



**Iowa Department of Natural Resources  
Effluent Toxicity Testing Report Form  
48-Hour Acute Test**

**FACILITY DATA**

Facility Name: Bayer NPDES # IA: IA 7000102  
 Address: 2500 Wiggins Rd  
 City/State/Zip: Muscatine, IA, 52761  
 Lab Sample #: 60480551 Date Collected: 8/12/25  
 Sampling Location: 001  
 Diluted effluent sample ratio (from permit): 11.3  
 Date Received: 8/13/25 Temperature Upon Receipt: 3.0

**ORGANISM DATA**

Pimephales promelas age: 8 Days Ceriodaphnia dubia age: <24  
 Reference Toxicant: NACL Reference Toxicant: NACL  
 Reference LC50 (95% Conf. Interval): 8.22 gm/L Reference LC50 (95% Conf. Interval): 2.56 gm/L

**SAMPLE DATA (100% EFFLUENT)**

Temperature	25	°C	Ammonia Nitrogen (as N)	N/A	mg/L
Initial D.O.	9.0	mg/L	D.O. (end of test)	7.9	mg/L
pH (start of test)	7.7	Units	pH (end of test)	8.1	Units
Total Ammonia (as NH3)	N/A	mg/L	Unionized Ammonia (calculated as NH3)	N/A	mg/L
Total Residual Chlorine	<.1	mg/L	Specific Conductance	665	µmhos

**MORTALITY DATA**

Laboratory (Name): Pace Analytical  
 Test begun (Date): 8/13/25 Test ended (date): 8/15/25

Conc.	Pimephales promelas Mortality (Number Dead/Number Tested)						Ceriodaphnia dubia Mortality (Number Dead/Number Tested)					
	Bk. 1	Bk. 2	Bk. 3	Bk. 4	Pass	Fail	Bk. 1	Bk. 2	Bk. 3	Bk. 4	Pass	Fail
Control	0/10	0/10	0/10	0/10			0/5	0/5	0/5	0/5		
11.3 %	0/10	0/10	0/10	0/10	( <input checked="" type="checkbox"/> )	( <input type="checkbox"/> )	0/5	0/5	0/5	0/5	( <input checked="" type="checkbox"/> )	( <input type="checkbox"/> )
%					( <input type="checkbox"/> )	( <input type="checkbox"/> )					( <input type="checkbox"/> )	( <input type="checkbox"/> )
%					( <input type="checkbox"/> )	( <input type="checkbox"/> )					( <input type="checkbox"/> )	( <input type="checkbox"/> )
%					( <input type="checkbox"/> )	( <input type="checkbox"/> )					( <input type="checkbox"/> )	( <input type="checkbox"/> )
100%	0/10	0/10	0/10	0/10	( <input checked="" type="checkbox"/> )	( <input type="checkbox"/> )	0/5	0/5	0/5	0/5	( <input checked="" type="checkbox"/> )	( <input type="checkbox"/> )

EFFLUENT TOXICITY TESTING RESULTS: PASS () FAIL ()

Comments:

Date Reported: 8/18/25