

Effluent Quality Assessment

Millennium Specialty Chemical

Duval County

NPDES #FL0000884

Sampled September 24, 2007

January 2008

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

Millennium Specialty Chemical, 601 Crestwood Street, Jacksonville, Duval County, Florida, 32208, NPDES #FL0000884. Effluent samples for this facility were collected on September 24, 2007.

Introduction

Millennium Specialty Chemical is an Organic Chemicals Manufacturing facility that manufactures fragrance, flavor, and organic chemicals. The facility operates an industrial wastewater treatment facility for treating non-process wastewater from boiler blow-down, cooling tower blow-down, water softener blow-down, steam condensate wastewater treated with sodium zeolite water treatment units, and non-contact cooling water. The facility has a design flow of 0.8 million gallons per day (MGD) with a maximum daily flow of 5.0 MGD. The flow during the sampling event was 0.091 MGD. The AADF from September 24, 2006, through September 24, 2007, was 0.1 MGD. Wastewater is treated through primary settling of suspended particulates, cooling in a 1.3 MG lined-pond, disinfection through an ultra-violet unit, and treatment through two Storm Filter® treatment units. The effluent then discharges to a lift station which pumps the treated water to Outfall D-001 for discharge into the Class III Marine waters of Moncrief Creek. Outfall D-001 is located approximately at latitude 30º 22' 51" N, longitude 81º 39' 58" W.

The facility is permitted for land application of treated non-process wastewater through Outfall R-001 as irrigation water for the First Tee Golf Course at Brentwood, Jacksonville. In addition to the treatment above, non-process wastewater is chlorinated prior to discharge through a reuse transmission force-main to the pond system at the First Tee Golf Course.

There are no Administrative Orders or Consent Orders for this facility. The facility has no mixing zones. A review of Discharge Monitoring Report (DMR) data for the past year revealed no permit violations or plant upsets. (Facility information provided by Reza Shayan of FDEP Northeast District.)

Methods

Samples were collected from the EFF-1 NPDES sampling point (discharge pipe from treatment system before discharge through outfall pipe to Moncrief Creek) for Outfall D-001 by Eesa Ali and Beth Murphy (FDEP Northeast District) following DEP-SOP-001/01 FS 2400 Wastewater Sampling. All DEP SOPs are available on the web at: http://www.floridadep.org/labs/qa/sops.htm.

See Appendix A for the completed chain of custody form.

The 96-hour acute screening toxicity tests and algal growth potential test were performed following internal DEP SOPs TA07_01, TA07_02, and TA08_01 through TA08_09. All internal DEP SOPs are available on the web at: http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp. The tests were performed per permit conditions except that the samples were collected as grab samples rather than the permit-required 24-hour composite samples.

Toxicity Test Results

Tests were performed September 25 - 29, 2007.

Ceriodaphnia dubia 96-hour acute screening bioassay – LC_{50} > 100%, 0% mortality in 100% sample at 96 hours

Cyprinella leedsi 96-hour acute screening bioassay – LC_{50} > 100%, 0% mortality in 100% sample at 96 hours

The bioassay samples were not acutely toxic to the test organisms.

See Appendix B for bioassay bench sheets. See Appendix C for results of the last 20 standard reference toxicant (SRT) tests and the bench sheets and statistical analyses of the SRT tests that correspond to these facility tests. See Appendix D for test organism receipts.

Algal Growth Potential

The effluent Algal Growth Potential (AGP) was 9.43 mg dry wt/L of the unicellular green alga, *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum*. Raschke and Shultz (1987) found that AGP values above 5.0 mg dry weight/L represent a “problem” threshold for fresh receiving waters, implying nutrient enrichment. The analytical chemistry suggests that the effluent is nitrogen-limited. The predicted AGP based on inorganic nitrogen and total nitrogen concentrations were 2.68 (±20%) and 13.7 (±20%) mg dry wt/L, respectively (Table 1; Miller et al. 1978). A saltwater AGP test was not performed; however, the freshwater AGP results suggest that nutrient enrichment may be an issue.

See Table 1 for AGP results.

Chemistry Results

Total residual chlorine and total ammonia were not detected in the bioassay sample in the laboratory. The total ammonia concentration in the sample collected and preserved for chemical analysis was 0.011 mg/L, between the laboratory method detection limits (MDL) and practical quantitation limits (PQL). Based on the pH, salinity, and temperature of the effluent as collected, the calculated unionized ammonia concentration was ≤ 0.02 mg/L.

Copper, iron, and nickel were detected in the effluent at levels that comply with Class III marine water quality criteria (62-302.530, F.A.C.). Lead and zinc were detected between the MDL and PQL.

See Table 2 for results of analytes detected in the effluent, and corresponding limits. See Appendix E for a complete list of chemical analyses performed.

Conclusion

The effluent sample collected from the EFF-1 NPDES sampling point for Outfall D-001 for this facility on September 24, 2007, was not acutely toxic to either test species during the 96-hour acute screening bioassays. The effluent AGP result exceeded the "problem” threshold for fresh receiving waters. Effluent water quality samples did not exceed any applicable water quality standards or violate any permit conditions.

Literature Cited

Miller, W. E., T. E. Maloney, and J. C. Greene. 1978. The *Selenastrum capricornutum* Printz algal assay bottle test. EPA-600/9-78-018. U. S. EPA, Cincinnati, Ohio. 126 p.

Raschke, R. L. and D. A. Schultz. 1987. The use of the algal growth potential test for data assessment. J. Wat. Poll. Cont. Fed. 59(4): 222-227.

Table 1. Measured and predicted algal growth potential (AGP; mg dry weight/L) of the saltwater species *Dunaliella tertiolecta* and ratios of nitrogen to phosphorus in samples collected from the Millennium Specialty Company on September 24, 2007.

Millennium Specialty Chemical				
Location	AGP (measured)		Inorganic N:P ratio	Total N:P ratio
Effluent	9.4	A	4.5	3.7

Table 2. Effluent limits, Class III Criteria for predominantly marine waters and chemical and microbiological data for samples from the Millennium Specialty Chemical facility collected on September 24, 2007.

Millennium Specialty Chemical NPDES# FL0000884	Class III Standards	Effluent Limits	Effluent	
Metals (µg/L unless otherwise noted)				
Aluminum	≤ 1,500	-	60	U
Arsenic	≤ 50	-	0.5	U
Cadmium	≤ 8.8	-	0.02	U
Calcium (mg/L)	-	-	42.5	
Chromium-III	-	-	1	U
Chromium-VI	≤ 50	≤ 50	-	
Copper	≤ 3.7	≤ 2.9	1.78	
Iron	≤ 300	≤ 300	210	
Lead	≤ 8.5	≤ 5.6	0.31	I
Magnesium (mg/L)	-	-	15.6	
Nickel	≤ 8.3	-	5.32	
Selenium	≤ 71	-	0.5	U
Silver	≤ 2.3	-	0.025	U
Zinc	≤ 86	≤ 86	14	I
Nutrients (mg/L)				
Ortho-phosphate	-	-	0.015	
Total Phosphorus	-	-	0.11	
Total Ammonia	-	-	0.011	I
Un-ionized Ammonia	-	-	≤ 0.02	c
Nitrate and Nitrite	-	-	0.057	
Total Kjeldahl Nitrogen	-	-	0.35	
Organic Nitrogen	-	-	0.339	c
Total Nitrogen	-	-	0.407	c
General Physical and Chemical Parameters				
Dissolved Oxygen (mg/L)	≥ 4.0	-	7.1	
pH (SU)	6.5 - 8.5	6.5 - 8.5 s	7.5	
Conductivity (µmhos/cm)	-	-	585	
Temperature °C	-	≤ 38.0 s	31.5	
Salinity	-	-	< 0.25	c
Sample Depth (m)	-	-	0.2	
Bromine (mg/L)	≤ 0.1	≤ 0.1 s	-	
Total Residual Chlorine (mg/L)	≤ 0.01	≤ 0.01 s	< 0.03	£
Chlorophyll a (µg/L)	-	-	2.5	
Phaeophytin (µg/L)	-	-	3	
Phenolic compounds, total recoverable (mg/L)	-	≤ 0.3 s	none detected	
COD (mg/L),	-	Report	-	
Oils and Greases (mg/L)	≤ 5	≤ 5 s	1.7	U
Organic Carbon (mg/L)	-	Report	-	
Flow (MGD)	-	≤ 5	0.1 a	
Hardness (mg $CaCO_3$)	-	-	170.36	c
Microbiology (Number of colony forming units/100ml)				
Fecal Coliforms	≤ 800 s	≤ 800 s	9	AB
Total Coliforms	-	≤ 2400 s	-	

Value exceeds the Class III Water Quality Criteria or permit limits

a - Annual average
c - Value is calculated
s - Single grab sample
A - Value reported is the mean of two or more determinations
B - Results based on colony counts outside the acceptable range
I - The reported value is between the laboratory MDL and the laboratory PQL
U - Material analyzed for but not detected; value reported is the method detection limit
£ - Analysis performed in Bioassay Laboratory

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ-2007-09-24-27
Millenium Specialty Chemicals

Requester: Shannan Bogdanov
Field Report Prepared By: EA
Collected By: EA / BM
Send Final Report To: Tom Kallemeyn
Sampling Agency: DEP

Customer: NE-DIST
Project ID: FYI3
PMAS: 1143

Lab ID *	Location	Comp / Grab	Collection (begin) Date Time Eastern Central	Collection (end) Date Time Eastern Central	Bottle Group(s)**
	Millenium Specialty Chemi.	☐ Comp ☑ Grab	9/24/07 1120		A
	Field ID: FL0000084	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L): 7.11	Storet Station Number	
	Matrix (Include type e.g. Salt, Fresh, etc)	Temp (C): 31.52	pH: 7.45	Sample Depth: 0.2 ☑ m ☐ ft	0.28 ☑ Salinity (PPTh) 585 ☑ Sp Conductance (umho/cm)	NPDES Number
	Latitude o ' "	Longitude o ' "	Comments: DO01		

Lab ID *	Location	Comp / Grab	Collection (begin) Date Time Eastern Central	Collection (end) Date Time Eastern Central	Bottle Group(s)**
	Blank	☐ Comp ☑ Grab	9/24/07 1140		B
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (Include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number
	Latitude o ' "	Longitude o ' "	Comments		

Lab ID *	Location	Comp / Grab	Collection (begin) Date Time Eastern Central	Collection (end) Date Time Eastern Central	Bottle Group(s)**
		☐ Comp ☐ Grab			
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (Include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number
	Latitude o ' "	Longitude o ' "	Comments		

Lab ID *	Location	Comp / Grab	Collection (begin) Date Time Eastern Central	Collection (end) Date Time Eastern Central	Bottle Group(s)**
		☐ Comp ☐ Grab			
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (Include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number
	Latitude o ' "	Longitude o ' "	Comments: 2 Bottles Left in Lab 10/3 9.25.07 FD Samples		

Relinquished By:	Date/Time	Shipping Method:	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
E.Ahi	9/24/07	DHL						9.25.07 / 8:45am

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

FDEP Biology Laboratory - Acute Screen Bioassay Bench Sheets

Facility: Millennium Specialty Chemicals, Inc

Address: 601 Crestwood St. 32208

City: Jacksonville County: Duval

Contact/District: Shannon Bogdanow / North East

NPDES Permit #: FL 0000884

LIMS Job #: TLH-2007-09-25-23-01 LIMS Sample #: 1047965

Lims Data Entry: 10-3-07 MF Data Entry Verification: 10-4-07 BA

Sample Collection: Date: 9.24.07 Time: 11:20

Hold Time Start: Date: 9.24.07 Time: 11:30

Comments:

Instructions (for below): Circle appropriate wording. If yes is circled, complete blanks.

Test Type: Screen

Static / (Static Renewal) / Flow-through

Test Duration: 48 / (96) Hours.

Test 1 validation: **Test 1:** SOP TA 07 01

Control survival ≥90%: (Yes) No

Temperature Range ≤3°C: (Yes) No

Test 2 validation: **Test 2:** SOP TA 07 02

Control survival ≥90%: (Yes) No

Temperature Range ≤3°C: (Yes) No

Initial sample handling:

PH adjustment: yes (no) Initial pH: ____ NaOH N HCl N ____ Drops mL Final pH: ____

Aeration: yes (no) Initial DO: ____mg/L Final DO: ____mg/L Duration: ____minutes Rate: ~ ____bubbles/min

Salinity adjusted (Test 1): yes (no) Initial Salinity: ____ Final Salinity: ____ Salts Hypersaline brine

Salinity adjusted (Test 2): yes (no) Initial Salinity: ____ Final Salinity: ____ Salts Hypersaline brine

Dechlorination: yes (no) ____mL of 0.025N Sodium Thiosulfate per liter of sample. Final TRC: ____

Sample Validation:

Temperature: Shipped ≤6°C (Yes) No Hand Delivered: Cooling (received °C < collected °C) (Yes) No

Holding Time: ≤36 Hours (Yes) No (Composite-end of collection; grab-when collected; 4 in 24 - time last sample collected)

Light Intensity: 50 - 100 ft. candles

Photoperiod: 16 light 8 dark

Temperature Range °C:

Incubator # 2 min 24.8 max 25.9 mean 25.4

Incubator # ____ min ____ max ____ mean ____

Room B246 min 24.8 max 26.1 mean 25.6

Investigators' Signatures

James Daniels

Brian Atkins

Marshall Fairbanks

Loretta C. Wolfe

REVIEWER

Water Quality Parameters	20% DMW	Moderately Hard Water/ (Well Water)	Salt Water ASW NSW Test 1	Salt Water ASW NSW Test 2	Other:	Original Sample	Method	Measured by	Verified by
Field Total Residual Cl_2 (mg/L):	N/A	N/A	N/A	N/A		NOT measured			MF
Lab Total Residual Cl_2 (mg/L):	<0.03	<0.03				<0.03	HACH	JD	MF
Alkalinity (mg/L as $CaCO_3$):	85	140				145	HACH	BA	MF
Hardness (mg/L as $CaCO_3$):	84	137				165	HACH	BA	MF
Total Ammonia (mg/L as N):	<0.017	<0.017				<0.017	DENVER	MF	JD
Salinity (pplh):	<1	<1				<1	YSI (Mettler)	BA	MF

V 1.4 9/12/05

FDEP Biology Laboratory - Bioassay Survival Bench Sheet

LIMS Sample #: 1047965 Test #: 1/2 SOP#:TA 07 01 Test Started: Date 9.25.07 Time: 1315

Organism/Batch/Age: C. dubia/38-07/<24hrs Test Ended: Date 9.29.07 Time: 1115

Chamber/Test Volume: 30 / 120 ml Diluent/ Batch: DMW / 9.22.07

Food/Batch: YCT ~~7.26.07~~ 4.4.07 [illegible] P.sub 9.26.07 Artemia 0hr — 24hr — 48hr — 72hr — Artemia Lot# —

Feeding: (Prior to Test) (Prior to Renewal) Daily

Concentration	Replicate	Chamber #	0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
Ctrl	A	A	5	5	5	5	5	5
	B	B	5	5	5	5	5	5
	C	C	5	5	5	5	5	5
	D	D	5	5	5	5	5	5/10
100%	A	A	5	5	5	5	5	5
	B	B	5	5	5	5	5	5
	C	C	5	5	5	5	5	5
	D	D	5	5	5	5	5	5
Loaded/Verified by: BA / JD		Checked by:	JD	BA	BA	BA	BA	JD

m = missing d = dead BR/AR = Before/After Renewal

Comments:

Test Results:

Screening Tests: Report LC50 as >100%, =100%, or <100%.

% mortality in 100% sample: Ø LC50: >100%

If Calculated: 95% CI______ Method______

Substitue highest test concentration used if other than 100% (example: Ocean outfall tested at 30% concentration).

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Appendix B. (continued)

FDEP Biology Laboratory - Bioassay Survival Bench Sheet

LIMS Sample #: 1047965 Test #: 2/2 SOP#:TA 07 02 Test Started: Date 9.25.07 Time: 1330

Organism/Batch/Age: S.kedsi/9.25.07/11days Test Ended: Date 92507 Time: 1130

Chamber/Test Volume: 1000 / 500 ml Diluent/ Batch: Vell H2O / 9.24.07

Food/Batch: YCT____ P.sub____ Artemia 0hr 139-07 24hr — 48hr 140-07 72hr — Artemia Lot# GSI-536-90

Feeding: (Prior to Test) (Prior to Renewal) Daily

Concentration	Replicate	Chamber #	Test Hour: 0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
ctrl	A	C1	5	5	5	5	5	5
	B	C2	5	5	5	5	5	5
	C	C3	5	5	5	5	5	5
	D	C4	5	5	5	5	5	5
100%	A	C5	5	5	5	5	5	5
	B	C6	5	5	5	5	5	5
	C	C7	5	5	5	5	5	5
	D	C8	5	5	5	5	5	5
Loaded/Verified by: JD / BA		Checked by:	JD	JD	JD	JD	JD	JD

m = missing d = dead BR/AR = Before/After Renewal

Comments:

Test Results:

Screening Tests: Report LC50 as >100%, =100%, or <100%.

% mortality in 100% sample: Ø LC50: >100%

If Calculated: 95% CI ____ Method ____

Substitue highest test concentration used if other than 100% (example: Ocean outfall tested at 30% concentration).

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FDEP Biology Laboratory - Bioassay Parameter Bench Sheet

LIMS Sample # : 1047965 Test #: 1 of 2

TEST SOP #: TA07_ 01 Test Species: (Ceriodaphnia dubia) Cyprinella leedsi Pimephales promelas Americamysis bahia Menidia beryllina Other:_____

Concentration Ctrl	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	M		M	M		M
pH (S.U.)	7.5		8.1	7.7		8.2
Temperature °C	24.0		24.0	24.0		24.0
Dissolved Oxygen mg/L	7.4		7.1	7.5		7.6
Conductivity (µmhos) mmhos	180		211	174		185
(initials) Measured by:	BA		BA	BA		JD
(initials) Recorded by:	BA		BA	BA		JD

Comments: M = material - MF 10-11-07

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	M		M	M		M
pH (S.U.)	7.9		8.5	7.8		8.5
Temperature °C	24.0		24.0	24.0		24.0
Dissolved Oxygen mg/L	7.8		7.2	8.0		7.7
Conductivity (µmhos) mmhos	641		654	608		648
(initials) Measured by:	BA		BA	BA		JD
(initials) Recorded by:	BA		BA	BA		JD

Comments:

Concentration	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate						
pH (S.U.)						
Temperature °C						
Dissolved Oxygen mg/L						
Conductivity µmhos mmhos						
(initials) Measured by:						
(initials) Recorded by:						

Comments:

Concentration	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate						
pH (S.U.)						
Temperature °C						
Dissolved Oxygen mg/L						
Conductivity µmhos mmhos						
(initials) Measured by:						
(initials) Recorded by:						

Comments:

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V 2.0 2/24/04

FDEP Biology Laboratory - Bioassay Parameter Bench Sheet

LIMS Sample # : 1047965 **Test #:** 2 of 2

TEST SOP #: TA07_ 02 **Test Species:** *Ceriodaphnia dubia* (*Cyprinella leedsi*) *Pimephales promelas* *Americamysis bahia* *Menidia beryllina* Other:_____

Concentration Ctrl	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	8.0	8.2	8.3	8.1	8.0	8.1
Temperature °C	24.0	25.1	24.5	24.3	24.3	24.0
Dissolved Oxygen mg/L	7.2	7.0	6.8	7.4	6.3	6.6
Conductivity (µmhos) mmhos	289	275	277	272	276	284
(initials) Measured by:	BA	JD	JD	JD	JD	JD
(initials) Recorded by:	BA	JD	JD	JD	JD	JD

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	8.0	8.2	8.3	8.1	8.1	8.1
Temperature °C	24.2	25.1	24.6	24.4	24.3	24.2
Dissolved Oxygen mg/L	7.4	7.1	6.8	7.4	6.3	6.6
Conductivity (µmhos) mmhos	636	627 ~~617~~	639	625	633	644
(initials) Measured by:	BA	JD	JD	JD	JD	JD
(initials) Recorded by:	BA	JD	JD	JD	JD	JD

Comments:

Concentration	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate						
pH (S.U.)						
Temperature °C						
Dissolved Oxygen mg/L						
Conductivity µmhos mmhos						
(initials) Measured by:						
(initials) Recorded by:						

Comments:

Concentration	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate						
pH (S.U.)						
Temperature °C						
Dissolved Oxygen mg/L						
Conductivity µmhos mmhos						
(initials) Measured by:						
(initials) Recorded by:						

Comments:

Appendix C. SRT Bench Sheets and Statistical Analysis

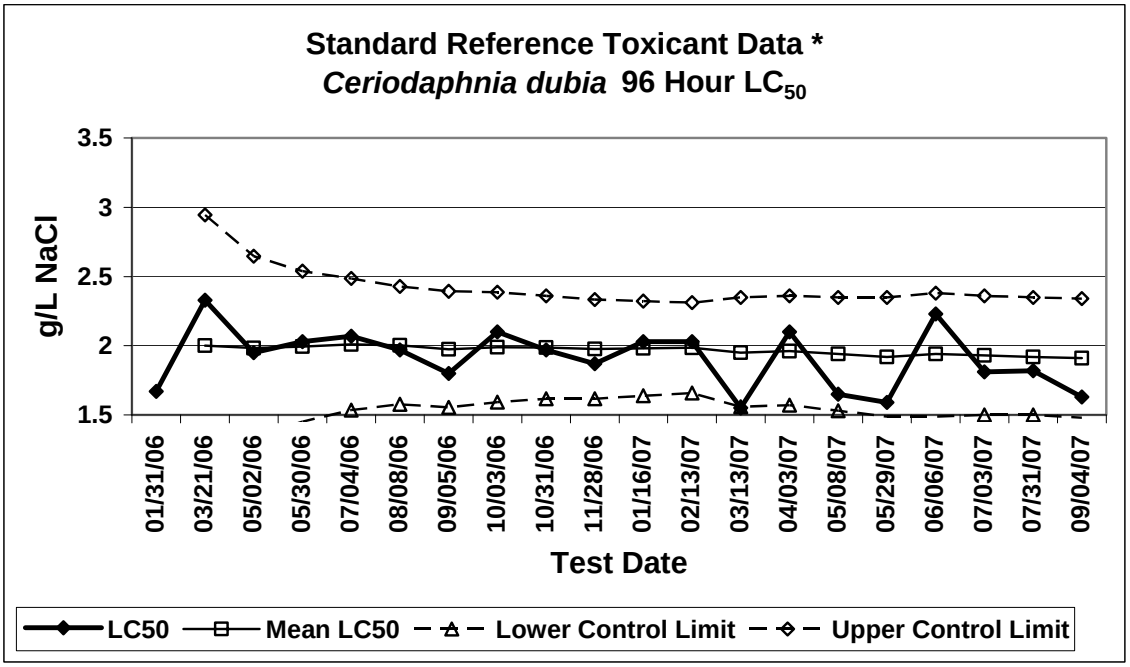
Florida Department of Environmental Protection
Bureau of Laboratories

Standard Reference Toxicant (SRT) Test Data - 96-hour Acute Toxicity
Ceriodaphnia dubia (water flea) - Sodium Chloride (NaCl)

Date	LC50	Mean LC50	Std Dev	Lower Control Limit	Upper Control Limit
01/31/06	1.67				
03/21/06	2.33	2.00	0.47	1.07	2.94
05/02/06	1.95	1.98	0.33	1.32	2.65
05/30/06	2.03	2.00	0.27	1.45	2.54
07/04/06	2.07	2.01	0.24	1.54	2.48
08/08/06	1.97	2.00	0.21	1.58	2.43
09/05/06	1.80	1.97	0.21	1.56	2.39
10/03/06	2.10	1.99	0.20	1.59	2.39
10/31/06	1.97	1.99	0.19	1.62	2.36
11/28/06	1.87	1.98	0.18	1.62	2.33
01/16/07	2.03	1.98	0.17	1.64	2.32
02/13/07	2.03	1.99	0.16	1.66	2.31
03/13/07	1.55	1.95	0.20	1.56	2.35
04/03/07	2.10	1.96	0.19	1.57	2.36
05/08/07	1.65	1.94	0.20	1.53	2.35
05/29/07	1.59	1.92	0.22	1.49	2.35
06/06/07	2.23	1.94	0.22	1.49	2.38
07/03/07	1.81	1.93	0.22	1.50	2.36
07/31/07	1.82	1.92	0.21	1.50	2.35
09/04/07	1.63	1.91	0.22	1.48	2.34

Lower Control Limit = mean - 2 * Std Dev
Upper Control Limit = mean + 2 * Std Dev

CV = 9.69
EPA reference 75th quartile CV = 29%



Appendix C. (continued)

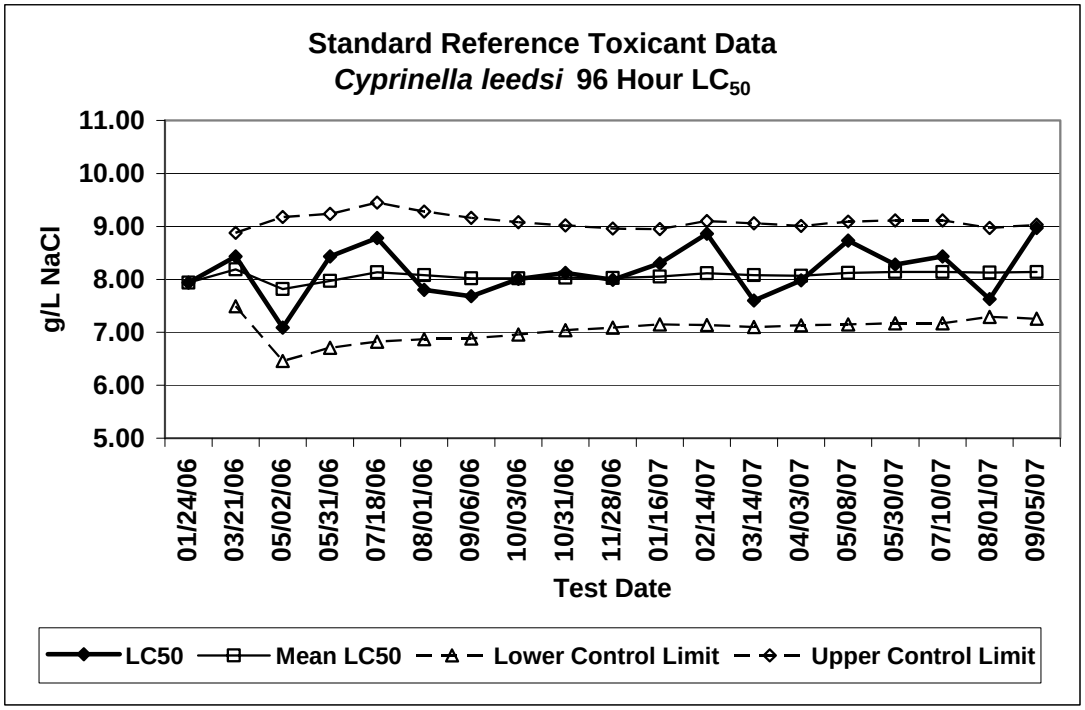
Florida Department of Environmental Protection
Bureau of Laboratories

Standard Reference Toxicant (SRT) Test Data - 96-hour Acute Toxicity
Cyprinella leedsi (bannerfin shiner) - Sodium Chloride (NaCl)

Date	LC50	Mean LC50	Std Dev	Lower Control Limit	Upper Control Limit
01/24/06	7.94	7.94			
03/21/06	8.43	8.19	0.35	7.49	8.88
05/02/06	7.09	7.82	0.68	6.46	9.18
05/31/06	8.43	7.97	0.63	6.71	9.24
07/18/06	8.78	8.13	0.66	6.82	9.45
08/01/06	7.80	8.08	0.60	6.87	9.28
09/06/06	7.68	8.02	0.57	6.88	9.16
10/03/06	8.01	8.02	0.53	6.96	9.08
10/31/06	8.12	8.03	0.49	7.04	9.02
11/28/06	7.99	8.03	0.49	7.09	8.96
01/16/07	8.30	8.05	0.45	7.15	8.95
02/14/07	8.86	8.12	0.49	7.14	9.10
03/14/07	7.60	8.08	0.49	7.10	9.06
04/03/07	7.98	8.07	0.47	7.13	9.01
05/08/07	8.73	8.12	0.48	7.15	9.09
05/30/07	8.28	8.14	0.48	7.17	9.11
07/10/07	8.43	8.14	0.48	7.17	9.11
08/01/07	7.63	8.13	0.42	7.29	8.97
09/05/07	8.97	8.14	0.44	7.26	9.03

Lower Confidence Limit = mean - 2 * Std Dev
Upper Confidence Limit = mean + 2 * Std Dev

CV = 5.45
EPA reference 75th quartile CV = 19%



* Fewer than 20 data points due to recent initiation of 96 hour SRT testing.

Appendix C. (continued)

FDEP Biology Laboratory - Acute SRT Bench Sheet

Test Organism: *Americamysis bahia* Method 2007.0 | *Menidia beryllina* Method 2006.0 | *Hyalella azteca* Method 100.1 EPA-600-R-99-064
Ceriodaphnia dubia Method 2002.0 | *Cyprinella leedsi* Method 2000.0 | *Pimephales promelas* Method 2000.0 | Other: _____

Method from EPA-821-R-02-012
Test Type: 48 hour non-renewal / (96) hour renewal
Test Page 1 of 2

Diluent/ Batch #: DMW / 8.24.07
Toxicant/ Batch#: NaCl ppt / 9.4.07

Test Beginning: Date: 9.4.07 Time: 1240
Test Ending: Date: 9.8.07 Time: 1030

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl_2 (mg/L):	<0.03	Hach	KMV
Alkalinity (mg/L as $CaCO_3$):	84	Hach	JD
Hardness (mg.L as $CaCO_3$):	88	Hach	JD
Total Ammonia (mg/L as N):	<0.07	Denver	MF
Salinity (ppth):	21	Mettler	DAS

Organism Batch #/ Age: C. dubia / 36-57 / < 24 hours
Feeding: ~~Prior to test~~ ~~Prior to renewal~~ Daily
Food: (YCT) YTC *R. subcapitata* Artemia: Lot # —
Food Batch: 7-28-07 4-4-07 0hr — 24hr — 48hr — 72hr —
Chamber size: 30 mL
Test volume: 20 mL per replicate

Conc. (g/L) µg/L mg/L	Rep.	Chamber #	Number Live 0 hr / ~~48 hr~~	24 hr / ~~72 hr~~	48 hr / ~~96 hr~~	pH (SU) 0 hr / ~~48 hr~~	24 hr / ~~72 hr~~	48 hr / ~~96 hr~~	Temperature (° C) 0 hr / ~~48 hr~~	24 hr / ~~72 hr~~	48 hr / ~~96 hr~~	D.O. (mg/L) 0 hr / ~~48 hr~~	24 hr / ~~72 hr~~	48 hr / ~~96 hr~~	Uncorrected Conductivity µmhom/cm (mmhos/cm) 0 hr / ~~48 hr~~	24 hr / ~~72 hr~~	48 hr / ~~96 hr~~
Control	A	A	5	5	5	7.6		7.9	24.5		24.6	7.2		7.4	0.179		0.196
	B	B	5	5	5												
	C	C	5	5	5												
	D	D	5	5	5												
1.5	A	A	5	5	5	7.7		7.9	24.7		24.1	7.2		7.3	2.87		3.11
	B	B	5	5	5												
	C	C	5	5	3 3D												
	D	D	5	5	5												
2.0	A	A	5	5	2 3D	7.8		8.0	24.8		24.1	7.1		7.2	3.79		4.24
	B	B	5	5	2 3D												
	C	C	5	5	4 1D												
	D	D	5	5	2 3D												
2.5	A	A	5	3 2D	0 3D	7.4		8.0	24.8		24.2	7.2		7.3	4.73		5.05
	B	B	5	4 1D	0 4D												
	C	C	5	1 4D	0 1D												
	D	D	5	4 1D	0 4D												
3.0	A	A	5	3 2D	0 3D	8.0		8.0	24.8		24.2	7.2		7.2	5.57		5.76
	B	B	5	4 1D	0 4D												
	C	C	1	5 0D	0 5D												
	D	D	5	2 3D	0 2D												
4.0	A	A	5	1 4D	0 1D	8.0		8.0	24.4		24.2	7.3		7.3	7.21		7.56
	B	B	5	1 4D	0 1D												
	C	C	5	0 5D	—												
	D	D	5	0 5D	—												
	A																
	B																
	C																
	D																
Loaded / measured by:			BA	BA	BA	BA		BA	BA		BA	BA		BA	BA		BA
Recorded by:			BA	BA	BA	BA		BA	BA		BA	BA		BA	BA		BA

Investigators' Signatures
James Smith
Brad Nelson
Mandall Faircloth
Loretta Wolfe
REVIEWER

Concentrations prepared by: BA
Loading verified by: JD
Light Intensity: 50-100 Ft. candles
Photoperiod: 16 hours Light / 8 hours dark
Temperature Range °C:
Incubator # 2 min 25.4 max 26.1 mean 25.9
Incubator # ___ min ___ max ___ mean ___
Room B246 min 24.5 max 26.7 mean 25.6

Comments:

Statistics: Method: Spearman-Karber
(48)/ 96 hour LC_{50}: 1.95
95% Confidence Interval: lower 1.81 upper 2.10

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Appendix C. (continued)

FDEP Biology Laboratory - Acute SRT Bench Sheet

Test Organism: *Americamysis bahia* Method 2007.0 / *Menidia beryllina* Method 2005.0 / *Hyalella azteca* Method 100.1 EPA-600-R-99-064
Ceriodaphnia dubia Method 2002.0 / *Cyprinella leedsi* Method 2000.0 / *Pimephales promelas* Method 2000.0 / Other: _____

Method from EPA-821-R-02-012
Test Type: 48 hour non-renewal / (96) hour renewal
Test Page 2 of 2

Diluent/ Batch #: DAW / 8.24.07
Toxicant/ Batch#: NaCl 4ppt / 9.4.07

Test Beginning: Date: 9.4.07 Time: 12:40
Test Ending: Date: 9-8-07 Time: 10:30

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl_2 (mg/L):	ZD03	Hach	KMW
Alkalinity (mg/L as $CaCO_3$):	87	Hach	GB
Hardness (mg.L as $CaCO_3$):	88	Hach	JD
Total Ammonia (mg/L as N):	20.07	Denver	MF
Salinity (ppth):	<1	Mettler	BA

Organism Batch #/ Age: E.dbs / 36.07 / <24 hrs
Feeding: Prior to test / Prior to renewal / Daily
Food: YCT / S.capricornutum / P.subcapitata Artemia: Lot # —
Food Batch: 7-24-07 4-4-07 0hr — 24hr — 48hr — 72hr —
Chamber size: 30 mL
Test volume: 20 mL per replicate

(B) 48 hours after renewal - 96 hours Parameters MF 10.4.07

Conc.			Number Live			pH (SU)			Temperature (° C)			D.O. (mg/L)			Uncorrected Conductivity (µmhom/cm / mmhos/cm)		
			~~0 hr~~	~~24 hr~~	~~48 hr~~	~~0 hr~~	~~24 hr~~	~~48 hr~~	~~0 hr~~	~~24 hr~~	~~48 hr~~	~~0 hr~~	~~24 hr~~	~~48 hr~~	~~0 hr~~	~~24 hr~~	~~48 hr~~
µg/L mg/L	Rep.	Chamber #	48 ~~48~~ hr	72 ~~72~~ hr	96 ~~96~~ hr	48 ~~48~~ hr	72 ~~72~~ hr	96 ~~96~~ hr	48 ~~48~~ hr	72 ~~72~~ hr	96 ~~96~~ hr	48 ~~48~~ hr	72 ~~72~~ hr	96 ~~96~~ hr	48 hr	72 hr	96 hr
Control	A	A	5	5	5	8.0		8.1	25.3		24.0	7.1		7.6	0.17		0.182
	B	B	5	5	4 1D												
	C	C	5	5	4 1D												
	D	D	5	5	5												
1.5	A	A	5	5	4 1D	8.0		8.0	24.9		24.2	7.3		7.6	2.187		2.92
	B	B	5	5	0 5D												
	C	C	3	3	2 1D												
	D	D	5	5	5												
2.0	A	A	2	2	0 2D	8.1		8.0	24.6		24.2	7.1		7.7	3.78		3.98
	B	B	2	2	BA 1D M												
	C	C	4	4	2 2D												
	D	D	2	1 1D	1												
2.5	A	A	—			—		—	—			—			—		
	B	B	—														
	C	C	—														
	D	D	—														
3.0	A	A	—			—		—	—			—			—		
	B	B	—														
	C	C	—														
	D	D	—														
4.0	A	A	—			—		—	—			—			—		
	B	B	—														
	C	C	—														
	D	D	—														
	A																
	B																
	C																
	D																
Loaded / measured by:			BA	JD	BA	BA		BA	BA		BA	BA		BA	BA		BA
Recorded by:			BA	JD	BA	BA		BA	BA		BA	BA		BA	BA		BA

Investigators' Signatures
James Daniels
Brent Hawkins
Kim Mirmiran
Marshall Faircloth
Loretta Colville
REVIEWER

Concentrations prepared by: BA
Loading verified by: JD
Light Intensity: 50-100 Ft. candles
Photoperiod: 16 hours Light / 8 hours dark
Temperature Range °C:
Incubator # 2 min 25.4 max 26.4 mean 25.9
Incubator # ___ min ___ max ___ mean ___
Room B246 min 24.5 max 26.7 mean 25.6

Comments: (A) 1st BA 9-8-07

Statistics: Method: Spearman-Karber
48 / (96) hour LC_{50}: 1.63
95% Confidence Interval: lower 1.54 upper 1.84

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Appendix C. (continued)

[redacted]

FDEP Biology Laboratory - Acute SRT Bench Sheet

Test Organism: *Americamysis bahia* Method 2007.0 | *Menidia beryllina* Method 2006.0 | *Hyalella azteca* Method 100.1 EPA-600-R-99-064
Ceriodaphnia dubia Method 2002.0 | *Cyprinella leedsi* Method 2000.0 | *Pimephales promelas* Method 2000.0 | Other: _____

Method from EPA-821-R-02-012
Test Type: 48 hour non-renewal / 96 hour renewal
Test Page 1 of 2

Diluent/ Batch #: well / 9.4.07
Toxicant/ Batch#: Rpt Nacl / 9.4.07

Test Beginning: Date: 9.5.07 Time: 1300
Test Ending: Date: 9-9-07 Time: 1100

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl_2 (mg/L):	2003	Hach	JD
Alkalinity (mg/L as $CaCO_3$):	145	Hach	JD 145
Hardness (mg.L as $CaCO_3$):	135	Hach	JD
Total Ammonia (mg/L as N):	<0.07	Denver	BA
Salinity (ppth):	21	Mettler	BA

Organism Batch #/ Age: 9-5-07 / 13 days
Feeding: (Prior to test) (Prior to renewal) Daily
Food: YCT P.subcapitata Artemia: Lot # GSL-536-90
Food Batch: — — 0hr 130 24hr — 48hr 132-07 72hr —
Chamber size: 1000 mL
Test volume: 500 mL per replicate

Conc.			Number Live			pH (SU)			Temperature (° C)			D.O. (mg/L)			Uncorrected Conductivity µmhom/cm (µmhos/cm)		
Ø µg/L mg/L	Rep.	Chamber #	0 hr ~~48 hr~~	24 hr ~~72 hr~~	48 hr ~~96 hr~~	0 hr ~~48 hr~~	24 hr ~~72 hr~~	48 hr ~~96 hr~~	0 hr ~~48 hr~~	24 hr ~~72 hr~~	48 hr ~~96 hr~~	0 hr ~~48 hr~~	24 hr ~~72 hr~~	48 hr ~~96 hr~~	0 hr ~~48 hr~~	24 hr ~~72 hr~~	48 hr ~~96 hr~~
Control	A	A1	10	10	10	7.8		8.3	24.9		24.3	7.8		6.4	0.273		0.290
	B	A2	10	10	10		8.2			24.5			6.8			0.277	
	C																
	D																
6	A	A3	10	10	10	7.7		8.2	24.4		24.4	7.4		6.4	10.17		10.5
	B	A4	10	10	10		8.1			24.3			6.6			10.1	
	C																
	D																
7	A	A5	10	9/10	9	7.8		8.2	24.4		24.4	7.4		6.8	12.11		12.3
	B	A6	10	10	10		8.1			24.2			6.6			12.2	
	C																
	D																
8	A	A7	10	10	10	7.8		8.2	24.8		24.4	7.3		6.8	13.6		13.7
	B	A8	10	10	9/10		8.1			24.3			6.6			13.6	
	C																
	D																
9	A	A9	10	8/10	7/10	7.9		8.2	24.1		24.4	7.3		6.8	14.45		14.8
	B	A10	10	7/10	4/10		8.1			24.1			6.6			14.9	
	C																
	D																
10	A	A11	10	2/10	0/10	7.9		8.2	24.7		24.4	7.3		6.8	16.2		16.3
	B	A12	10	4/10	3/10		8.1			24.1			6.6			16.7	
	C																
	D																
	A																
	B																
	C																
	D																
Loaded / measured by:			JD	JD	JD	BA	JD	JD	BA	JD	JD	BA	JD	JD	BA	JD	JD
Recorded by:			JD	JD	JD	BA	JD	JD	BA	JD	~~JD~~	BA	JD	JD	BA	JD	JD

Investigators' Signatures
Jonathan Daniels
Brian Rhodes
Marshall Faircloth
Loretta C. Wolfe
REVIEWER

Concentrations prepared by: BA
Loading verified by: BA
Light Intensity: 50-100 Ft. candles
Photoperiod: 16 hours Light / 8 hours dark
Temperature Range °C:
Incubator # 3 min 25.4 max 26.1 mean 25.9
Incubator # ___ min ___ max ___ mean ___
Room B248 min 24.5 max 26.4 mean 25.4

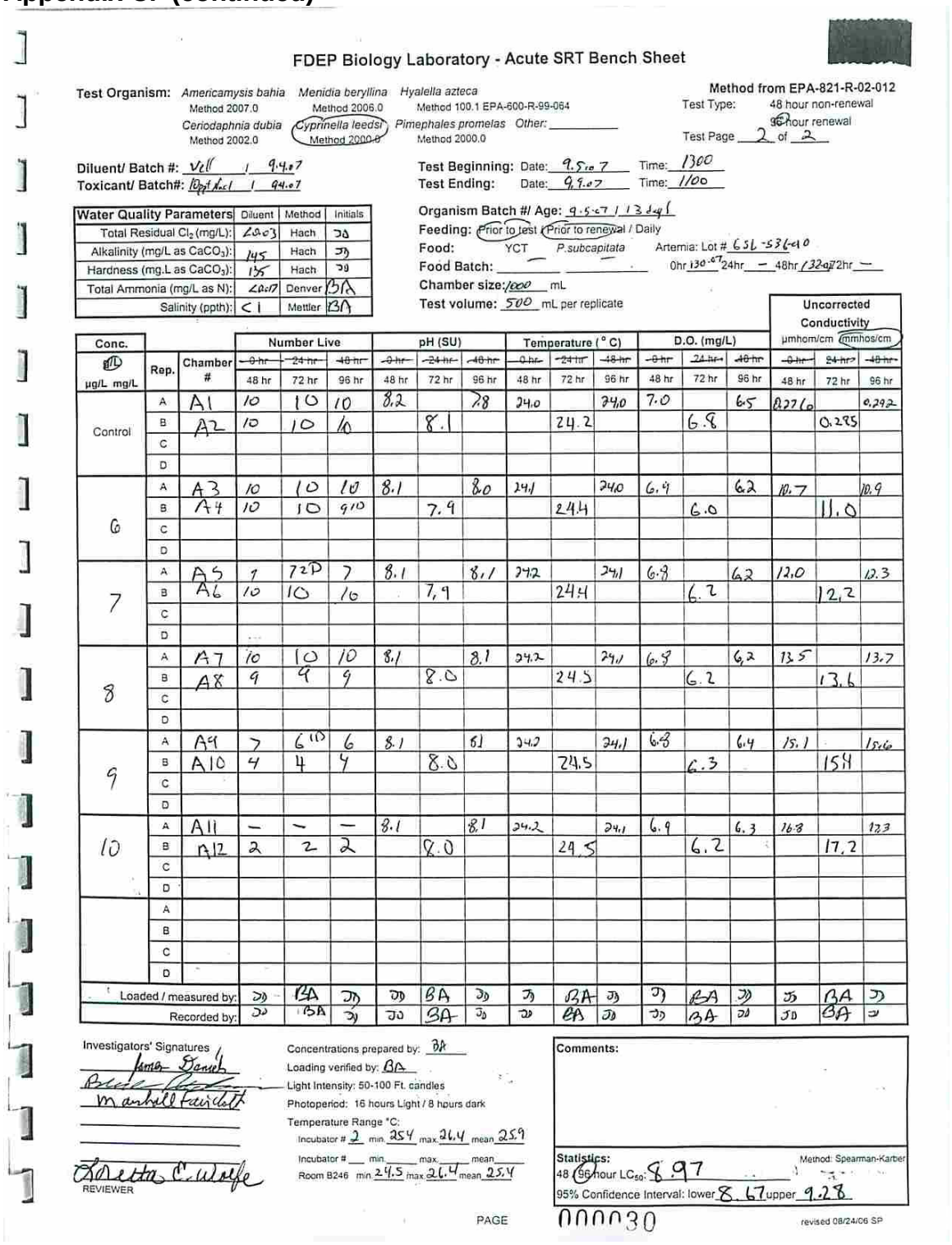
Comments:

Statistics: (48) / 96 hour LC_{50}: 9.10 9.06 Method: Spearman-Karber BA 9.37
95% Confidence Interval: lower 8.75 8.77 upper 9.46

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Appendix C. (continued)



FDEP Biology Laboratory - Acute SRT Bench Sheet

Test Organism: *Americamysis bahia* Method 2007.0; *Menidia beryllina* Method 2006.0; *Hyalella azteca* Method 100.1 EPA-600-R-99-064; *Ceriodaphnia dubia* Method 2002.0; *Cyprinella leedsi* Method 2000.0; *Pimephales promelas* Method 2000.0; Other: _____

Method from EPA-821-R-02-012
Test Type: 48 hour non-renewal / 96 hour renewal
Test Page 2 of 2

Diluent/ Batch #: Well / 9.4.07
Toxicant/ Batch#: 10ppt KCl / 9.4.07

Test Beginning: Date: 9.5.07 Time: 1300
Test Ending: Date: 9.9.07 Time: 1100

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl_2 (mg/L):	2003	Hach	JD
Alkalinity (mg/L as $CaCO_3$):	145	Hach	JD
Hardness (mg.L as $CaCO_3$):	135	Hach	JD
Total Ammonia (mg/L as N):	<0.07	Denver	BA
Salinity (ppth):	<1	Mettler	BA

Organism Batch #/ Age: 9.5.07 / 1 to 4 d
Feeding: Prior to test / Prior to renewal / Daily
Food: YCT P.subcapitata Artemia: Lot # 651-536-610
Food Batch: _____ _____ 0hr 130.07 24hr — 48hr 132.07 72hr —
Chamber size: 1000 mL
Test volume: 500 mL per replicate

Conc. µg/L mg/L	Rep.	Chamber #	Number Live 0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr	pH (SU) 0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr	Temperature (°C) 0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr	D.O. (mg/L) 0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr	Uncorrected Conductivity µmhom/cm (mmhos/cm) 0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr
Control	A	A1	10	10	10	8.2		7.8	24.0		24.0	7.0		6.5	0.276		0.292
	B	A2	10	10	10		8.1			24.2			6.8			0.285	
	C																
	D																
6	A	A3	10	10	10	8.1		8.0	24.1		24.0	6.9		6.2	10.7		10.9
	B	A4	10	10	9/10		7.9			24.4			6.0			11.0	
	C																
	D																
7	A	A5	7	7 2D	7	8.1		8.1	24.2		24.1	6.9		6.2	12.0		12.3
	B	A6	10	10	10		7.9			24.4			6.2			12.2	
	C																
	D																
8	A	A7	10	10	10	8.1		8.1	24.2		24.1	6.9		6.2	13.5		13.7
	B	A8	9	9	9		8.0			24.5			6.2			13.6	
	C																
	D																
9	A	A9	7	6 10	6	8.1		8.1	24.2		24.1	6.8		6.4	15.1		15.6
	B	A10	4	4	4		8.0			24.5			6.3			15.4	
	C																
	D																
10	A	A11	—	—	—	8.1		8.1	24.2		24.1	6.9		6.3	16.8		17.3
	B	A12	2	2	2		8.0			24.5			6.2			17.2	
	C																
	D																
	A																
	B																
	C																
	D																
Loaded / measured by:			JD	BA	JD	JD	BA	JD	JD	BA	JD	JD	BA	JD	JD	BA	JD
Recorded by:			JD	BA	JD	JD	BA	JD	JD	BA	JD	JD	BA	JD	JD	BA	JD

Investigators' Signatures
James Blanch
Brian Roberts
Marshall Faircloth
Loretta C. Wolfe
REVIEWER

Concentrations prepared by: BA
Loading verified by: BA
Light Intensity: 50-100 Ft. candles
Photoperiod: 16 hours Light / 8 hours dark
Temperature Range °C:
Incubator # 2 min 25.4 max 26.4 mean 25.9
Incubator # ___ min ___ max ___ mean ___
Room B246 min 24.5 max 26.4 mean 25.4

Comments:

Statistics: Method: Spearman-Karber
48 (96) hour LC_{50}: 8.97
95% Confidence Interval: lower 8.67 upper 9.28

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Appendix C. (continued)

DATE: 9-4-07 TEST NUMBER: 1 DURATION: 96 h
TOXICANT : NaCl
SPECIES: *Ceriodaphnia dubia*

RAW DATA: Concentration (g/L)	Number Exposed	Mortalities
.00	20	2
1.50	20	9
2.00	20	16
2.50	20	20
3.00	20	20
4.00	20	20

SPEARMAN-KARBER TRIM: 38.89%

SPEARMAN-KARBER ESTIMATES: LC50: 1.63
95% LOWER CONFIDENCE: 1.44
95% UPPER CONFIDENCE: 1.84

NOTE: MORTALITY PROPORTIONS WERE NOT MONOTONICALLY INCREASING. ADJUSTMENTS WERE MADE PRIOR TO SPEARMAN-KARBER ESTIMATION.

DATE: 9-5-07 TEST NUMBER: 1 DURATION: 96 h
TOXICANT : NaCl
SPECIES: *Cyprinella leedsi*

RAW DATA: Concentration (g/L)	Number Exposed	Mortalities
.00	20	0
6.00	20	1
7.00	20	3
8.00	20	1
9.00	20	10
10.00	20	18

SPEARMAN-KARBER TRIM: 10.00%

SPEARMAN-KARBER ESTIMATES: LC50: 8.97
95% LOWER CONFIDENCE: 8.67
95% UPPER CONFIDENCE: 9.28

NOTE: MORTALITY PROPORTIONS WERE NOT MONOTONICALLY INCREASING. ADJUSTMENTS WERE MADE PRIOR TO SPEARMAN-KARBER ESTIMATION.

Appendix D. Test Organism Receipts

MBL Aquaculture
4569 Samuel Street
Sarasota, Florida 34233
TEL: (800) 889-0384
FAX: (941) 922-3874
EMAIL: sales@mblaquaculture.com
WEB: www.MBLAquaculture.com

NELAC Accredited

Organism Shipment Record

State of Florida Aquaculture Certificate Number AQ0668007

Date: 9/4/07

Shipped to: FDEP

P.O. No: N/A

Species	Quantity	Age	Brood Number	Temperature	Salinity
Mysidopsis bahia	150	4 DAYS	MS070831	25°C	20‰
Menidia beryllina	150	11 DAYS	MS070824	25°C	20‰
Cyprinella leedsi	150	12 DAYS	CL070823	25°C	
Pimephales promelas	150	8 DAYS	FM070827	25°C	

Packed by: R.L.

Shipped Via: FedEx

Notes:

Thank you for your order.

Appendix D. (continued)

MBL Aquaculture
4569 Samuel Street
Sarasota, Florida 34233
TEL: (800) 889-0384
FAX: (941) 922-3874
EMAIL: sales@mblaquaculture.com
WEB: www.MBLAquaculture.com

NELAC Accredited

Organism Shipment Record

State of Florida Aquaculture Certificate Number AQ0668007

Date: 9/24/07

Shipped to: FDEP

P.O. No: N/A

Species	Quantity	Age	Brood Number	Temperature	Salinity
Mysidopsis bahia					
Menidia beryllina					
Cyprinella leedsi	200	10 DAYS	CL070914	25°C	
Pimephales promelas					

Packed by: AJ

Shipped Via: FedEx

Notes: _____

Thank you for your order.

Appendix E. Chemical Analyses performed on the effluent from the Millennium Specialty Chemical facility Outfall D-001, sampled on September 24, 2007.

Date Sampled	Sample ID	Analysis	Component	Result	Remark	Units	MDL	PQL
9/24/2007 11:20	Effluent	AGP/LN	Algal Growth Potential	9.43	A	mg DryWt/L	0.3	0.9
9/24/2007 11:20	Effluent	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	2.5		ug/L	0.55	1.7
9/24/2007 11:20	Effluent	Chlorophyll/Grain Size/BOD	Phaeophytin-a	3		ug/L	0.24	0.71
9/24/2007 11:20	Effluent	Toxicology	Bioassay-Acute-Screen-FW-C.dubia, LC50	100	L	LC50		
9/24/2007 11:20	Effluent	Toxicology	Bioassay-Acute-Screen-FW-Fish, LC50	100	L	LC50		
9/24/2007 11:20	Effluent	Metals	Aluminum	60	U	ug/L	60	240
9/24/2007 11:20	Effluent	Metals	Calcium	42.5		mg/L	0.02	0.08
9/24/2007 11:20	Effluent	Metals	Iron	210		ug/L	30	120
9/24/2007 11:20	Effluent	Metals	Magnesium	15.6		mg/L	0.04	0.16
9/24/2007 11:20	Effluent	Metals	Arsenic	0.5	U	ug/L	0.5	2
9/24/2007 11:20	Effluent	Metals	Cadmium	0.02	U	ug/L	0.02	0.08
9/24/2007 11:20	Effluent	Metals	Chromium	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Metals	Copper	1.78		ug/L	0.25	1
9/24/2007 11:20	Effluent	Metals	Lead	0.31	I	ug/L	0.2	0.8
9/24/2007 11:20	Effluent	Metals	Nickel	5.32		ug/L	0.25	1
9/24/2007 11:20	Effluent	Metals	Selenium	0.5	U	ug/L	0.5	2
9/24/2007 11:20	Effluent	Metals	Silver	0.025	U	ug/L	0.025	0.1
9/24/2007 11:20	Effluent	Metals	Zinc	14	I	ug/L	5	20
9/24/2007 11:20	Effluent	Nutrients	Ammonia-N	0.011	I	mg N/L	0.01	0.02
9/24/2007 11:20	Effluent	Nutrients	NO2NO3-N	0.057		mg N/L	0.004	0.01
9/24/2007 11:20	Effluent	Nutrients	O-Phosphate-P	0.015		mg P/L	0.004	0.01
9/24/2007 11:20	Effluent	Nutrients	Kjeldahl Nitrogen	0.35		mg N/L	0.08	0.2
9/24/2007 11:20	Effluent	Nutrients	Total-P	0.11		mg P/L	0.02	0.06
9/24/2007 11:20	Effluent	Overflow	Oil and Grease	1.7	U	mg/L		
9/24/2007 11:20	Effluent	Pesticides	Alachlor	0.6	U	ug/L	0.6	2.4
9/24/2007 11:20	Effluent	Pesticides	Ametryn	0.05	U	ug/L	0.05	0.2
9/24/2007 11:20	Effluent	Pesticides	Atrazine	0.05	U	ug/L	0.05	0.2
9/24/2007 11:20	Effluent	Pesticides	Azinphos Methyl	0.2	U	ug/L	0.2	0.8
9/24/2007 11:20	Effluent	Pesticides	Bromacil	0.2	U	ug/L	0.2	0.8
9/24/2007 11:20	Effluent	Pesticides	Butylate	0.2	U	ug/L	0.2	0.8
9/24/2007 11:20	Effluent	Pesticides	Chlorpyrifos Ethyl	0.05	U	ug/L	0.05	0.2
9/24/2007 11:20	Effluent	Pesticides	Chlorpyrifos Methyl	0.1	U	ug/L	0.1	0.4
9/24/2007 11:20	Effluent	Pesticides	Diazinon	0.05	U	ug/L	0.05	0.2
9/24/2007 11:20	Effluent	Pesticides	Ethion	0.05	U	ug/L	0.05	0.2

Appendix E. (continued)

Date Sampled	Sample ID	Analysis	Component	Result	Remark	Units	MDL	PQL
9/24/2007 11:20	Effluent	Pesticides	Ethoprop	0.1	U	ug/L	0.1	0.4
9/24/2007 11:20	Effluent	Pesticides	Fenamiphos	0.2	U	ug/L	0.2	0.8
9/24/2007 11:20	Effluent	Pesticides	Fonofos	0.1	U	ug/L	0.1	0.4
9/24/2007 11:20	Effluent	Pesticides	Hexazinone	0.1	U	ug/L	0.1	0.4
9/24/2007 11:20	Effluent	Pesticides	Malathion	0.15	U	ug/L	0.15	0.6
9/24/2007 11:20	Effluent	Pesticides	Metalaxyl	0.25	U	ug/L	0.25	1
9/24/2007 11:20	Effluent	Pesticides	Metolachlor	0.5	U	ug/L	0.5	2
9/24/2007 11:20	Effluent	Pesticides	Metribuzin	0.1	U	ug/L	0.1	0.4
9/24/2007 11:20	Effluent	Pesticides	Mevinphos	0.2	U	ug/L	0.2	0.8
9/24/2007 11:20	Effluent	Pesticides	Naled	0.8	U	ug/L	0.8	3.2
9/24/2007 11:20	Effluent	Pesticides	Norflurazon	0.15	U	ug/L	0.15	0.6
9/24/2007 11:20	Effluent	Pesticides	Parathion Ethyl	0.15	U	ug/L	0.15	0.6
9/24/2007 11:20	Effluent	Pesticides	Parathion Methyl	0.1	U	ug/L	0.1	0.4
9/24/2007 11:20	Effluent	Pesticides	Phorate	0.05	U	ug/L	0.05	0.2
9/24/2007 11:20	Effluent	Pesticides	Prometryn	0.15	U	ug/L	0.15	0.6
9/24/2007 11:20	Effluent	Pesticides	Simazine	0.05	U	ug/L	0.05	0.2
9/24/2007 11:20	Effluent	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	2,4,6-Trichlorophenol	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	2,4-Dichlorophenol	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	2,4-Dimethylphenol	10	U	ug/L	10	40
9/24/2007 11:20	Effluent	Priority Organic Pollutants	2,4-Dinitrophenol	15	U	ug/L	15	61
9/24/2007 11:20	Effluent	Priority Organic Pollutants	2,4-Dinitrotoluene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	2,6-Dinitrotoluene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	2-Chloronaphthalene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	2-Chlorophenol	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3	U	ug/L	3	12
9/24/2007 11:20	Effluent	Priority Organic Pollutants	2-Nitrophenol	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	3,3'-Dichlorobenzidine	40	U	ug/L	40	160
9/24/2007 11:20	Effluent	Priority Organic Pollutants	4,4'-DDD	1.5	U	ug/L	1.5	6.1
9/24/2007 11:20	Effluent	Priority Organic Pollutants	4,4'-DDE	1.5	U	ug/L	1.5	6.1
9/24/2007 11:20	Effluent	Priority Organic Pollutants	4,4'-DDT	1.5	U	ug/L	1.5	6.1
9/24/2007 11:20	Effluent	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	4-Chloro-3-methylphenol	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2	U	ug/L	2	8.1

Appendix E. (continued)

Date Sampled	Sample ID	Analysis	Component	Result	Remark	Units	MDL	PQL
9/24/2007 11:20	Effluent	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	61
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Acenaphthene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Acenaphthylene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Aldrin	1.5	U	ug/L	1.5	6.1
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Anthracene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Benzidine	100	U	ug/L	100	400
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Benzo(a)anthracene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Benzo(a)pyrene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Benzo(b)fluoranthene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Benzo(g,h,i)perylene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Benzo(k)fluoranthene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3	U	ug/L	3	12
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	15	U	ug/L	15	61
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Butyl benzyl phthalate	5.1	U	ug/L	5.1	20
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Chrysene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Di-n-butyl phthalate	5.1	U	ug/L	5.1	20
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Di-n-octyl phthalate	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Dibenzo(a,h)anthracene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Dieldrin	1.5	U	ug/L	1.5	6.1
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Diethyl phthalate	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Dimethyl phthalate	51	U	ug/L	51	200
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Endosulfan I	4	U	ug/L	4	16
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Endosulfan II	4	U	ug/L	4	16
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Endosulfan sulfate	1.5	U	ug/L	1.5	6.1
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Endrin	1.5	UJ	ug/L	1.5	6.1
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Endrin aldehyde	4	U	ug/L	4	16
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Fluoranthene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Fluorene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Heptachlor	1.5	U	ug/L	1.5	6.1
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Heptachlor epoxide	1.5	U	ug/L	1.5	6.1
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Hexachlorobenzene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Hexachlorobutadiene	3	U	ug/L	3	12

Appendix E. (continued)

Date Sampled	Sample ID	Analysis	Component	Result	Remark	Units	MDL	PQL
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Hexachlorocyclopentadiene	3	U	ug/L	3	12
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Hexachloroethane	3	U	ug/L	3	12
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Isophorone	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2	U	ug/L	2	8.1
9/24/2007 11:20	Effluent	Priority Organic Pollutants	N-Nitrosodimethylamine	2	U	ug/L	2	8.1
9/24/2007 11:20	Effluent	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3	U	ug/L	3	12
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Naphthalene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Nitrobenzene	2	U	ug/L	2	8.1
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Pentachlorophenol	3	UJ	ug/L	3	12
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Phenanthrene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Phenol	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	Pyrene	1	U	ug/L	1	4
9/24/2007 11:20	Effluent	Priority Organic Pollutants	alpha-BHC	1.5	U	ug/L	1.5	6.1
9/24/2007 11:20	Effluent	Priority Organic Pollutants	beta-BHC	1.5	U	ug/L	1.5	6.1
9/24/2007 11:20	Effluent	Priority Organic Pollutants	delta-BHC	1.5	U	ug/L	1.5	6.1
9/24/2007 11:20	Effluent	Priority Organic Pollutants	gamma-BHC	1.5	U	ug/L	1.5	6.1
9/24/2007 11:20	Effluent	Field Parameters	Dissolved Oxygen	7.11		mg/L		
9/24/2007 11:20	Effluent	Field Parameters	Sample Depth	0.2		m		
9/24/2007 11:20	Effluent	Field Parameters	Specific Conductance	585		umhos/cm		
9/24/2007 11:20	Effluent	Field Parameters	Temperature	31.52		C		
9/24/2007 11:20	Effluent	Field Parameters	pH	7.45				
9/24/2007 11:40	Blank	Metals	Aluminum	60	U	ug/L	60	240
9/24/2007 11:40	Blank	Metals	Calcium	0.02	U	mg/L	0.02	0.08
9/24/2007 11:40	Blank	Metals	Iron	30	U	ug/L	30	120
9/24/2007 11:40	Blank	Metals	Magnesium	0.04	U	mg/L	0.04	0.16
9/24/2007 11:40	Blank	Metals	Arsenic	0.5	U	ug/L	0.5	2
9/24/2007 11:40	Blank	Metals	Cadmium	0.02	U	ug/L	0.02	0.08
9/24/2007 11:40	Blank	Metals	Chromium	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Metals	Copper	0.25	U	ug/L	0.25	1
9/24/2007 11:40	Blank	Metals	Lead	0.2	U	ug/L	0.2	0.8
9/24/2007 11:40	Blank	Metals	Nickel	0.25	U	ug/L	0.25	1
9/24/2007 11:40	Blank	Metals	Selenium	0.5	U	ug/L	0.5	2
9/24/2007 11:40	Blank	Metals	Silver	0.025	U	ug/L	0.025	0.1

Appendix E. (continued)

Date Sampled	Sample ID	Analysis	Component	Result	Remark	Units	MDL	PQL
9/24/2007 11:40	Blank	Metals	Zinc	5	U	ug/L	5	20
9/24/2007 11:40	Blank	Nutrients	Ammonia-N	0.01	U	mg N/L	0.01	0.02
9/24/2007 11:40	Blank	Nutrients	NO2NO3-N	0.004	U	mg N/L	0.004	0.01
9/24/2007 11:40	Blank	Nutrients	O-Phosphate-P	0.004	U	mg P/L	0.004	0.01
9/24/2007 11:40	Blank	Nutrients	Kjeldahl Nitrogen	0.08	U	mg N/L	0.08	0.2
9/24/2007 11:40	Blank	Nutrients	Total-P	0.02	U	mg P/L	0.02	0.06
9/24/2007 11:40	Blank	Overflow	Oil and Grease	1.7	U	mg/L		
9/24/2007 11:40	Blank	Pesticides	Alachlor	0.62	U	ug/L	0.62	2.5
9/24/2007 11:40	Blank	Pesticides	Ametryn	0.052	U	ug/L	0.052	0.21
9/24/2007 11:40	Blank	Pesticides	Atrazine	0.052	U	ug/L	0.052	0.21
9/24/2007 11:40	Blank	Pesticides	Azinphos Methyl	0.21	U	ug/L	0.21	0.84
9/24/2007 11:40	Blank	Pesticides	Bromacil	0.21	U	ug/L	0.21	0.84
9/24/2007 11:40	Blank	Pesticides	Butylate	0.21	U	ug/L	0.21	0.84
9/24/2007 11:40	Blank	Pesticides	Chlorpyrifos Ethyl	0.052	U	ug/L	0.052	0.21
9/24/2007 11:40	Blank	Pesticides	Chlorpyrifos Methyl	0.1	U	ug/L	0.1	0.4
9/24/2007 11:40	Blank	Pesticides	Diazinon	0.052	U	ug/L	0.052	0.21
9/24/2007 11:40	Blank	Pesticides	Ethion	0.052	U	ug/L	0.052	0.21
9/24/2007 11:40	Blank	Pesticides	Ethoprop	0.1	U	ug/L	0.1	0.4
9/24/2007 11:40	Blank	Pesticides	Fenamiphos	0.21	U	ug/L	0.21	0.84
9/24/2007 11:40	Blank	Pesticides	Fonofos	0.1	U	ug/L	0.1	0.4
9/24/2007 11:40	Blank	Pesticides	Hexazinone	0.1	U	ug/L	0.1	0.4
9/24/2007 11:40	Blank	Pesticides	Malathion	0.16	U	ug/L	0.16	0.64
9/24/2007 11:40	Blank	Pesticides	Metalaxyl	0.26	U	ug/L	0.26	1
9/24/2007 11:40	Blank	Pesticides	Metolachlor	0.52	U	ug/L	0.52	2.1
9/24/2007 11:40	Blank	Pesticides	Metribuzin	0.1	U	ug/L	0.1	0.4
9/24/2007 11:40	Blank	Pesticides	Mevinphos	0.21	U	ug/L	0.21	0.84
9/24/2007 11:40	Blank	Pesticides	Naled	0.83	U	ug/L	0.83	3.3
9/24/2007 11:40	Blank	Pesticides	Norflurazon	0.16	U	ug/L	0.16	0.64
9/24/2007 11:40	Blank	Pesticides	Parathion Ethyl	0.16	U	ug/L	0.16	0.64
9/24/2007 11:40	Blank	Pesticides	Parathion Methyl	0.1	U	ug/L	0.1	0.4
9/24/2007 11:40	Blank	Pesticides	Phorate	0.052	U	ug/L	0.052	0.21
9/24/2007 11:40	Blank	Pesticides	Prometryn	0.16	U	ug/L	0.16	0.64
9/24/2007 11:40	Blank	Pesticides	Simazine	0.052	U	ug/L	0.052	0.21
9/24/2007 11:40	Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1	U	ug/L	1	4

Appendix E. (continued)

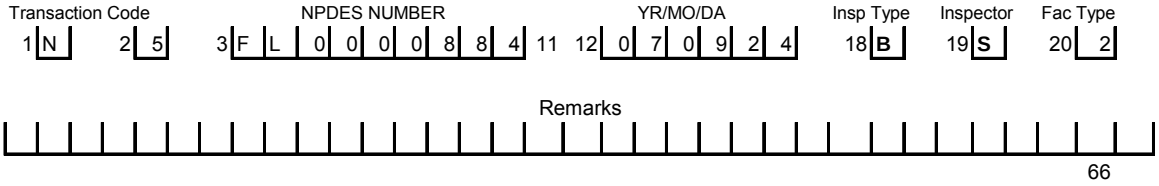
Date Sampled	Sample ID	Analysis	Component	Result	Remark	Units	MDL	PQL
9/24/2007 11:40	Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	2,4-Dichlorophenol	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	2,4-Dimethylphenol	10	U	ug/L	10	40
9/24/2007 11:40	Blank	Priority Organic Pollutants	2,4-Dinitrophenol	15	U	ug/L	15	61
9/24/2007 11:40	Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	2-Chloronaphthalene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	2-Chlorophenol	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3	U	ug/L	3	12
9/24/2007 11:40	Blank	Priority Organic Pollutants	2-Nitrophenol	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	40	U	ug/L	40	160
9/24/2007 11:40	Blank	Priority Organic Pollutants	4,4'-DDD	1.5	U	ug/L	1.5	6.1
9/24/2007 11:40	Blank	Priority Organic Pollutants	4,4'-DDE	1.5	U	ug/L	1.5	6.1
9/24/2007 11:40	Blank	Priority Organic Pollutants	4,4'-DDT	1.5	U	ug/L	1.5	6.1
9/24/2007 11:40	Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2	U	ug/L	2	8.1
9/24/2007 11:40	Blank	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	61
9/24/2007 11:40	Blank	Priority Organic Pollutants	Acenaphthene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Acenaphthylene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Aldrin	1.5	U	ug/L	1.5	6.1
9/24/2007 11:40	Blank	Priority Organic Pollutants	Anthracene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Benzidine	100	U	ug/L	100	400
9/24/2007 11:40	Blank	Priority Organic Pollutants	Benzo(a)anthracene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Benzo(a)pyrene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3	U	ug/L	3	12
9/24/2007 11:40	Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	15	U	ug/L	15	61
9/24/2007 11:40	Blank	Priority Organic Pollutants	Butyl benzyl phthalate	5.1	U	ug/L	5.1	20
9/24/2007 11:40	Blank	Priority Organic Pollutants	Chrysene	1	U	ug/L	1	4

Appendix E. (continued)

Date Sampled	Sample ID	Analysis	Component	Result	Remark	Units	MDL	PQL
9/24/2007 11:40	Blank	Priority Organic Pollutants	Di-n-butyl phthalate	5.1	U	ug/L	5.1	20
9/24/2007 11:40	Blank	Priority Organic Pollutants	Di-n-octyl phthalate	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Dieldrin	1.5	U	ug/L	1.5	6.1
9/24/2007 11:40	Blank	Priority Organic Pollutants	Diethyl phthalate	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Dimethyl phthalate	51	U	ug/L	51	200
9/24/2007 11:40	Blank	Priority Organic Pollutants	Endosulfan I	4	U	ug/L	4	16
9/24/2007 11:40	Blank	Priority Organic Pollutants	Endosulfan II	4	U	ug/L	4	16
9/24/2007 11:40	Blank	Priority Organic Pollutants	Endosulfan sulfate	1.5	U	ug/L	1.5	6.1
9/24/2007 11:40	Blank	Priority Organic Pollutants	Endrin	1.5	UJ	ug/L	1.5	6.1
9/24/2007 11:40	Blank	Priority Organic Pollutants	Endrin aldehyde	4	U	ug/L	4	16
9/24/2007 11:40	Blank	Priority Organic Pollutants	Fluoranthene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Fluorene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Heptachlor	1.5	U	ug/L	1.5	6.1
9/24/2007 11:40	Blank	Priority Organic Pollutants	Heptachlor epoxide	1.5	U	ug/L	1.5	6.1
9/24/2007 11:40	Blank	Priority Organic Pollutants	Hexachlorobenzene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Hexachlorobutadiene	3	U	ug/L	3	12
9/24/2007 11:40	Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	3	U	ug/L	3	12
9/24/2007 11:40	Blank	Priority Organic Pollutants	Hexachloroethane	3	U	ug/L	3	12
9/24/2007 11:40	Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Isophorone	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2	U	ug/L	2	8.1
9/24/2007 11:40	Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2	U	ug/L	2	8.1
9/24/2007 11:40	Blank	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3	U	ug/L	3	12
9/24/2007 11:40	Blank	Priority Organic Pollutants	Naphthalene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Nitrobenzene	2	U	ug/L	2	8.1
9/24/2007 11:40	Blank	Priority Organic Pollutants	Pentachlorophenol	3	UJ	ug/L	3	12
9/24/2007 11:40	Blank	Priority Organic Pollutants	Phenanthrene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Phenol	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	Pyrene	1	U	ug/L	1	4
9/24/2007 11:40	Blank	Priority Organic Pollutants	alpha-BHC	1.5	U	ug/L	1.5	6.1
9/24/2007 11:40	Blank	Priority Organic Pollutants	beta-BHC	1.5	U	ug/L	1.5	6.1
9/24/2007 11:40	Blank	Priority Organic Pollutants	delta-BHC	1.5	U	ug/L	1.5	6.1
9/24/2007 11:40	Blank	Priority Organic Pollutants	gamma-BHC	1.5	U	ug/L	1.5	6.1

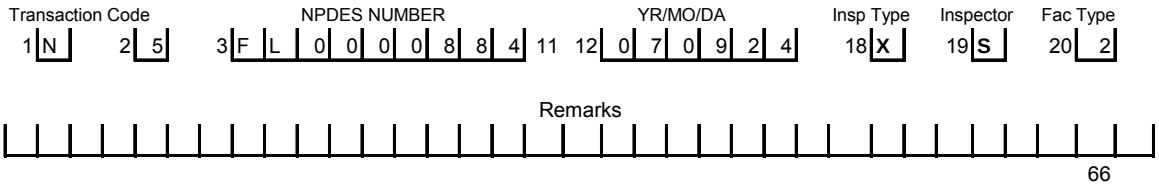
The Bioassay of the Millennium Speciality Chemical effluent sampled on September 24, 2007. NPDES #FL0000884.

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)



The Priority Pollutants Analysis of the Millennium Speciality Chemical effluent sampled on September 24, 2007. NPDES #FL0000884.

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)



Biological Analyses of the Millennium Speciality Chemical effluent sampled on September 24, 2007. NPDES #FL0000884.

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

