding: 5px;">FAIL</td> <td> </td> </tr> </table>	Calculated Student's t		PASS		Tabular Student's t (ONE TAILED)		FAIL	
Calculated Student's t		PASS							
Tabular Student's t (ONE TAILED)		FAIL							
If the absolute value of the calculated t is less than or equal to the absolute value of the tabular t, check PASS. If the absolute value of the calculated t is greater than the absolute value of the tabular t, check FAIL. If all vessels within each treatment have the same response but the treatment two response is greater than the control, check FAIL.									