

Effluent Quality Assessment

Goodbread Mobile Home Park WWTF

Nassau County

NPDES #FL0032662

Sampled June 9, 2008

August 2008

Biology Section
Bureau of Laboratories
Division of Environmental Assessment and Restoration

Quality Manual No. 870346G
NELAC Certification No. E31780

Goodbread Mobile Home Park WWTF, U.S. Highway 17 North, Yulee, Nassau County, Florida, NPDES #FL0032662. Effluent samples for this facility were collected on June 9, 2008.

Introduction

Goodbread Mobile Home Park wastewater treatment facility (WWTF) is a privately owned facility which uses the extended-aeration treatment process to treat domestic wastewater. The facility has a design capacity of 0.005 million gallons per day (MGD) annual average daily flow (AADF). The AADF through the facility from June 2007 through May 2008 was 0.004 MGD. The wastewater treatment system consists of:

- a 5,000 gallon aeration basin;
- a 2,000 gallon secondary clarifier,
- a chlorine contact chamber;
- a tablet-feeder equipment for dechlorination; and,
- an aerobic digester.

A liquid chlorine solution is used for chlorination. Sodium bisulfite tablets are used for dechlorination. Residuals are transported to a landfill for disposal. Treated effluent is discharged intermittently to the Class III Freshwaters of Lofton Creek at Outfall D-001. The point of discharge for Outfall D-001 is located approximately at latitude 30º 38' 48" N, longitude 81º 37' 00 W".

The facility currently has no Administrative Orders, Consent Orders or mixing zones. The facility has no toxicity test requirements. A review of Discharge Monitoring Report (DMR) data for the past year, revealed a violation of monthly average total suspended solids (value 31 mg/L, permit limit 30 mg/L) in November 2007. Violations of the permitted unionized ammonia limit (values, 0.0312 mg/L, 0.0310 mg/L, 0.0260 mg/L and 0.0670 mg/L; limit ≤ 0.02 mg/L) were noted, respectively, in April, May, July and September 2007.

During the sampling event of June 9, 2008, excessive solids were noted in the effluent and the effluent appeared turbid. No chlorine was detected in the effluent and it was determined that there was no disinfection of the effluent. A noncompliance letter is being sent out for effluent violations noted during the inspection and a warning letter is to be issued in the near future. (Facility information provided by Kathleen Gerard of FDEP Northeast District.)

Methods

Samples were collected from the EFD-1 NPDES sampling point (after dechlorination and prior to discharge to surface waters) for Outfall D-001 by Kathleen Gerard and Jeremy Parrish (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 48-hour 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 Department uses the 48-hour acute screening test to provide reasonable assurance that the facility does not adversely affect waters of the state.

Toxicity Test Results

Tests were performed June 10 - 12, 2008.

Ceriodaphnia dubia 48-hour acute screening bioassay – LC_{50} > 100%, 0% mortality* in 100% sample at 48 hours

Cyprinella leedsi 48-hour acute screening bioassay –	LC_{50} > 100%, 0% mortality* in 100% sample at 48 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.

*NOTE: In a 48-hour acute screening test of 100% effluent, mortality of <20% provides confidence that the effluent meets the acute toxicity criterion of Florida's Surface Water Quality Standards (Rule 62-302.500 (1)(a)4, F.A.C.). Mortality between 20-50% indicates low to moderate levels of toxicity, and further action may be required. Mortality of >50% indicates that the effluent fails to meet the minimum requirement to discharge to waters of the state (Rule 62-4.244(3)(a), F.A.C.).

Algal Growth Potential

The effluent Algal Growth Potential (AGP) was 226 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 AGPs based on inorganic nitrogen and total nitrogen concentrations were respectively, 68.8 (±20%) mg dry wt/L and 760 (±20%) mg dry wt/L (Table 1; Miller et al. 1978).

See Table 1 for AGP results.

Chemistry Results

Total residual chlorine (TRC) and total ammonia were not detected in the bioassay sample in the laboratory. TRC was not detected in the effluent in the field. The total ammonia concentration in the sample collected and preserved for chemical analysis was 0.81 mg/L (estimated value). Based on the pH, salinity, and temperature of the effluent as collected, the calculated unionized ammonia concentration was < 0.02 mg/L.

Cadmium, lead, nickel and zinc were detected in the effluent at levels that comply with Class III fresh water quality criteria (62-302.530, F.A.C.). Arsenic, chromium-III and selenium were detected between the laboratory method detection limits (MDL) and practical quantitation limits (PQL). The effluent copper (25.1 µg/L) iron (1,930 µg/L) and silver (0.37 µg/L) exceeded their Class III Freshwater quality criterion, respectively, for copper (≤ 20.04 µg/L; 62-302.530(24), F.A.C.), iron (≤ 1,000µg/L; 62-302.530(39), F.A.C.) and silver (≤ 0.07 µg/L; 62-302.530(60), F.A.C.). Aluminum was also detected in the effluent.

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. See Appendix F for bioassay lab equipment.

Conclusion

The effluent sample collected from EFD-1 NPDES sampling point for Outfall D-001 for this facility on June 9, 2008, was not acutely toxic to either test species during the 48-hour acute screening bioassays. The effluent AGP result greatly exceeded the "problem" threshold for fresh receiving waters, suggesting nutrient enrichment may be an issue. Effluent copper, iron and silver exceeded their respective Class III Freshwater quality criterion. During the sampling event, several effluent violations were discovered, the most notable of which was the lack of chlorination.

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) for total soluble inorganic nitrogen (TSIN) and total nitrogen (TN) limitation of the freshwater species *Pseudokirchneriella subcapita* for samples collected from the Goodbread Mobile Home Park WWTF on June 9, 2008.

Goodbread Mobile Home Park WWTF				
Location	AGP (measured)	Predicted AGP (TSIN) ± 20%	Predicted AGP (TN) ± 20%	Inorganic N:P ratio	Total N:P ratio
Effluent	226 A	68.8 ± 13.8	760 ± 152.0	1.9	3.6

Table 2. Effluent limits, Class III Freshwater Criteria and chemical and microbiological data for samples collected from the Goodbread Mobile Home Park WWTF collected on June 9, 2008.

Goodbread Mobile Home Park WWTF NPDES# FL0032662	Class III Criteria	Effluent Limits	Effluent	
Organic Constituents (µg/L)				
None Detected	-	-	-	
Metals (µg/L unless otherwise noted)				
Aluminum	-	-	1,560	
Arsenic	≤ 50	-	0.54	I
Cadmium	≤ 0.525 b	-	0.14	
Calcium (mg/L)	-	-	88.8	
Chromium-III	≤ 179.4 b	-	2	I
Copper	≤ 20.04 b	-	25.1	
Iron	≤ 1,000	-	1,930	
Lead	≤ 9.94 b	-	1.64	
Magnesium (mg/L)	-	-	5.6	
Nickel	≤ 111.2 b	-	2.29	
Selenium	≤ 5.0	-	0.82	I
Silver	≤ 0.07	-	0.37	
Zinc	≤ 255.8 b	-	141	
Nutrients (mg/L)				
Ortho-phosphate	-	Report	0.96	
Total Phosphorus	-	Report	5.6	
Total Ammonia	-	Report	0.81	J
Un-ionized Ammonia	≤ 0.02 s	≤ 0.02 s	≤ 0.02	c
Nitrate and Nitrite	-	Report	1	
Total Kjeldahl Nitrogen	-	Report	19	
Organic Nitrogen	-	-	18.19	c
Total Nitrogen	-	-	20	c
General Physical and Chemical Parameters				
Dissolved Oxygen (mg/L)	≥ 5.0 s	≥ 5.0 s	7.7	£
pH (SU)	6.0 - 8.5 s	6.0 - 8.5 s	7.8	£
Conductivity (µmhos/cm)	≤ 1,275	-	682	£
Total Residual Chlorine (mg/L)	≤ 0.01 s	≤ 0.01 s	≤ 0.03	£
Chlorophyll a (µg/L) - Corrected	-	-	5.5	U
Phaeophytin (µg/L)	-	-	2.8	I
Total Suspended Solids (mg/L)	-	≤ 60 s	59	
CBOD, 5 day (mg/L), N - inhibited	-	≤ 60 s	30	V
Flow (MGD)	-	≤ 0.005 a	≤ 0.004	a
Hardness (mg $CaCO_3$)	-	-	244.79	c
Microbiology (Number of colony forming units/100ml)				
Fecal Coliforms	≤ 400s #	≤ 800 s	50	Z

Value exceeds the Class III Water Quality Criteria or permit limits

a - Annual average
b - Value is calculated based on hardness
c - Value is calculated
s - Single sample
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J - Estimated value
U - Material analyzed for but not detected; value reported is the method detection limit
V - Analyte was detected in both sample and method blank
Z - Colonies were too numerous to count (TNTC)
- If 10 or fewer samples are taken within a month, the single sample limit is 400 CFU (62-302.530(6), F.A.C.)
£ - Measurement made in bioassay laboratory

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Request Number: RQ-2008-06-09-34
Goodbread Mobile Home Park WWTF

Event ID *

Requester: Jennifer Paris

Field Report Prepared By: Jeremy Parrish

Customer: NE-DIST

Collected By: Jeremy Parrish / Kathleen Gerard

Send Final Report To Tom Kallemeyn

Project ID: FYI3

Sampling Agency: FDEP – North East

PMAS: 1143

Lab ID *	Location: Goodbread MHP WWTF effluent		☒ Comp ☐ Grab	Collection (begin) Date 6/9/08 Time 1135 Eastern Central		Collection (end) Date 6/9/08 Time 1135 Eastern Central		Bottle Group(s)** A	
	Field ID		Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)		Storet Station Number			
	Matrix (Include type e.g. Salt, Fresh, etc): Effluent	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 6/9/08 Time 1410 Eastern Central		Collection (end) Date 6/9/08 Time 1410 Eastern Central		Bottle Group(s)** B	
	Field ID: Blank		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)**	
	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)**	
	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					

Relinquished By	Date/Time	Shipping Method:	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
Jeremy Parrish	6/9/08 1500	DHL					SIC	6-10-08 / 9:40a

1 bio ASSAY Tag MF 6-10-08 0923

* 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: goodbread mobile Home Park WWTF

Address : Goodbread Circle

City: Yulee **County:** Nassau ZIP 32041

Contact/District: Kathleen Gerard / Northeast

NPDES Permit #: FL 0032662

LIMS Job #: TLH-2008-06-10-49 **LIMS Sample #:** 1107298

Lims Data Entry: 6-12-08 MF Data Entry Verification: 6-13 cF BA

Sample Collection: Date: 6-9-08 Time: 1135

Hold Time Start: Date: 6-9-08 Time: 1135

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 23.3 max 25.8 mean 24.6
Incubator # ___ min.____ max.____ mean____
Room B246 min. 25.6 max. 26.6 mean 26.1

Test 1:% mortality in 100% sample: 0 LC50: >100%
Test 2:% mortality in 100% sample: 0 LC50: >100%

Investigators' Signatures
James Devick
Brian Hatch
Marshall Faircloth

Loretta C. Wolfe
REVIEWER

Water Quality Parameters	20% DMW 5-30-08	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	150				272	HACH	BA	MF
Hardness (mg/L as $CaCO_3$):	83	135				220	HACH	BA	MF
Total Ammonia (mg/L as N):	<0.017	<0.017				<0.017	DENVER	MF	BA
Salinity (ppth):	<1	<1				<1	~~YSI~~/ Mettler	JD	MF

V 1.4 9/12/05

Appendix B. (continued)

FDEP Biology Laboratory - Bioassay Survival Bench Sheet

LIMS Sample #: 1107298 Test #: 1/2 SOP#:TA 07 01 Test Started: Date 6.9.08 (10, MF) Time: 14:15

Organism/Batch/Age: c.dubia / 21-08 <24 hours Test Ended: Date 6-12-08 Time: 1300

Chamber/Test Volume: 30 / 20 ml Diluent/ Batch: DMW / 5.30.08

Food/Batch: YCT 7-26-01 P.sub 1-31-08 Artemia 0hr — 24hr — 48hr — 72hr — Artemia Lot# —

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	A	5	5	5			
	B	B	5	5	5			
	C	C	5	5	5			
	D	D	5	5	5			
100%	A	A	5	5	5			
	B	B	5	5	5			
	C	C	5	5	5			
	D	D	5	5	5			
Loaded/Verified by: BA / MF		Checked by:	BA	BA	MF			

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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000 02

Appendix B. (continued)

FDEP Biology Laboratory - Bioassay Survival Bench Sheet

LIMS Sample #: 1107298 Test #: 2/2 SOP#:TA 07 02 Test Started: Date 6.9.08 Time: 1320

Organism/Batch/Age: c.leedsi/6.9.08/13days Test Ended: Date 6-12-08 Time: 1200

Chamber/Test Volume: 1000 / 500 ml Diluent/ Batch: Well / 6.2.08

Food/Batch: YCT — P.sub — Artemia 0hr 94-08 24hr — 48hr — 72hr — Artemia Lot# 38438

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	D1	5	5	5			
	B	D2	5	5	5			
	C	D3	5	5	5			
	D	D4	5	5	5			
100%	A	D5	5	5	5			
	B	D6	5	5	5			
	C	D7	5	5	5			
	D	D8	5	5	5			
Loaded/Verified by: JD / BA		Checked by:	BA	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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000 03

FDEP Biology Laboratory - Bioassay Parameter Bench Sheet

LIMS Sample # : 1107298 **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			
pH (S.U.)	8.1		8.2			
Temperature °C	24.3		25.0			
Dissolved Oxygen mg/L	7.7		7.7			
Conductivity (µmhos) mmhos	176.1		204			
(initials) Measured by:	JD		MK			
(initials) Recorded by:	JD		MK			

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	M		M			
pH (S.U.)	7.7		8.7			
Temperature °C	25.6		25.0			
Dissolved Oxygen mg/L	5.2		7.6			
Conductivity (µmhos) mmhos	675		712			
(initials) Measured by:	JD		MK			
(initials) Recorded by:	JD		MK			

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:

000 04

V 2.0 2/24/04

FDEP Biology Laboratory - Bioassay Parameter Bench Sheet

LIMS Sample # : 1107298 **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			
pH (S.U.)	8.2	8.3	8.3			
Temperature °C	24.4	24.7	24.4			
Dissolved Oxygen mg/L	7.6	7.0	7.1			
Conductivity (µmhos) mmhos	275	284	286			
(initials) Measured by:	JD	JD	JD			
(initials) Recorded by:	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			
pH (S.U.)	7.7	8.3	8.4			
Temperature °C	25.6	25.0	24.4			
Dissolved Oxygen mg/L	5.1	6.3	6.7			
Conductivity (µmhos) mmhos	682	678	678			
(initials) Measured by:	JD	JD	JD			
(initials) Recorded by:	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

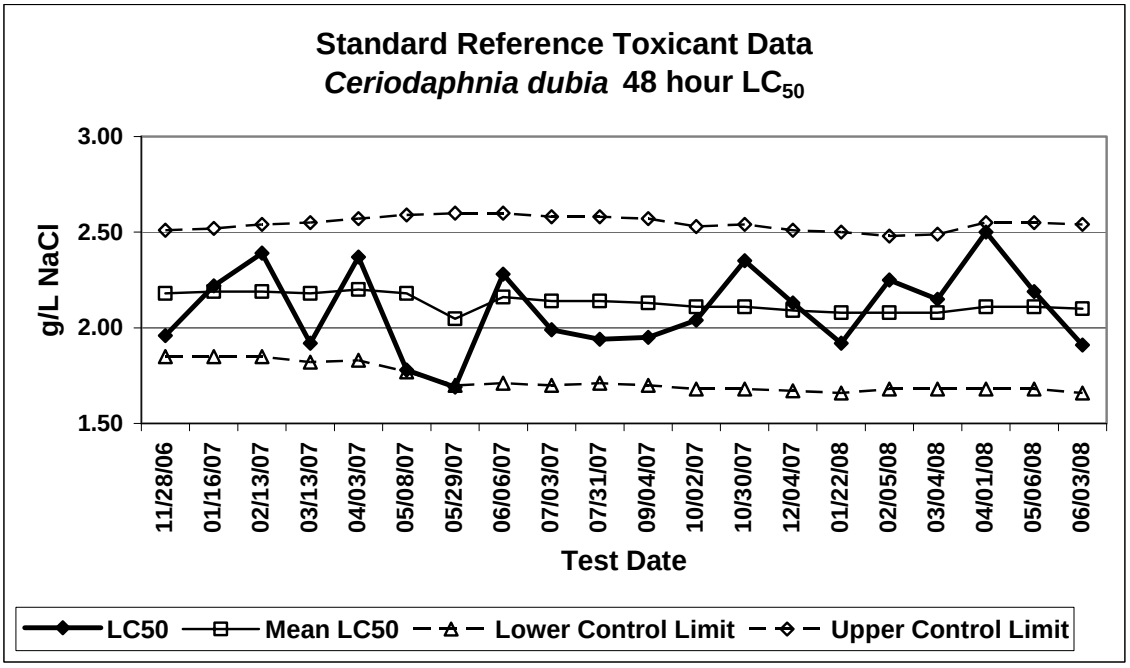
Florida Department of Environmental Protection
Bureau of Laboratories

Standard Reference Toxicant (SRT) Test Data - 48-hour Acute Toxicity
Ceriodaphnia dubia (water flea) - Sodium Chloride (NaCl)

Date	LC50	Mean LC50	Std Dev	Lower Control Limit	Upper Control Limit
11/28/06	1.96	2.18	0.17	1.85	2.51
01/16/07	2.22	2.19	0.17	1.85	2.52
02/13/07	2.39	2.19	0.17	1.85	2.54
03/13/07	1.92	2.18	0.18	1.82	2.55
04/03/07	2.37	2.20	0.18	1.83	2.57
05/08/07	1.78	2.18	0.21	1.77	2.59
05/29/07	1.69	2.05	0.23	1.70	2.60
06/06/07	2.28	2.16	0.22	1.71	2.60
07/03/07	1.99	2.14	0.22	1.70	2.58
07/31/07	1.94	2.14	0.22	1.71	2.58
09/04/07	1.95	2.13	0.22	1.70	2.57
10/02/07	2.04	2.11	0.21	1.68	2.53
10/30/07	2.35	2.11	0.21	1.68	2.54
12/04/07	2.13	2.09	0.20	1.67	2.51
01/22/08	1.92	2.08	0.20	1.66	2.50
02/05/08	2.25	2.08	0.20	1.68	2.48
03/04/08	2.15	2.08	0.20	1.68	2.49
04/01/08	2.50	2.11	0.22	1.68	2.55
05/06/08	2.19	2.11	0.22	1.68	2.55
06/03/08	1.91	2.10	0.22	1.66	2.54

Means are of the last 20 SRT tests.
Lower Control Limit = mean - 2 * Std Dev
Upper Control Limit = mean + 2 * Std Dev

CV = 10.47
EPA reference 75th quartile CV = 29%



Appendix C. (continued)

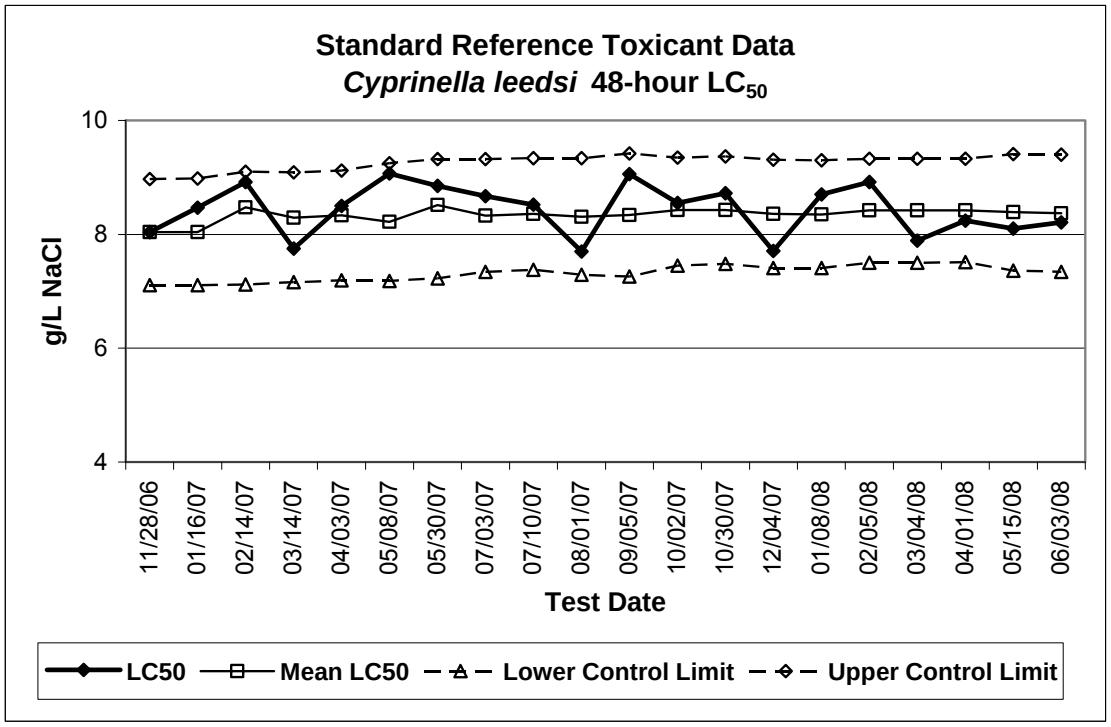
Florida Department of Environmental Protection
Bureau of Laboratories

Standard Reference Toxicant (SRT) Test Data - 48-hour Acute Toxicity
Cyprinella leedsi (bannerfin shiner) - Sodium Chloride (NaCl)

Date	LC50	Mean LC50	Std Dev	Lower Control Limit	Upper Control Limit
11/28/06	8.04	8.04	0.46	7.11	8.97
01/16/07	8.47	8.04	0.30	7.11	8.98
02/14/07	8.92	8.48	0.44	7.12	9.10
03/14/07	7.75	8.30	0.51	7.16	9.09
04/03/07	8.50	8.34	0.45	7.19	9.12
05/08/07	9.07	8.22	0.52	7.18	9.25
05/30/07	8.85	8.51	0.48	7.23	9.32
07/03/07	8.67	8.33	0.50	7.34	9.32
07/10/07	8.52	8.36	0.49	7.38	9.34
08/01/07	7.7	8.31	0.51	7.29	9.34
09/05/07	9.06	8.34	0.54	7.26	9.42
10/02/07	8.55	8.43	0.47	7.45	9.35
10/30/07	8.72	8.43	0.47	7.48	9.37
12/04/07	7.71	8.36	0.47	7.41	9.31
01/08/08	8.7	8.35	0.47	7.41	9.30
02/05/08	8.92	8.42	0.46	7.50	9.33
03/04/08	7.89	8.42	0.46	7.50	9.33
04/01/08	8.24	8.42	0.45	7.51	9.33
05/15/08	8.1	8.39	0.51	7.36	9.41
06/03/08	8.21	8.37	0.51	7.34	9.40

Means are of the last 20 SRT tests.
Lower Confidence Limit = mean - 2 * Std Dev
Upper Confidence Limit = mean + 2 * Std Dev

CV = 6.14
EPA reference 75th quartile CV = 19%



Appendix C. (continued)

000015

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 #: 20%DMW 1 5-30-08
Toxicant/ Batch#: NaCl 1 6-2-08

Test Beginning: Date: 6-3-08 Time: 1300
Test Ending: Date: 6-7-08 Time: 1205

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl_2 (mg/L):	40.03	Hach	JD
Alkalinity (mg/L as $CaCO_3$):	85	Hach	BA
Hardness (mg.L as $CaCO_3$):	83	Hach	BA
Total Ammonia (mg/L as N):	40.017	Denver	MF
Salinity (ppth):	<1	Mettler	BA

Organism Batch #/ Age: 20-08 1 <24hours
Feeding: Prior to test / Prior to renewal / Daily
Food: ~~YCT~~ ~~Ap~~ ~~Art~~ subcapitata Artemia: Lot #_____
Food Batch: ~~Art 1-31-08~~ 1-31-08 0hr____ 24hr____ 48hr____ 72hr____
Chamber size: 30 mL
Test volume: 20 mL per replicate

Conc.			Number Live			pH (SU)			Temperature (°C)			D.O. (mg/L)			Uncorrected Conductivity µmhos/cm (mmhos/cm)		
(g/L) 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	A	5	5	5	8.1		8.1	24.4		24.0	8.1		7.9	0.174		0.187
	B	B	5	5	5												
	C	C	5	5	5												
	D	D	5	5	5												
1.5	A	A	5	5	5	8.0		8.1	24.2		24.0	8.1		7.2	2.75		3.39
	B	B	5	5	5												
	C	C	5	5	5												
	D	D	5	5	5												
2.0	A	A	5	4 1D	2 2D	8.1		8.1	24.2		24.0	8.1		7.2	3.69		~~5.54~~
	B	B	5	5	4 1D											B	4.52
	C	C	5	5	0 5D												
	D	D	5	4 1D	1 3D												
2.5	A	A	5	1 4D	0 1D	8.1		8.1	24.3		24.0	8.0		7.3	4.60		5.54
	B	B	5	5	0 5D												
	C	C	5	5	1 4D												
	D	D	5	5	0 5D												
3.0	A	A	5	2 3D	0 2D	8.1		8.1	24.1		24.0	7.9		7.3	5.41		6.40
	B	B	5	2 3D	0 2D												
	C	C	5	1 4D	0 1D												
	D	D	5	3 2D	0 3D												
4.0	A	A	5	0 5D	–	8.1		8.1	24.2		24.0	7.9		7.2	7.11		8.15
	B	B	5	1 4D	0 1D												
	C	C	5	0 5D	–												
	D	D	5	2 3D	0 2D												
	A																
	B																
	C																
	D																
Loaded / measured by:			MF	BA	BA	MF		BA	MF		BA	MF		BA	MF		BA
Recorded by:			MF	BA	BA	MF		BA	MF		BA	MF		BA	MF		BA

Investigators' Signatures
Marshall Faircloth
Brian Akin
James Planish
Melita C. Wilkie
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 23.8 max 25.6 mean 24.7
Incubator # ___ min_____ max_____ mean_____
Room B246 min 25.8 max 26.8 mean 26.3

Comments:

Statistics: Method: Spearman-Karber
48/ 96 hour LC_{50}: 1.91
95% Confidence Interval: lower 1.81 upper 2.03

Appendix C. (continued)

000016

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* | *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 #: 30‰mw / 5.30.08
Toxicant/ Batch#: NaCl / 6.2.08

Test Beginning: Date: 6-3-08 Time: 1300
Test Ending: Date: 6-7-08 Time: 1205

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl_2 (mg/L):	<0.03	Hach	JD
Alkalinity (mg/L as $CaCO_3$):	85	Hach	BA
Hardness (mg.L as $CaCO_3$):	83	Hach	BA
Total Ammonia (mg/L as N):	0.017	Denver	MF
Salinity (ppth):	<1	Mettler	BA

Organism Batch #/ Age: 20-08 / <24hrs
Feeding: (Prior to test) / (Prior to renewal) / Daily
Food: (YCT) (P.subcapitata) Artemia: Lot # —
Food Batch: 7-26-07 1-31-08 0hr — 24hr — 48hr — 72hr —
Chamber size: 30 mL
Test volume: 2.0 mL per replicate

Conc.			Number Live			pH (SU)			Temperature (° C)			D.O. (mg/L)			Uncorrected Conductivity µmhos/cm (mmhos/cm)		
(@) 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	A	5	5	5	8.2		8.1	24.0		24.7	7.4		~~7.4~~ (A)	0.178		0.189
	B	B	5	5	5								A Rep>	7.2			
	C	C	5	5	5								MF 6-7-08				
	D	D	5	5	5												
1.5	A	A	5	5	5	8.1		8.0	24.0		24.7	7.4		~~7.4~~ (A)	2.87		3.01
	B	B	5	5	5								A Rep-	7.0			
	C	C	5	5	5								MF 6-7-08				
	D	D	5	5	5												
2.0	A	A	2	1 1D	0 1D	8.1		8.0	24.0		24.7	7.2		~~7.2~~ (A)	3.76		3.95
	B	B	4	3 1D	0 3D								A Rep	6.8			
	C	C	—	—	—								MF 6-7-08				
	D	D	1	1	0 1D									(A)			
2.5	A	A	—			8.2			24.0			7.2		~~7.2~~ (A)	4.13		
	B	B	—														
	C	C	1														
	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	MF	BA		MF	BA		MF	BA		MF	BA		MF
Recorded by:			BA	JD	MF	BA		MF	BA		MF	BA		MF	BA		MF

Investigators' Signatures
Brad Alexander
Marshall Faircloth
James Daniels
Loretta C. Wolfe

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 23.8 max. 25.6 mean 24.7
Incubator # ___ min ___ max. ___ mean ___
Room B246 min 25.8 max. 26.8 mean 26.1

Comments: (A) Transcription error - 24 48hr data BA 6-5-08
95% CI not reliable

Statistics: 48 / (96) hour LC_{50}: 1.73 Method: Spearman-Karber

Appendix C. (continued)

000017

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 / 6.2.08
Toxicant/ Batch#: NaCl / 6.2.08

Test Beginning: Date: 6/3/08 Time: 1400
Test Ending: Date: 6-7-08 Time: 1220

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl_2 (mg/L):	2.03	Hach	JD
Alkalinity (mg/L as $CaCO_3$):	150	Hach	BA
Hardness (mg.L as $CaCO_3$):	135	Hach	BA
Total Ammonia (mg/L as N):	2.017	Denver	MF
Salinity (ppth):	21	Mettler	JD

Organism Batch #/ Age: 6/3/08 / 12 days
Feeding: (Prior to test) (Prior to renewal) Daily
Food: YCT *P.subcapitata* Artemia: Lot # 38438
Food Batch: — — 0hr 9068 24hr ____ 48hr 9268 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 µmhos/cm (mmhos/cm) 0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr
Control	A	F1	10	10	10	7.8		8.1	24.0		24.6	8.1		6.5	0.275		0.309
	B	F2	10	10	10		7.8			24.2			6.4			0.280	
	C																
	D																
6	A	F3	10	10	10	7.9		8.1	24.0		24.7	7.8		6.4	10.8		11.2
	B	F4	10	10	10		7.9			24.1			5.8			10.9	
	C																
	D																
7	A	F5	10	10	9(10)	7.9		8.1	24.0		24.7	8.0		6.4	12.7		13.1
	B	F6	10	9(10)	9		7.9			24.1			5.7			12.9	
	C																
	D																
8	A	F7	10	10	10	7.9		8.1	24.0		24.8	7.8		5.9	14.8		15.1
	B	F8	10	7(10)	7		7.9			24.2			5.6			14.3	
	C																
	D																
9	A	F9	10	0(10)	—	7.9			24.0			7.8			16.4		
	B	F10	10	0(10)	—		7.9			24.2			5.3			16.1	
	C																
	D																
10	A	F11	10	0(10)	—	7.9			24.0			7.8			18.3		
	B	F12	10	0(10)	—		7.7			24.3			4.6			18.0	
	C																
	D																
	A																
	B																
	C																
	D																
Loaded / measured by:			JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
Recorded by:			JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD

Investigators' Signatures
Jacob Diamond
Brad Cole
Marshall Finchum

Loretta C. Wolfe
REVIEWER

Concentrations prepared by: JD
Loading verified by: BA
Light Intensity: 50-100 Ft. candles
Photoperiod: 16 hours Light / 8 hours dark
Temperature Range °C:
Incubator # 2 min. 23.8 max. 25.0 mean 24.7
Incubator # ___ min. ____ max. ____ mean ____
Room B246 min. 25.8 max. 26.8 mean 26.3

Comments:

95% confidence lower 7.98 upper: 8.44

Statistics: Method: Spearman-Karber
(48)/ 96 hour LC_{50}: 8.21

Appendix C. (continued)

000018

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 / 6.2.08
Toxicant/ Batch#: NaCl / 6.2.08

Test Beginning: Date: 6.3.08 Time: 1400
Test Ending: Date: 6-7-08 Time: 1220

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl_2 (mg/L):	4403	Hach	JD
Alkalinity (mg/L as $CaCO_3$):	150	Hach	BA
Hardness (mg/L as $CaCO_3$):	135	Hach	BA
Total Ammonia (mg/L as N):	<0.07	Denver	MF
Salinity (ppth):	22	Mettler	JD

Organism Batch #/ Age: 6.3.08 / 12 days
Feeding: Prior to test / Prior to renewal / Daily
Food: YCT *P.subcapitata* Artemia: Lot # 38438
Food Batch: — — 0hr 0.58 24hr ____ 48hr 12.25 72hr ____
Chamber size: 1000 mL
Test volume: 500 mL per replicate

Conc.			Number Live			pH (SU)			Temperature (° C)			D.O. (mg/L)			Uncorrected Conductivity µmhos/cm (mmhos/cm)		
(%) µg/L mg/L	Rep.	Chamber #	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
			48 hr	72 hr	96 hr	48 hr	72 hr	96 hr	48 hr	72 hr	96 hr	48 hr	72 hr	96 hr	48 hr	72 hr	96 hr
Control	A	F1	10	10	10	8.0		8.1	24.0		25.1	7.2		6.3	0.276		0.287
	B	F2	10	10	10		7.8			24.0			5.8			0.278	
	C																
	D																
6	A	F3	10	10	10	7.9		8.0	24.0		25.2	7.0		6.2	11.1		11.3
	B	F4	10	10	10		7.9			24.7			5.7			11.1	
	C																
	D																
7	A	F5	9	9	9	7.9		8.0	24.0		25.1	7.0		6.3	13.1		13.4
	B	F6	9	9	9		7.9			24.6			5.8			13.1	
	C																
	D																
8	A	F7	10	10	10	8.0		8.0	24.0		24.9	7.0		6.2	14.7		15.0
	B	F8	7	7	7		7.8			24.6			5.8			14.7	
	C																
	D																
9	A	F9															
	B	F10															
	C																
	D																
10	A	F11															
	B	F12															
	C																
	D																
	A																
	B																
	C																
	D																
Loaded / measured by:			JD	JD	MF	JD	JD	MF	JD	JD	MF	JD	JD	MF	JD	JD	MF
Recorded by:			JD	JD	MF	JD	JD	MF	JD	JD	MF	JD	JD	MF	JD	JD	MF

Investigators' Signatures
Bee
Marshall Fairclath
James Daniels
Loretta Colville
REVIEWER

Concentrations prepared by: JD
Loading verified by: BA
Light Intensity: 50-100 Ft. candles
Photoperiod: 16 hours Light / 8 hours dark
Temperature Range °C:
Incubator # 2 min. 23.8 max. 25.6 mean 24.7
Incubator # ___ min. ____ max. ____ mean ____
Room B246 min. 25.8 max. 26.8 mean 26.3

Comments:

Statistics: Method: Spearman-Karber
48 / 96 hour LC_{50}: 8.21
95% Confidence Interval: lower 7.98 upper 8.44 BA

Appendix C. (continued)

***Ceriodaphnia dubia* Acute Standard Reference Toxicant Test**

DATE: 6-3-08 DURATION: 48 hr TOXICANT : NaCl
SPECIES: *Ceriodaphnia dubia*

RAW DATA: Concentration (g/l)	Number Exposed	Mortalities
.00	20	0
1.50	20	0
2.00	20	13
2.50	20	19
3.00	20	20
4.00	20	20

SPEARMAN-KARBER TRIM: .00%

SPEARMAN-KARBER ESTIMATES: **LC50: 1.91**
95% LOWER CONFIDENCE: 1.81
95% UPPER CONFIDENCE: 2.03

***Cyprinella leedsi* Acute Standard Reference Toxicant Test**

DATE: 6-3-08 DURATION: 48 hr TOXICANT : NaCl
SPECIES: *Cyprinella leedsi*

RAW DATA: Concentration (g/L)	Number Exposed	Mortalities
.00	20	0
6.00	20	0
7.00	20	2
8.00	20	3
9.00	20	20
10.00	20	20

SPEARMAN-KARBER TRIM: .00%

SPEARMAN-KARBER ESTIMATES: **LC50: 8.21**
95% LOWER CONFIDENCE: 7.98
95% UPPER CONFIDENCE: 8.44

Appendix D. Test Organism Receipt(s)

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: 06/02/08

Shipped to: FDEP

P.O. No: _____

Species	Quantity	Age	Brood Number	Temperature	Salinity
Mysidopsis bahia	150	4 days	MS080530	27°C	15ppt
Menidia beryllina	150	12 day	SS080522	27°C	20ppt
Cyprinella leedsi	250	11 days	CL080523	27°C	
Pimephales promelas	150	9 days	FM080525-bb	27°C	

Packed by: MP

Shipped Via: Fed ex

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: 6/9/08

Shipped to: FOEP

P.O. No: _____

Species	Quantity	Age	Brood Number	Temperature	Salinity
Mysidopsis bahia	150	4 days	MS 080605	28 °C	20ppt
	250	6	MS 080603	↓	↓
Menidia beryllina	150	12	SS 080528		
Cyprinella leedsi	100	12	CL 080528		
Pimephales promelas	150	7	FM 080601		
	250	<24 hrs	FM 080608 - 1510	↓	

Packed by: MF

Shipped Via: Fedex

Notes: _____

Thank you for your order.

Appendix E. Chemical Analyses performed on the effluent from the Goodbread Mobile Home Park Wastewater Treatment Facility Outfall D-001, sampled on June 9, 2008.

Date Sampled	Field ID	Analysis	Component	Result	Remark	Units	MDL	PQL
6/9/2008 11:35	Effluent	AGP/LN	Algal Growth Potential	226	A	mg DryWt/L	0.3	0.9
6/9/2008 11:35	Effluent	Chlorophyll/Grain Size/BOD	Phaeophytin-a	2.8	I	ug/L	2.4	7.1
6/9/2008 11:35	Effluent	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	30	V	mg/L	0.2	2
6/9/2008 11:35	Effluent	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	5.5	U	ug/L	5.5	17
6/9/2008 11:35	Effluent	Overflow	Fecal Coliforms-Membrane Filter	50	Z	#/100 mL	1	
6/9/2008 11:35	Effluent	Toxicology	Bioassay-Acute-Screen-FW-C.dubia, LC50	100	L	LC50		
6/9/2008 11:35	Effluent	Toxicology	Bioassay-Acute-Screen-FW-Fish, LC50	100	L	LC50		
6/9/2008 11:35	Effluent	Metals	Iron	1930		ug/L	30	120
6/9/2008 11:35	Effluent	Metals	Cadmium	0.14		ug/L	0.02	0.08
6/9/2008 11:35	Effluent	Metals	Lead	1.64		ug/L	0.2	0.8
6/9/2008 11:35	Effluent	Metals	Aluminum	1560		ug/L	60	240
6/9/2008 11:35	Effluent	Metals	Chromium	2	I	ug/L	1	4
6/9/2008 11:35	Effluent	Metals	Magnesium	5.6		mg/L	0.04	0.16
6/9/2008 11:35	Effluent	Metals	Copper	25.1		ug/L	0.5	2
6/9/2008 11:35	Effluent	Metals	Selenium	0.82	I	ug/L	0.5	2
6/9/2008 11:35	Effluent	Metals	Arsenic	0.54	I	ug/L	0.5	2
6/9/2008 11:35	Effluent	Metals	Calcium	88.8		mg/L	0.075	0.3
6/9/2008 11:35	Effluent	Metals	Zinc	141		ug/L	5	20
6/9/2008 11:35	Effluent	Metals	Nickel	2.29		ug/L	0.25	1
6/9/2008 11:35	Effluent	Metals	Silver	0.37		ug/L	0.025	0.1
6/9/2008 11:35	Effluent	Nutrients	O-Phosphate-P	0.96		mg P/L	0.08	0.2
6/9/2008 11:35	Effluent	Nutrients	Ammonia-N	0.81	J	mg N/L	0.05	0.1
6/9/2008 11:35	Effluent	Nutrients	TSS	59		mg/L	4	16
6/9/2008 11:35	Effluent	Nutrients	NO2NO3-N	1		mg N/L	0.04	0.1
6/9/2008 11:35	Effluent	Nutrients	Total-P	5.6		mg P/L	0.2	0.6
6/9/2008 11:35	Effluent	Nutrients	Kjeldahl Nitrogen	19		mg N/L	0.4	1
6/9/2008 11:35	Effluent	Pesticides	Ametryn	0.05	U	ug/L	0.05	0.2
6/9/2008 11:35	Effluent	Pesticides	Fonofos	0.1	U	ug/L	0.1	0.4
6/9/2008 11:35	Effluent	Pesticides	Norflurazon	0.15	U	ug/L	0.15	0.6
6/9/2008 11:35	Effluent	Pesticides	Parathion Ethyl	0.15	U	ug/L	0.15	0.6
6/9/2008 11:35	Effluent	Pesticides	Alachlor	0.6	U	ug/L	0.6	2.4
6/9/2008 11:35	Effluent	Pesticides	Prometryn	0.15	U	ug/L	0.15	0.6
6/9/2008 11:35	Effluent	Pesticides	Azinphos Methyl	0.2	U	ug/L	0.2	0.8

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Result	Remark	Units	MDL	PQL
6/9/2008 11:35	Effluent	Pesticides	Diazinon	0.05	U	ug/L	0.05	0.2
6/9/2008 11:35	Effluent	Pesticides	Hexazinone	0.1	U	ug/L	0.1	0.4
6/9/2008 11:35	Effluent	Pesticides	Malathion	0.15	U	ug/L	0.15	0.6
6/9/2008 11:35	Effluent	Pesticides	Metolachlor	0.5	U	ug/L	0.5	2
6/9/2008 11:35	Effluent	Pesticides	Metribuzin	0.1	U	ug/L	0.1	0.4
6/9/2008 11:35	Effluent	Pesticides	Ethion	0.05	U	ug/L	0.05	0.2
6/9/2008 11:35	Effluent	Pesticides	Ethoprop	0.1	U	ug/L	0.1	0.4
6/9/2008 11:35	Effluent	Pesticides	Atrazine	0.05	U	ug/L	0.05	0.2
6/9/2008 11:35	Effluent	Pesticides	Fenamiphos	0.2	U	ug/L	0.2	0.8
6/9/2008 11:35	Effluent	Pesticides	Bromacil	0.2	U	ug/L	0.2	0.8
6/9/2008 11:35	Effluent	Pesticides	Mevinphos	0.2	U	ug/L	0.2	0.8
6/9/2008 11:35	Effluent	Pesticides	Naled	0.8	U	ug/L	0.8	3.2
6/9/2008 11:35	Effluent	Pesticides	Simazine	0.05	U	ug/L	0.05	0.2
6/9/2008 11:35	Effluent	Pesticides	Parathion Methyl	0.1	U	ug/L	0.1	0.4
6/9/2008 11:35	Effluent	Pesticides	Chlorpyrifos Methyl	0.1	U	ug/L	0.1	0.4
6/9/2008 11:35	Effluent	Pesticides	Butylate	0.2	U	ug/L	0.2	0.8
6/9/2008 11:35	Effluent	Pesticides	Phorate	0.05	U	ug/L	0.05	0.2
6/9/2008 11:35	Effluent	Pesticides	Metalaxyl	0.25	U	ug/L	0.25	1
6/9/2008 11:35	Effluent	Pesticides	Chlorpyrifos Ethyl	0.05	U	ug/L	0.05	0.2
6/9/2008 11:35	Effluent	Priority Organic Pollutants	4,4'-DDD	1.5	U	ug/L	1.5	6
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Aldrin	1.5	U	ug/L	1.5	6
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Butyl benzyl phthalate	5	U	ug/L	5	20
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Dibenzo(a,h)anthracene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Hexachlorobutadiene	3	U	ug/L	3	12
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Nitrobenzene	2	U	ug/L	2	8
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Pyrene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	beta-BHC	1.5	U	ug/L	1.5	6
6/9/2008 11:35	Effluent	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3	U	ug/L	3	12
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Acenaphthene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Benzo(g,h,i)perylene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Heptachlor	1.5	U	ug/L	1.5	6
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Heptachlor epoxide	1.5	U	ug/L	1.5	6
6/9/2008 11:35	Effluent	Priority Organic Pollutants	2,4-Dinitrophenol	15	U	ug/L	15	60
6/9/2008 11:35	Effluent	Priority Organic Pollutants	4-Chloro-3-methylphenol	1	U	ug/L	1	4

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Result	Remark	Units	MDL	PQL
6/9/2008 11:35	Effluent	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2	U	ug/L	2	8
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Benzo(a)anthracene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Dieldrin	1.5	U	ug/L	1.5	6
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Endrin	1.5	U	ug/L	1.5	6
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Hexachlorobenzene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	2,4-Dichlorophenol	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	2,6-Dinitrotoluene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	2-Chlorophenol	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	60
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Acenaphthylene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Anthracene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Diethyl phthalate	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Dimethyl phthalate	10	U	ug/L	10	40
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Naphthalene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Phenanthrene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Benzo(a)pyrene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3	U	ug/L	3	12
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Di-n-octyl phthalate	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Endrin aldehyde	4	U	ug/L	4	16
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Fluoranthene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2	U	ug/L	2	8
6/9/2008 11:35	Effluent	Priority Organic Pollutants	alpha-BHC	1.5	U	ug/L	1.5	6
6/9/2008 11:35	Effluent	Priority Organic Pollutants	delta-BHC	1.5	U	ug/L	1.5	6
6/9/2008 11:35	Effluent	Priority Organic Pollutants	4,4'-DDT	1.5	U	ug/L	1.5	6
6/9/2008 11:35	Effluent	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Benzo(k)fluoranthene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	15	U	ug/L	15	60
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Chrysene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Endosulfan I	4	U	ug/L	4	16
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	2,4,6-Trichlorophenol	1	U	ug/L	1	4

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Result	Remark	Units	MDL	PQL
6/9/2008 11:35	Effluent	Priority Organic Pollutants	2,4-Dimethylphenol	10	U	ug/L	10	40
6/9/2008 11:35	Effluent	Priority Organic Pollutants	2-Chloronaphthalene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	2-Nitrophenol	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	4,4'-DDE	1.5	U	ug/L	1.5	6
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Benzo(b)fluoranthene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Endosulfan II	4	U	ug/L	4	16
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Fluorene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Hexachlorocyclopentadiene	3	UJ	ug/L	3	12
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Hexachloroethane	3	U	ug/L	3	12
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Isophorone	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Pentachlorophenol	3	U	ug/L	3	12
6/9/2008 11:35	Effluent	Priority Organic Pollutants	2,4-Dinitrotoluene	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	3,3'-Dichlorobenzidine	40	U	ug/L	40	160
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Benzidine	100	U	ug/L	100	400
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Di-n-butyl phthalate	5	U	ug/L	5	20
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Endosulfan sulfate	1.5	U	ug/L	1.5	6
6/9/2008 11:35	Effluent	Priority Organic Pollutants	N-Nitrosodimethylamine	2	U	ug/L	2	8
6/9/2008 11:35	Effluent	Priority Organic Pollutants	Phenol	1	U	ug/L	1	4
6/9/2008 11:35	Effluent	Priority Organic Pollutants	gamma-BHC	1.5	U	ug/L	1.5	6
6/9/2008 14:10	Blank	Metals	Arsenic	0.5	U	ug/L	0.5	2
6/9/2008 14:10	Blank	Metals	Silver	0.025	U	ug/L	0.025	0.1
6/9/2008 14:10	Blank	Metals	Aluminum	60	U	ug/L	60	240
6/9/2008 14:10	Blank	Metals	Iron	30	U	ug/L	30	120
6/9/2008 14:10	Blank	Metals	Magnesium	0.04	U	mg/L	0.04	0.16
6/9/2008 14:10	Blank	Metals	Selenium	0.5	U	ug/L	0.5	2
6/9/2008 14:10	Blank	Metals	Copper	0.5	U	ug/L	0.5	2
6/9/2008 14:10	Blank	Metals	Nickel	0.25	U	ug/L	0.25	1
6/9/2008 14:10	Blank	Metals	Lead	0.2	U	ug/L	0.2	0.8
6/9/2008 14:10	Blank	Metals	Cadmium	0.02	U	ug/L	0.02	0.08
6/9/2008 14:10	Blank	Metals	Calcium	0.075	U	mg/L	0.075	0.3
6/9/2008 14:10	Blank	Metals	Zinc	5	U	ug/L	5	20
6/9/2008 14:10	Blank	Metals	Chromium	1	U	ug/L	1	4
6/9/2008 14:10	Blank	Nutrients	Kjeldahl Nitrogen	0.08	U	mg N/L	0.08	0.2
6/9/2008 14:10	Blank	Nutrients	Total-P	0.02	U	mg P/L	0.02	0.06

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Result	Remark	Units	MDL	PQL
6/9/2008 14:10	Blank	Nutrients	O-Phosphate-P	0.009	I	mg P/L	0.004	0.01
6/9/2008 14:10	Blank	Nutrients	Ammonia-N	0.01	U	mg N/L	0.01	0.02
6/9/2008 14:10	Blank	Nutrients	NO2NO3-N	0.004	U	mg N/L	0.004	0.01
6/9/2008 14:10	Blank	Pesticides	Norflurazon	0.16	U	ug/L	0.16	0.64
6/9/2008 14:10	Blank	Pesticides	Parathion Ethyl	0.16	U	ug/L	0.16	0.64
6/9/2008 14:10	Blank	Pesticides	Phorate	0.053	U	ug/L	0.053	0.21
6/9/2008 14:10	Blank	Pesticides	Simazine	0.053	U	ug/L	0.053	0.21
6/9/2008 14:10	Blank	Pesticides	Diazinon	0.053	U	ug/L	0.053	0.21
6/9/2008 14:10	Blank	Pesticides	Fenamiphos	0.21	U	ug/L	0.21	0.84
6/9/2008 14:10	Blank	Pesticides	Malathion	0.16	U	ug/L	0.16	0.64
6/9/2008 14:10	Blank	Pesticides	Naled	0.85	U	ug/L	0.85	3.4
6/9/2008 14:10	Blank	Pesticides	Bromacil	0.21	U	ug/L	0.21	0.84
6/9/2008 14:10	Blank	Pesticides	Metalaxyl	0.27	U	ug/L	0.27	1.1
6/9/2008 14:10	Blank	Pesticides	Metribuzin	0.11	U	ug/L	0.11	0.44
6/9/2008 14:10	Blank	Pesticides	Chlorpyrifos Ethyl	0.053	U	ug/L	0.053	0.21
6/9/2008 14:10	Blank	Pesticides	Butylate	0.21	U	ug/L	0.21	0.84
6/9/2008 14:10	Blank	Pesticides	Ametryn	0.053	U	ug/L	0.053	0.21
6/9/2008 14:10	Blank	Pesticides	Alachlor	0.64	U	ug/L	0.64	2.6
6/9/2008 14:10	Blank	Pesticides	Metolachlor	0.53	U	ug/L	0.53	2.1
6/9/2008 14:10	Blank	Pesticides	Ethoprop	0.11	U	ug/L	0.11	0.44
6/9/2008 14:10	Blank	Pesticides	Azinphos Methyl	0.21	U	ug/L	0.21	0.84
6/9/2008 14:10	Blank	Pesticides	Prometryn	0.16	U	ug/L	0.16	0.64
6/9/2008 14:10	Blank	Pesticides	Mevinphos	0.21	U	ug/L	0.21	0.84
6/9/2008 14:10	Blank	Pesticides	Hexazinone	0.11	U	ug/L	0.11	0.44
6/9/2008 14:10	Blank	Pesticides	Atrazine	0.053	U	ug/L	0.053	0.21
6/9/2008 14:10	Blank	Pesticides	Parathion Methyl	0.11	U	ug/L	0.11	0.44
6/9/2008 14:10	Blank	Pesticides	Ethion	0.053	U	ug/L	0.053	0.21
6/9/2008 14:10	Blank	Pesticides	Chlorpyrifos Methyl	0.11	U	ug/L	0.11	0.44
6/9/2008 14:10	Blank	Pesticides	Fonofos	0.11	U	ug/L	0.11	0.44
6/9/2008 14:10	Blank	Priority Organic Pollutants	2-Nitrophenol	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	4,4'-DDT	1.6	U	ug/L	1.6	6.3
6/9/2008 14:10	Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Benzo(a)anthracene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Endrin aldehyde	4.2	U	ug/L	4.2	17

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Result	Remark	Units	MDL	PQL
6/9/2008 14:10	Blank	Priority Organic Pollutants	Hexachlorobenzene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Hexachlorobutadiene	3.2	U	ug/L	3.2	13
6/9/2008 14:10	Blank	Priority Organic Pollutants	gamma-BHC	1.6	U	ug/L	1.6	6.3
6/9/2008 14:10	Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Benzidine	110	U	ug/L	110	420
6/9/2008 14:10	Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Fluoranthene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Hexachloroethane	3.2	U	ug/L	3.2	13
6/9/2008 14:10	Blank	Priority Organic Pollutants	Nitrobenzene	2.1	U	ug/L	2.1	8.4
6/9/2008 14:10	Blank	Priority Organic Pollutants	Phenanthrene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	2,4-Dinitrophenol	16	U	ug/L	16	63
6/9/2008 14:10	Blank	Priority Organic Pollutants	2-Chloronaphthalene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Acenaphthylene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Di-n-octyl phthalate	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	2,4-Dimethylphenol	11	U	ug/L	11	42
6/9/2008 14:10	Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.2	U	ug/L	3.2	13
6/9/2008 14:10	Blank	Priority Organic Pollutants	4-Nitrophenol	16	U	ug/L	16	63
6/9/2008 14:10	Blank	Priority Organic Pollutants	Acenaphthene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Anthracene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Benzo(a)pyrene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Chrysene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Dieldrin	1.6	U	ug/L	1.6	6.3
6/9/2008 14:10	Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.2	UJ	ug/L	3.2	13
6/9/2008 14:10	Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Aldrin	1.6	U	ug/L	1.6	6.3
6/9/2008 14:10	Blank	Priority Organic Pollutants	Diethyl phthalate	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Dimethyl phthalate	11	U	ug/L	11	42
6/9/2008 14:10	Blank	Priority Organic Pollutants	Endosulfan sulfate	1.6	U	ug/L	1.6	6.3

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Result	Remark	Units	MDL	PQL
6/9/2008 14:10	Blank	Priority Organic Pollutants	Fluorene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Isophorone	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Pentachlorophenol	3.2	U	ug/L	3.2	13
6/9/2008 14:10	Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	42	U	ug/L	42	170
6/9/2008 14:10	Blank	Priority Organic Pollutants	4,4'-DDE	1.6	U	ug/L	1.6	6.3
6/9/2008 14:10	Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.1	U	ug/L	2.1	8.4
6/9/2008 14:10	Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.2	U	ug/L	3.2	13
6/9/2008 14:10	Blank	Priority Organic Pollutants	Heptachlor	1.6	U	ug/L	1.6	6.3
6/9/2008 14:10	Blank	Priority Organic Pollutants	Heptachlor epoxide	1.6	U	ug/L	1.6	6.3
6/9/2008 14:10	Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.1	U	ug/L	2.1	8.4
6/9/2008 14:10	Blank	Priority Organic Pollutants	Naphthalene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Pyrene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	beta-BHC	1.6	U	ug/L	1.6	6.3
6/9/2008 14:10	Blank	Priority Organic Pollutants	2,4-Dichlorophenol	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	2-Chlorophenol	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Endrin	1.6	U	ug/L	1.6	6.3
6/9/2008 14:10	Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2.1	U	ug/L	2.1	8.4
6/9/2008 14:10	Blank	Priority Organic Pollutants	alpha-BHC	1.6	U	ug/L	1.6	6.3
6/9/2008 14:10	Blank	Priority Organic Pollutants	delta-BHC	1.6	U	ug/L	1.6	6.3
6/9/2008 14:10	Blank	Priority Organic Pollutants	4,4'-DDD	1.6	U	ug/L	1.6	6.3
6/9/2008 14:10	Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	16	U	ug/L	16	63
6/9/2008 14:10	Blank	Priority Organic Pollutants	Butyl benzyl phthalate	5.3	U	ug/L	5.3	21
6/9/2008 14:10	Blank	Priority Organic Pollutants	Di-n-butyl phthalate	5.3	U	ug/L	5.3	21
6/9/2008 14:10	Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	1.1	U	ug/L	1.1	4.2
6/9/2008 14:10	Blank	Priority Organic Pollutants	Endosulfan I	4.2	U	ug/L	4.2	17
6/9/2008 14:10	Blank	Priority Organic Pollutants	Endosulfan II	4.2	U	ug/L	4.2	17
6/9/2008 14:10	Blank	Priority Organic Pollutants	Phenol	1.1	U	ug/L	1.1	4.2

Appendix F. Bioassay Instruments

Test ID: Goodbread Mobile Home Park WWTF Test Dates: June 10-12, 2008

METER / DEVICE	ID	SOP	Parameter	Method	√ used
YSI Model 58 Dissolved Oxygen Meter	90H018262	TA06_04	Dissolved Oxygen	SM 4500 O G	√
Accumet AR-10 pH Meter	93312105	TA06_23	pH	SM 4500 H^+	√
Mettler-Toledo SevenMulti Conductivity Meter	SN 1225117049 Probe H04257	TA06_25	Conductivity Salinity	SM 2510 B SM 2520 B	√ √
Denver Model 225 ISE with ammonia probe	SN K01377	TA06_17	Ammonia	SM 4500 NH3 F	√
Thermometer (DO probe)	YSI 5750 SN 05J1720	TA06_05	Temperature	SM-2530B modified DEP SOP-001/01 FT1400	√
Hach Pocket Colorimeter II	05050C026378	TA06_22	Total Residual Chlorine	EPA 330.5 SM 4500 CL G	√
Alkalinity (Hach Kit)	No SN	TA06_08	Alkalinity	SM 2320 B	√
Hardness (Hach Kit)	No SN	TA06_09	Hardness	SM 2340 C	
OHAUS Balance 250D	1125481084	TA06_21 TA06_27	Weight	-	
S-Weights	BIO-S-WEIGHTS-01	NA	Balance check	-	

SM-2530B modified to allow use electronic and non-mercury filled thermometers.
Insert other device information in blank spaces(if used). Test ID = Facility or SRTs (acute SRT--Chronic SRT)

Comments:

V 1.3 7/22/08 MF

The Bioassay of the Goodbread Mobile Home Park Wastewater Treatment Facility effluent sampled on June 9, 2008. NPDES #FL0032662.

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

Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 F L 0 0 3 2 6 6 2 11	12 0 8 0 6 0 9	18 B	19 S	20 2

Remarks

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The Priority Pollutants Analysis of the Goodbread Mobile Home Park Wastewater Treatment Facility effluent sampled on June 9, 2008. NPDES #FL0032662.

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

Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 F L 0 0 3 2 6 6 2 11	12 0 8 0 6 0 9	18 X	19 S	20 2

Remarks

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Biological Analyses of the Goodbread Mobile Home Park Wastewater Treatment Facility effluent sampled on June 9, 2008. NPDES #FL0032662.

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

Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 F L 0 0 3 2 6 6 2 11	12 0 8 0 6 0 9	18 S	19 S	20 2

Remarks

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