

Effluent Quality Assessment of the

Florida Army National Guard - Camp Blanding WWTF

Clay County

NPDES #FL0022853

Sampled March 26, 2007

June 2007

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

Florida Army National Guard (FANG)-Camp Blanding Wastewater Treatment Facility, Route 1 Box 465, Starke, Clay County, Florida, NPDES# FL0022853. Effluent samples were collected from this facility on March 26, 2007.

Introduction

Florida Army National Guard (FANG)-Camp Blanding Wastewater Treatment Facility uses the sequential batch-reactor process to treat domestic wastewater to secondary treatment levels. The facility has a design flow of 0.9 million gallons per day (MGD) annual average daily flow (AADF). The AADF from March 1, 2006, through February 28, 2007, was 0.09 MGD. The facility consists of one mechanical grit-removal screen, a 9-inch parshall flume, a flow splitter, four sequential batch reactors, two chlorine contact chambers, one dechlorination system, a belt thickener, and one aerobic digester. Liquid sodium hypochlorite is used for chlorination. Liquid sodium bisulfite is used for dechlorination. Treated effluent is discharged through Outfall D-001 to the Class III Freshwaters of the South Fork of Black Creek. Outfall D-001 is approximately 2,133.6 m (7,000 feet) in length and discharges at a depth of approximately 0.46 m (1.5 feet). Outfall D-001 is located approximately at latitude 29º 56" 00" N, longitude 81º 57' 11" W. Residuals are disposed by land application at Vause Farms #1 and #3, Circle C Residuals Management Facility (RMF), or disposal in a Class I or Class II solid waste landfill.

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 permit limit violations for total residual chlorine at sampling location EFA-1 (immediately after disinfection but before dechlorination) during February (value 0.45 mg/L, limit ≥ 0.5 mg/L) and May 2006 (value 0.035 mg/L, limit ≥ 0.5 mg/L). A review of monthly operating reports (MOR) revealed no noticeable trends. (Facility information provided by Joseph Emery and Jennifer Paris of FDEP Northeast District.)

Methods

Samples were collected from the EFD-1 NPDES sampling point (immediately after dechlorination) for Outfall D-001 by Tom Kallemeyn (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_01, 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. Bioassays for this facility were scheduled for four samples collected over a 24 hour period (one sample every six hours). Due to the intermittent discharge from the facility, only 2 samples were collected for these tests. The tests for these samples were performed in accordance with permit requirements.

Toxicity Test Results

Tests were performed March 27 - 31, 2007.

Ceriodaphnia dubia 96-hour acute screening bioassay sample 1– LC_{50} > 100%, 0% mortality in 100% sample at 96 hours

Cyprinella leedsi 96-hour acute screening bioassay sample 1– LC_{50} > 100%, 0% mortality in 100% sample at 96 hours

Ceriodaphnia dubia 96-hour acute screening bioassay sample 2– LC_{50} < 100%, 65% mortality in 100% sample at 96 hours

Cyprinella leedsi 96-hour acute screening bioassay sample 2– LC_{50} < 100%, 70% mortality in 100% sample at 96 hours

Bioassay sample 1 (collected at 10:20 AM) was not acutely toxic to the test organisms. Bioassay sample 2 (collected at 3:00 PM) was acutely toxic to the test organisms, producing greater than 50% mortality. The cause of the toxicity was not determined.

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 575 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 concentrations was 749.7 (±20%) mg dry wt/L (Table 1; Miller et al. 1978).

See Table 1 for AGP results.

Chemistry Results

Total residual chlorine was not detected in either bioassay sample in the field or in the laboratory. Total ammonia was detected in the laboratory in bioassay sample 1 (0.391 mg/L) and in bioassay sample 2 (0.316 mg/L). Based on the pH, salinity, and temperature of the samples, the unionized ammonia concentration in both samples was < 0.02 mg/L. The total ammonia concentration in the sample collected and preserved for chemical analysis was 0.73 mg/L. Based on the pH, salinity, and temperature of the effluent as collected, the calculated unionized ammonia concentration in the preserved sample was < 0.02 mg/L.

Cadmium, copper, iron, 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.); the cadmium result is estimated. Arsenic and lead were detected between the laboratory method detection limits (MDL) and practical quantitation limits (PQL). 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.

Conclusion

The effluent sample collected from Outfall D-001 for this facility at 10:20 AM on March 26, 2007, was not acutely toxic to either test species during the 96-hour acute screening bioassays. The effluent sample collected at 3:00 PM on March 26, 2007, was acutely toxic to both test species during the 96-hour acute screening bioassays, in violation of permit conditions. The cause of toxicity was not determined. The effluent AGP result exceeded the "problem” threshold for fresh receiving waters. No other water quality standards or permit limits were exceeded.

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 nitrogen (TSIN) and total nitrogen (TN) limitation of the freshwater species *Pseudokirchneriella subcapitata* and ratios of nitrogen to phosphorus for samples collected from FANG - Camp Blanding Wastewater Treatment Facility on March 26, 2007.

Location	AGP (measured)	Predicted AGP (TSIN) ± 20%	Predicted AGP (TN) ± 20%	Inorganic N:P ratio	Total N:P ratio
Effluent	575.0	749.7 ± 149.9	828.4 ± 165.7	4.0	4.2

Table 2. Effluent limits, Class III Freshwater Criteria, and chemical and microbiological data for samples collected from FANG - Camp Blanding WWTF on March 26, 2007 .

FANG - Camp Blanding WWTF NPDES# FL0022853	Class III Stds	Effluent Limits	Effluent Sample 1	Effluent Sample 2
Organic Constituents (µg/L)				
None Detected	-	-	-	-
Metals (µg/L unless otherwise noted)				
Aluminum	-	-	30 A	-
Arsenic	≤ 50	-	0.92 I	-
Cadmium	≤ 0.29 b	-	0.23 AJ	-
Calcium (mg/L)	-	-	31.4 A	-
Chromium-III	≤ 92.7 b	-	0.3 U	-
Copper	≤ 10.1 b	-	8.44 A	-
Iron	≤ 1,000	-	92 A	-
Lead	≤ 3.6 b	-	0.31 I	-
Magnesium (mg/L)	-	-	7.5 A	-
Nickel	≤ 56.2 b	-	4.1 A	-
Selenium	≤ 5.0	-	0.5 U	-
Silver	≤ 0.07	-	0.025 U	-
Zinc	≤ 129.2 b	-	77 A	-
Nutrients (mg/L)				
Ortho-phosphate	-	-	4.9 A	-
Total Phosphorus	-	-	5.2 A	-
Total Ammonia	-	-	0.73	-
Un-ionized Ammonia	≤ 0.02	-	≤ 0.02 c	-
Nitrate and Nitrite	-	-	19 f	-
Total Kjeldahl Nitrogen	-	-	2.8 A	-
Organic Nitrogen	-	-	2.07 c	-
Total Nitrogen	-	-	21.8 c	-
General Physical and Chemical Parameters				
Dissolved Oxygen (mg/L)	≥ 5.0	≥ 5.0 s	6.8	7.2
pH (SU)	6.0 - 8.5	6.0 - 8.5 s	6.7	6.6
Conductivity (µmhos/cm)	≤ 1,275	-	605	610
Temperature °C	-	-	20.3	20.8
Total Residual Chlorine (mg/L)	≤ 0.01	≤ 0.01 s	0.02 U	0.02 U
Total Suspended Solids (mg/L)	-	≤ 60 s	6 Ip	-
CBOD, 5 day (mg/L), N - inhibited	-	≤ 60 s	7.6 Lp	-
Flow (MGD)	-	0.9 a	0.0904 a	-
Hardness (mg $CaCO_3$)	-	-	109.29 c	-
Microbiology (Number of counts/100ml)				
Fecal Coliforms	800 s	800 s	7 AB*	-

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
f - Analyte was detected in both sample and field blank
p - Permit limit is based on an 8-hour flow proportional composite sample. All other permit limits are for grab samples.
s - Single sample
A - Value reported is the mean of two or more determinations
B - Results based on colony counts outside the acceptance range
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J - Estimated value
L - Actual value is known to be greater than value given
U - Material analyzed for but not detected; value reported is the method detection limit
* Analysis performed by FDEP Northeast District Laboratory

Appendix A. Chain of Custody form

NEDFS-01-06
1/19/07

Department of Environmental Protection Northeast District Field Sheet

Sample Source: Comp Blanks RQ#: 2007-03-26-22 Date 3-26-07 Page 1 of 1

Meter # 2 Acid Kit# 1 Ortho Kit # 2 Sampling Team

LAB ID #: Site Name: Equipment Blank Storet #: NA Measured By: TLC Matrix***: DI

Time	Temp °C	Cond µohm cm⁻¹	Sal %	pH s.u.	DO mg/L	DO Sat %	Secchi m	WTR V ft/sec	Tide Ebb/Fld,LS/HS	Total Depth	Sample Depth
10:00	—	—	—	—	—	—	—	-	—	—	-

Mode: ☐ Wading ☐ Shore ☐ Gas Motor ☐ Canoe ☐ Bridge ☐ Dock Equipment: ☑ Grab ☐ Horizontal Sampler ☐ Pole Sampler SP

Parameters / Method	Preserve*	Suite**	Initials
Preserved Nutrients: ☐ N/A ☐ All ☑ TKN ☐ NO_2-NO_3 ☐ NH_3 ☐ TOC ☐ TP	☐ Ice ☐ H_2SO_4 ☐ pH<2	B	TK
Filtered Nutrients: ☐ N/A ☑ oP ☐ Other: _____	☐ Ice ☐ 0.45µm flt	B	SP
BOD: ☑ N/A ☐ CBOD-Inhb ☐ BOD-Unin	☐ Ice		
Chlorophyll: ☑ N/A ☐ CHL-PPTN-W	☐ Ice		
Physical/Aggregate Properties: ☐ N/A ☐ All ☑ TSS ☐ Turbidity ☐ W-Cl-IC ☐ W-F ☐ W-SO_4-IC ☐ Color ☐ TDS ☑ Alk	☐ Ice	D	TK
Metals: ☐ N/A ☐ W-ICP ☐ W-FIAS ☑ W-ICPMS ☑ W-ICP-Tr	☐ HNO_3	B	TB
AGP/Other: ☑ N/A ☐ AA-AGP ☐ AA-Lim-Nut ☐ Other	☐ Ice		
Micro: ☑ N/A ☐ All ☐ T Coli ☐ F Coli	☐ Ice		
Comments and conditions:			

LAB ID #: Site Name: Camp Blanding WWTP Storet #: — Measured By: TLC Matrix***: Waste Water EA

Time	Temp °C	Cond µohm cm⁻¹	Sal %	pH s.u.	DO mg/L	DO Sat %	Secchi m	WTR V ft/sec	Tide Ebb/Fld,LS/HS	Total Depth	Sample Depth
1020	20.31	605	.23	6.67	6.84	75.8	—	—	—	-	1.0

Mode: ☐ Wading ☑ Shore ☐ Gas Motor ☐ Canoe ☐ Bridge ☐ Dock Equipment: ☑ Grab ☐ Horizontal Sampler ☐ Pole Sampler _____

Parameters / Method	Preserve*	Suite**	Initials
Preserved Nutrients: ☐ N/A ☑ All ☐ TKN ☐ NO_2-NO_3 ☐ NH_3 ☐ TOC ☐ TP	☐ Ice ☐ H_2SO_4 ☐ pH <2		
Filtered Nutrients: ☐ N/A ☐ oP ☐ Other: _____	☐ Ice ☐ 0.45µm flt		
BOD: ☐ N/A ☑ CBOD-Inhb ☐ BOD-Unin	☐ Ice		
Chlorophyll: ☐ N/A ☑ CHL-PPTN-W	☐ Ice		
Physical/Aggregate Properties: ☐ N/A ☐ All ☑ TSS ☐ Turbidity ☐ W-Cl-IC ☐ W-F ☐ W-SO_4-IC ☐ Color ☐ TDS ☑ Alk	☐ Ice		
Metals: ☐ N/A ☐ W-ICP ☐ W-FIAS ☑ W-ICPMS ☑ W-ICP-Tr	☐ HNO_3		
AGP/Other: ☐ N/A ☑ AA-AGP ☐ AA-Lim-Nut ☐ Other	☐ Ice		
Micro: ☐ N/A ☐ All ☐ T Coli ☑ F Coli	☐ Ice		
Comments and conditions:			

LAB ID #: Site Name: Storet #: Measured By: Matrix***:

Time	Temp °C	Cond µohm cm⁻¹	Sal %	pH s.u.	DO mg/L	DO Sat %	Secchi m	WTR V ft/sec	Tide Ebb/Fld,LS/HS	Total Depth	Sample Depth

Mode: ☐ Wading ☐ Shore ☐ Gas Motor ☐ Canoe ☐ Bridge ☐ Dock Equipment: ☐ Grab ☐ Horizontal Sampler ☐ Pole Sampler _____

Parameters / Method	Preserve*	Suite**	Initials
Preserved Nutrients: ☐ N/A ☐ All ☐ TKN ☐ NO_2-NO_3 ☐ NH_3 ☐ TOC ☐ TP	☐ Ice ☐ H_2SO_4 ☐ pH<2		
Filtered Nutrients: ☐ N/A ☐ oP ☐ Other: _____	☐ Ice ☐ 0.45µm flt		
BOD: ☐ N/A ☐ CBOD-Inhb ☐ BOD-Unin	☐ Ice		
Chlorophyll: ☐ N/A ☐ CHL-PPTN-W	☐ Ice		
Physical/Aggregate Properties: : ☐ N/A ☐ All ☐ TSS ☐ Turbidity ☐ W-Cl-IC ☐ W-F ☐ W-SO_4-IC ☐ Color ☐ TDS ☐ Alk	☐ Ice		
Metals: ☐ N/A ☐ W-ICP ☐ W-FIAS ☐ W-ICPMS ☐ W-ICP-Tr	☐ HNO_3		
AGP/Other: ☐ N/A ☐ AA-AGP ☐ AA-Lim-Nut ☐ Other	☐ Ice		
Micro: ☐ N/A ☐ All ☐ T Coli ☐ F Coli	☐ Ice		
Comments and conditions:			

4 Dunns 9:10 32707 J.D

*Preservatives: 1mL added per 500 mL sample unless otherwise noted; iced within 15 minutes ** J: samples run in Jacksonville Lab
***Matrix: SWF=Surface Water, Fresh SWS=Surface Water, Salt GW=Ground Water Sed=Sediment Other=Write In

Relinquished:	Date/time 3-26-07	Received: Chem Lab	☐ <6°C ☐ on-ice ☐ <2 pH
Relinquished:	Date/time 1300	Received: [illegible] 3-27-07 8:45	Shipping: DHC

NOT Central Laboratory

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ-2007-03-12-09
SAN MARCO

Customer: NE-DIST
Project ID: SMP
PMAS:

Requester: Thomas Kallemeyn
Collected By: Tom Kallem
Sampling Agency: NFD

Field Report Prepared By: Tom Kallem
Send Final Report To Lee Banks or Tom Kallemeyn

Lab ID *	Location	Collection (begin)	Collection (end)	Bottle Group(s)**
	Tox Comp Blank	☐ Comp ☐ Grab Date 3-26-07 Time 13:25 ~~Eastern~~ Central	Date Time Eastern Central	C
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L) 6.84	Storet Station Number
	Matrix (Include type e.g. Salt, Fresh, etc) eff	Temp (C) 23.31	pH 6.67	Sample Depth 0.3 ☐ m ☒ ft
	Latitude o ' " .	Longitude o ' " .	Comments	605 ☐ Salinity (PPTh) ☑ Sp Conductance (umho/cm) NPDES Number
			Tox 24 Residual Chlorine 0.01	

Lab ID *	Location	Collection (begin)	Collection (end)	Bottle Group(s)**
	Tox Comp Blank	☐ Comp ☑ Grab Date 3-26-07 Time 1500 ~~Eastern~~ Central	Date Time Eastern Central	C
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L) 7.14	Storet Station Number
	Matrix (Include type e.g. Salt, Fresh, etc) Eff	Temp (C) 23.91	pH 6.59	Sample Depth 0.4 ☐ m ☒ ft
	Latitude o ' " .	Longitude o ' " .	Comments	610 ☐ Salinity (PPTh) ☑ Sp Conductance (umho/cm) NPDES Number
			Tox 24 Residual chlorine 0.01	

Lab ID *	Location	Collection (begin)	Collection (end)	Bottle Group(s)**
		☐ Comp ☐ Grab Date Time Eastern Central	Date Time Eastern Central	
	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
	Latitude o ' " .	Longitude o ' " .	Comments	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm) NPDES Number

Lab ID *	Location	Collection (begin)	Collection (end)	Bottle Group(s)**
		☐ Comp ☐ Grab Date Time Eastern Central	Date Time Eastern Central	
	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
	Latitude o ' " .	Longitude o ' " .	Comments	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm) NPDES Number

Relinquished By:	Date/Time	Shipping Method:	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
	3-26-07 16:30	DHL		3/27/07 08:45				

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

FDEP Biology Laboratory - Acute Screen 4/24 Bioassay Bench Sheets

Facility: Camp Blanding WWTF

Address: Route #1. Box 465

City: Starke County: Clay

Contact/District: Northeast / Joseph Emery

NPDES Permit #: FL 0022853

LIMS Job #: TLH-2007-03-27-09 LIMS Sample #: 996136

Lims Data Entry: 4-13-07 MF Data Entry Verification: 4/13/07 JO

Sample Collection: Date: 3.26.07 Time: 10:20

Hold Time Start: Date: 3.26.07 Time: 10:20

Sample: 1 of 2

Comments:
Due to discharge limitations only 2 of 4 scheduled samples were collected, MF 3-27-07

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.
Light Intensity : 50 - 100 ft. candles.
Photoperiod : 16 hours light 8 hours dark.

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 26.0 max 26.4 mean 26.2
Incubator # ____ min ____ max. ____ mean ____
Room B246 min 25.1 max 26.7 mean 25.9

Investigators' Signatures

James Daniels
Bruce Boyd
Marshall Faircloth
Patsy Vickers
Mark Wellendorf
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 Tom Kallenbach	Verified by
Field Total Residual Cl_2 (mg/L):	N/A	N/A	N/A	N/A	N/A	0.01	Hach	~~J Emery~~	MF
Lab Total Residual Cl_2 (mg/L):	<0.03	<0.03				<0.03	HACH	BA	PPV
Alkalinity (mg/L as $CaCO_3$):	79	136				34	HACH	PPV	BA
Hardness (mg/L as $CaCO_3$):	100	147				120	HACH	PPV	BA
Total Ammonia (mg/L as N):	<0.017	<0.017				0.391	DENVER	MF	BA
Salinity (ppth):	<1	<1				<1	YSI / (Mettler)	JO	BA

MF incorrectly initialed for JE - MF 3-28-07

V 2.0 4/12/05

FDEP Biology Laboratory - Bioassay Survival Bench Sheet

LIMS Sample #: 996136 Test #: 1/2 SOP#:TA 07 01 **Test Started:** Date 3-27-07 Time: 12:45

Organism/Batch/Age: C.dubia/12-06/<24hrs **Test Ended:** Date 3-31-07 Time: 1100

Chamber/Test Volume: 30 / 20 ml Diluent/ Batch: DMW / 3-20-07

Food/Batch: YCT 1-1-07 P.sub 1-07 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	5	5	5
	B	B	5	5	5	5	5	5
	C	C	5	5	5	5	5	3 (2d)
	D	D	5	5	5	5	5	5
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:	BA	JD	JD	JD	JD	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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000002

Appendix B. (continued)

FDEP Biology Laboratory - Bioassay Survival Bench Sheet

LIMS Sample #: 996136 Test #: 2A-2 SOP#:TA 07 02 Test Started: Date 3.27.07 Time: 1230

Organism/Batch/Age: Cleeds/3.22.07/12days Test Ended: Date 3-31-07 Time: 1100

Chamber/Test Volume: 1000 / 500 ml Diluent/ Batch: Well H2O / 3.26.07

Food/Batch: YCT – P.sub – Artemia 0hr 33-07 24hr – 48hr 35-07 72hr – Artemia Lot# 651-536-90

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	A1	5	5	5	5	5	5
	B	A2	5	5	5	5	5	5
	C	A3	5	5	5	5	5	5
	D	A4	5	5	5	5	5	5
100%	A	A5	5	5	5	5	5	5
	B	A6	5	5	5	5	5	5
	C	A7	5	5	5	5	5	5
	D	A8	5	5	5	5	5	5
Loaded/Verified by: JD/BA		Checked by:	MF	JD	JD	JD	JD	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: 0% 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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000003

FDEP Biology Laboratory - Bioassay Parameter Bench Sheet

LIMS Sample # : 996136 **Test #:** 1 of 2

TEST SOP #: TA07_01 **Test Species:** (Ceriodaphnia dubia) *Cyprinella leedsi* *Pimephales promelas* *Americamysis bahia* *Menidia beryllina* Other:_____

Concentration (Ctl)	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	M		M	M		M
pH (S.U.)	8.1		8.1	8.1		8.0
Temperature °C	24.9		24.0	24.7		24.2
Dissolved Oxygen mg/L	7.9		7.7	7.4		7.8
Conductivity ~~µmhos~~ mmhos	187		274	177		209
(initials) Measured by:	JD		JD	JD		MF
(initials) Recorded by:	JD		JD	JD		MF

Comments:

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.)	6.9		7.9	6.9		7.9
Temperature °C	25.8		24.0	25.1		24.3
Dissolved Oxygen mg/L	7.4		7.7	7.0		7.8
Conductivity (µmhos) mmhos	602		733	606		695
(initials) Measured by:	JD		JD	JD		MF
(initials) Recorded by:	JD		JD	JD		MF

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:

V 2.0 2/24/04

FDEP Biology Laboratory - Bioassay Parameter Bench Sheet

LIMS Sample # : 4961360 **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.)	7.7	8.2	8.1	8.0	8.1	8.1
Temperature °C	24.9	24.9	24.6	24.7	24.3	25.1
Dissolved Oxygen mg/L	7.9	7.1	7.6	8.0	6.7	7.1
Conductivity ~~µmhos~~ mmhos	262	290	275	264	278	283
(initials) Measured by:	JD	JD	JD	PPV	JD	MF
(initials) Recorded by:	JD	JD	JD	PPV	JD	MF

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.)	6.9	7.5	7.5	6.9	7.3	7.5
Temperature °C	25.9	24.7	24.6	24.6	24.5	25.0
Dissolved Oxygen mg/L	7.3	6.4	7.0	7.8	5.9	7.0
Conductivity ~~µmhos~~ mmhos	605	617	633	604	640	648
(initials) Measured by:	JD	JD	JD	PPV	JD	MF
(initials) Recorded by:	JD	JD	JD	PPV	JD	MF

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:

FDEP Biology Laboratory - Acute Screen 4/24 Bioassay Bench Sheets

Facility: Camp Blanding WWTF

Address: Route #1, Box 465

City: Starke County: Clay

Contact/District: Northeast / Joseph Eliedy

NPDES Permit #: FL0022853

LIMS Job #: TLH-2007-03-27-09 LIMS Sample #: 996137

Lims Data Entry: 4-13-07 Data Entry Verification: 4.13.07 JD

Sample Collection: Date: ~~3.26.07~~ 3.27.07 Time: 1500

Hold Time Start: Date: 3.26.07 Time: 1500

Sample: 2 of 12

Comments:
Due to discharge limitations only 2 of 4 scheduled samples were collected on 3-27-07

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

Test 1 validation:
Control survival ≥90%: (Yes) No
Temperature Range ≤3°C: (Yes) No
Test 1: SOP TA 07_ 01

Test 2 validation:
Control survival ≥90%: (Yes) No
Temperature Range ≤3°C: (Yes) No
Test 2: SOP TA 07_ 02

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)

Investigators' Signatures
James Daniels
Buddy Atkinson
Patsy Vichaikul
Marshall Faircloth

Nicki Wellendorf
REVIEWER

Water Quality Parameters	Original Sample	Method	Measured by	Verified by
Field Total Residual Cl_2 (mg/L):	0.01	Hach	I Emery (H)	MF
Lab Total Residual Cl_2 (mg/L):	<0.03	HACH	BA	PDV
Alkalinity (mg/L as $CaCO_3$):	46	HACH	PDV	BA
Hardness (mg/L as $CaCO_3$):	130	HACH	PDV	BA
Total Ammonia (mg/L as N):	0.316	DENVER	MF	BA
Salinity (ppth):	<1	YSI / (Mettler)	JD	BA

A Tom Kalb MF 3.28.07

V 2.0 4/12/05

Appendix B. (continued)

FDEP Biology Laboratory - Bioassay Survival Bench Sheet

LIMS Sample #: 426137 Test #: 12 SOP#:TA 07 01 Test Started: Date 3-27-07 Time: 12:50
Organism/Batch/Age: C.dubia/12-07/<24hrs Test Ended: Date 3-31-07 Time: 1100
Chamber/Test Volume: 30/BR 20 ml Diluent/ Batch: DMW/ 3-20-07
Food/Batch: YCT 1-7-07 P.sub 1-07 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	BR 5	5	5	5	5	5
	B	B	5	5	5	5	5	4 ID
	C	C	5	5	5	5	5	4 ID
	D	D	5	5	5	5	5	5
100%	A	A	5	5	5	5	5	2 3D
	B	B	5	5	5	5	5	2 3D
	C	C	5	5	5	5	4 1D	1 3D
	D	D	5	5	4 1D	4	3 2D	2 1D
Loaded/Verified by: BR/ JD	Checked by:		BR	JD	JD	JD	JD	RF

m = missing d = dead BR/AR = Before/After Renewal
Test Results:
Screening Tests: Report LC50 as >100%, =100%, or <100%.
% mortality in 100% sample: 65% LC50: <100%
If Calculated: 95% CI_____ Method_____
Substitue highest test concentration used if other than 100% (example: Ocean outfall tested at 30% concentration).

Comments:

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Appendix B. (continued)

FDEP Biology Laboratory - Bioassay Survival Bench Sheet

LIMS Sample #: 996137 Test #: 2/2 SOP#:TA 07 02 Test Started: Date 3.27.07 Time: 12:30
Organism/Batch/Age: Cledsi Test Ended: Date 3-31-07 Time: 1100
Chamber/Test Volume: 1000 / 500 ml Diluent/ Batch: Vell H2O / 3.26.07
Food/Batch: YCT — P.sub — Artemia 0hr 3.3-07 24hr — 48hr 3.5-07 72hr — Artemia Lot# 631-536-90
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	A9	5	5	5	5	5	5
	B	A10	5	5	5	5	5	5
	C	A11	5	5	5	5	5	5
	D	A12	5	5	5	5	5	5
100%	A	A13	5	5	5	5	1 40	1
	B	A14	5	5	5	5	1 40	1
	C	A15	5	5	5	5	2 3D	2
	D	A16	5	5	5	5	2 3D	2
						5 JD		
Loaded/Verified by: JD / BA		Checked by:	mF	JD	JD	JD	JD	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: 70% 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 # : 996137 Test #: 1 of 2

TEST SOP #: TA07_01 Test Species: (Ceriodaphnia dubia) *Cyprinella leedsi* *Pimephales promelas* *Americamysis bahia* *Menidia beryllina* Other:_____

Concentration 4.1	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	M		M	M		M
pH (S.U.)	8.2		8.1	8.1		8.1
Temperature °C	24.4		24.0	25.1		24.1
Dissolved Oxygen mg/L	8.1		6.5	7.9		7.8
Conductivity (µmhos) mmhos	189		309	171		211
(initials) Measured by:	JD		JD	JD		MF
(initials) Recorded by:	JD		JD	JD		MF

Comments:

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.)	6.4		7.4	6.4		6.6
Temperature °C	24.7		24.0	25.4		24.3
Dissolved Oxygen mg/L	6.7		7.6	7.1		8.2
Conductivity (µmhos) mmhos	703		903	711		839
(initials) Measured by:	JD		JD	JD		MF
(initials) Recorded by:	JD		JD	JD		MF

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:

V 2.0 2/24/04

FDEP Biology Laboratory - Bioassay Parameter Bench Sheet

LIMS Sample # : 996137 **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.)	7.8	8.2	8.2	8.1	8.1	8.2
Temperature °C	24.4	25.0	24.8	24.4	24.9	25.1
Dissolved Oxygen mg/L	7.9	7.1	7.5	7.9	6.5	6.8
Conductivity ~~µmhos~~ mmhos	273	320	280	265	284	282
(initials) Measured by:	JD	JD	JD	PDV	JD	MF
(initials) Recorded by:	JD	JD	JD	PDV	JD	MF

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.)	6.4	6.8	7.0	6.1	6.1	6.0
Temperature °C	24.7	25.1	24.9	24.7	24.8	25.2
Dissolved Oxygen mg/L	7.0	5.6	7.1	5.1	5.9	7.1
Conductivity ~~µmhos~~ mmhos	670	771	715	707	740	761
(initials) Measured by:	JD	JD	JD	PDV	JD	MF
(initials) Recorded by:	JD	JD	JD	PDV	JD	MF

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

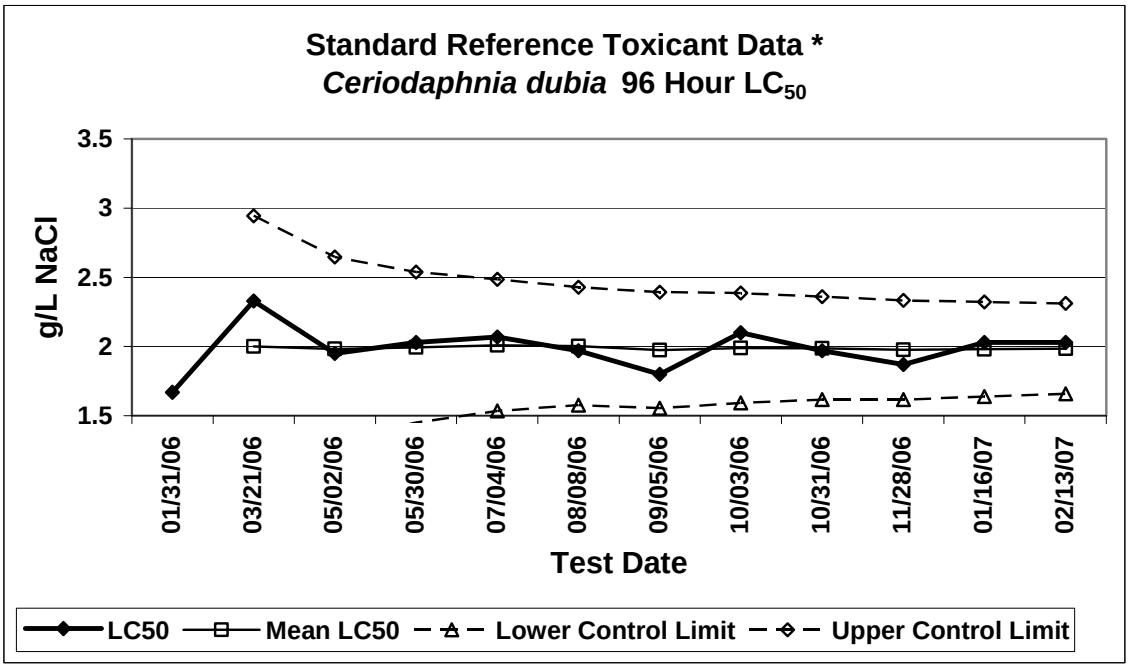
Florida Department of Environmental Protection
Bureau of Laboratories

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

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

CV = 8.04
EPA reference 75th quartile CV = 29%



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

Appendix C. (continued)

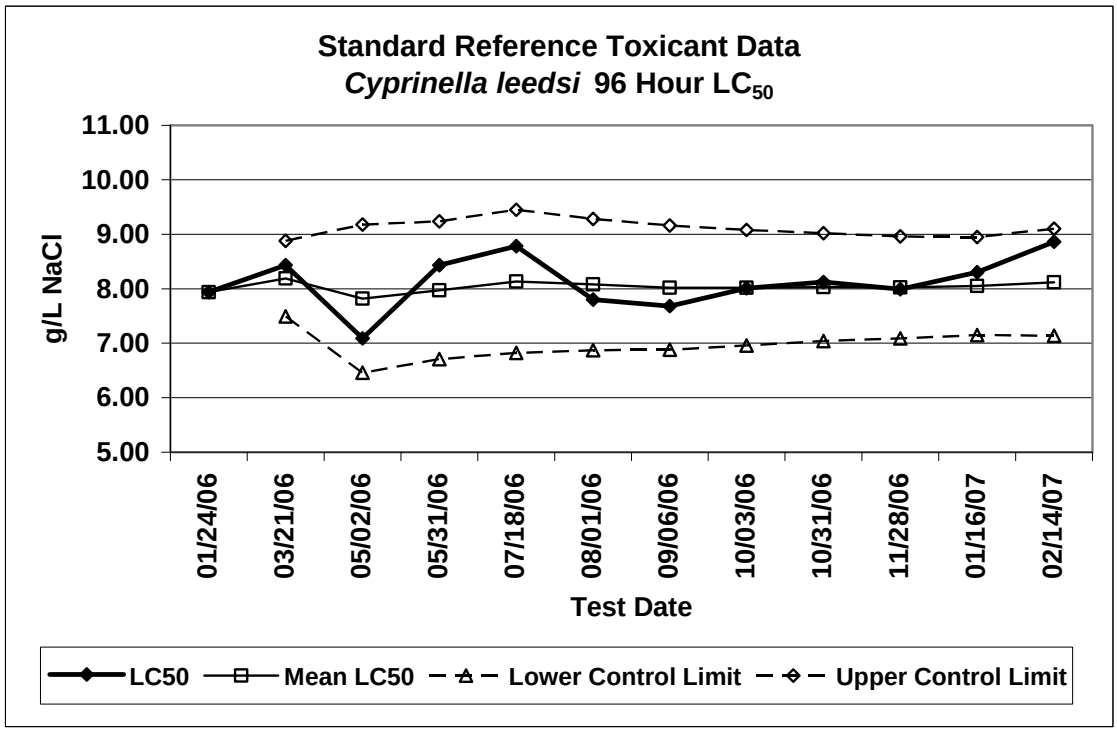
Florida Department of Environmental Protection
Bureau of Laboratories

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	0.47	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

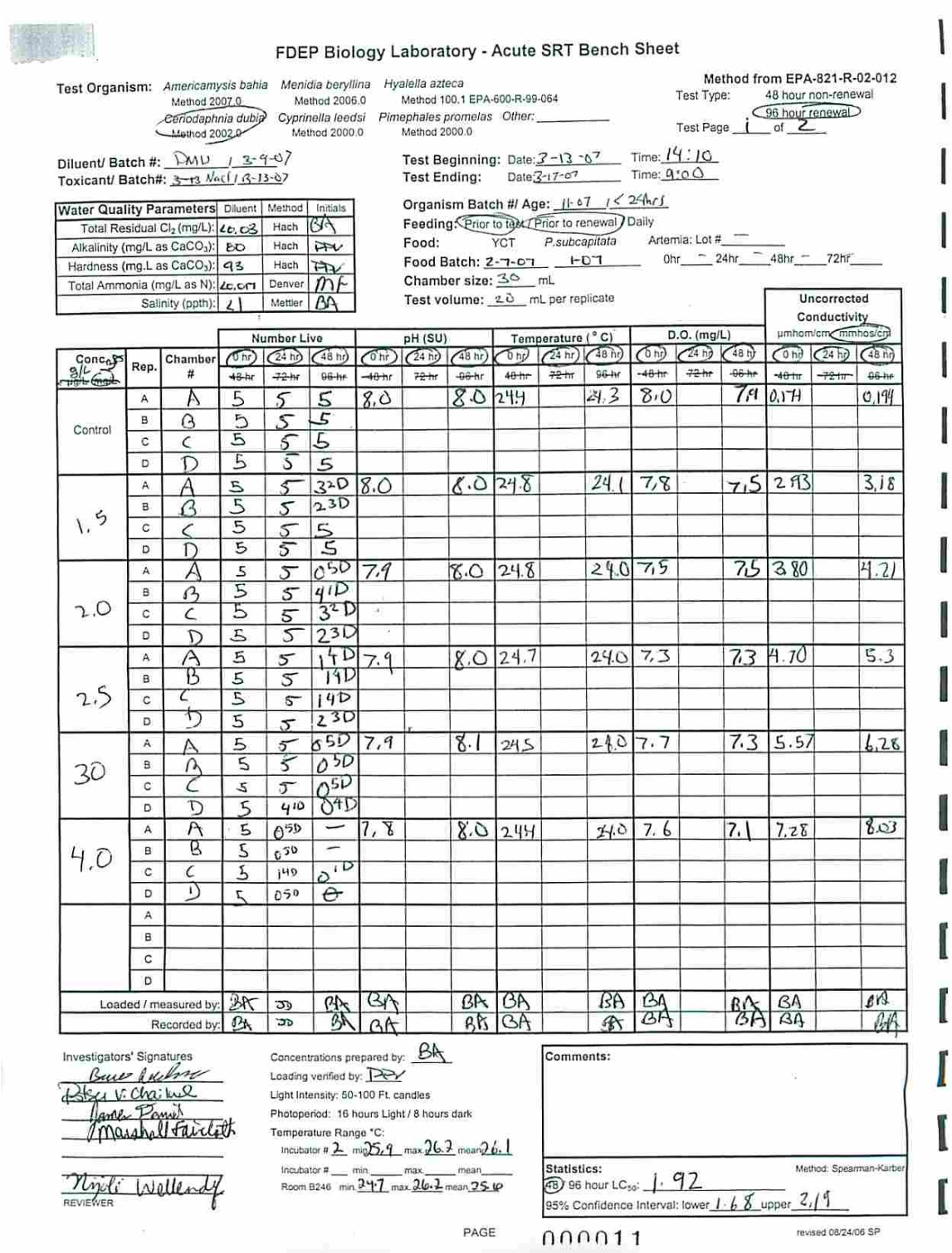
Lower Confidence Limit = mean - 2 * Std Dev
Upper Confidence Limit = mean + 2 * Std Dev

CV = 6.02
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 1 3-9-07
Toxicant/ Batch#: 3-13 NaCl 1 3-13-07

Test Beginning: Date: 3-13-07 Time: 14:10
Test Ending: Date: 3-17-07 Time: 9:00

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl_2 (mg/L):	<0.03	Hach	BA
Alkalinity (mg/L as $CaCO_3$):	80	Hach	[illegible]
Hardness (mg.L as $CaCO_3$):	93	Hach	[illegible]
Total Ammonia (mg/L as N):	<0.05	Denver	MF
Salinity (ppth):	21	Mettler	BA

Organism Batch #/ Age: 11-07 1 < 24hrs
Feeding: Prior to test / Prior to renewal / Daily
Food: YCT *P.subcapitata* Artemia: Lot #
Food Batch: 2-7-07 1-07 0hr 24hr 48hr 72hr
Chamber size: 30 mL
Test volume: 20 mL per replicate

Conc g/L	Rep.	Chamber #	Number Live 0 hr / 24 hr / 48 hr	pH (SU) 0 hr / 24 hr / 48 hr	Temperature (°C) 0 hr / 24 hr / 48 hr	D.O. (mg/L) 0 hr / 24 hr / 48 hr	Uncorrected Conductivity µmhom/cm mmhos/cm 0 hr / 24 hr / 48 hr
Control	A	A	5 / 5 / 5	8.0 / 8.0	24.4 / 24.3	8.0 / 7.9	0.17 / 0.19
	B	B	5 / 5 / 5				
	C	C	5 / 5 / 5				
	D	D	5 / 5 / 5				
1.5	A	A	5 / 5 / 3 2D	8.0 / 8.0	24.8 / 24.1	7.8 / 7.5	2.93 / 3.18
	B	B	5 / 5 / 2 3D				
	C	C	5 / 5 / 5				
	D	D	5 / 5 / 5				
2.0	A	A	5 / 5 / 0 5D	7.9 / 8.0	24.8 / 24.0	7.5 / 7.5	3.80 / 4.21
	B	B	5 / 5 / 4 1D				
	C	C	5 / 5 / 3 2D				
	D	D	5 / 5 / 2 3D				
2.5	A	A	5 / 5 / 1 4D	7.9 / 8.0	24.7 / 24.0	7.3 / 7.3	4.70 / 5.3
	B	B	5 / 5 / 1 4D				
	C	C	5 / 5 / 1 4D				
	D	D	5 / 5 / 2 3D				
30	A	A	5 / 5 / 0 5D	7.9 / 8.1	24.5 / 24.0	7.7 / 7.3	5.57 / 6.28
	B	B	5 / 5 / 0 5D				
	C	C	5 / 5 / 0 5D				
	D	D	5 / 4 1D / 0 4D				
4.0	A	A	5 / 0 5D / —	7.8 / 8.0	24.4 / 24.0	7.6 / 7.1	7.28 / 8.03
	B	B	5 / 0 5D / —				
	C	C	5 / 1 4D / 0 4D				
	D	D	5 / 0 5D / 0				
	A						
	B						
	C						
	D						
Loaded / measured by:			BA / DD / BA	BA / BA	BA / BA	BA / BA	BA / BA
Recorded by:			BA / DD / BA	BA / BA	BA / BA	BA / BA	BA / BA

Investigators' Signatures
Bruce Buchanan
Ritsy V. Chairul
Jamie Pamel
Marshall Faircloth
Nyeli Wellendy
REVIEWER

Concentrations prepared by: BA
Loading verified by: DD
Light Intensity: 50-100 Ft. candles
Photoperiod: 16 hours Light / 8 hours dark
Temperature Range °C:
Incubator # 2 min. 25.9 max. 26.7 mean 26.1
Incubator # ___ min. ___ max. ___ mean ___
Room B246 min. 24.7 max. 26.2 mean 25.6

Comments:

Statistics: Method: Spearman-Karber
48 96 hour LC_{50}: 1.92
95% Confidence Interval: lower 1.68 upper 2.19

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revised 08/24/06 SP

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 #: 20% DMW/ 39-07
Toxicant/ Batch#: NaCl / 3-13-07

Test Beginning: Date: 3/13/07 Time: 1410
Test Ending: Date: 3-17-07 Time: 9:00

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl_2 (mg/L):	<0.03	Hach	BA
Alkalinity (mg/L as $CaCO_3$):	80	Hach	PP
Hardness (mg.L as $CaCO_3$):	93	Hach	PP
Total Ammonia (mg/L as N):	<0.017	Denver	MF
Salinity (ppth):	<1	Mettler	BA

Organism Batch #/ Age: 11-07 / 12 hrs
Feeding: Prior to test / Prior to renewal / Daily
Food: YCT / P.subcapitata Artemia: Lot #: —
Food Batch: 2-7-01 / 1-07 0hr — 24hr — 48hr — 72hr —
Chamber size: 50 mL
Test volume: 20 mL per replicate

Conc. ‰	Rep.	Chamber #	Number Live 0 hr	Number Live 24 hr	Number Live 48 hr	pH (SU) 0 hr	pH (SU) 24 hr	pH (SU) 48 hr	Temperature (°C) 0 hr	Temperature (°C) 24 hr	Temperature (°C) 48 hr	D.O. (mg/L) 0 hr	D.O. (mg/L) 24 hr	D.O. (mg/L) 48 hr	Uncorrected Conductivity µmhom/cm (mmhos/cm) 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	A	5	5	5	8.2		8.0	24.7		24.0	7.2		7.5	0180		0.210
	B	B	5	5	4 10												
	C	C	5	4 10	4												
	D	D	5	5	5												
1.5	A	A	3	3	3	8.0		7.9	24.3		24.0	7.2		7.5	2.91		3.33
	B	B	2	2	2												
	C	C	5	4 10	3 10												
	D	D	5	2 20	2												
2.0	A	A	—	—	—	8.0		7.9	24.0		24.0	7.2		7.5	3.81		4.43
	B	B	4	0 10	—												
	C	C	3	1 20	1												
	D	D	2	0 20	—												
2.5	A	A	1	0 10	—	8.0	7.9	7.9 PPV	24.0	24.1	—	7.3	6.8	—	4.69	4.99	—
	B	B	1	0 10	—												
	C	C	1	0 10	—												
	D	D	2	0 20	—												
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	PP	PP	BA	PP	PP	BA	PP	PP	BA	PP	PP	BA	PP	PP
Recorded by:			BA	PP	PP	BA	PP	PP	BA	PP	PP	BA	PP	PP	BA	PP	PP

Investigators' Signatures
Peter Vichaikul
Brad Bolen
Marshall Faircloth
James Davis
Nicki Wellendorf
REVIEWER

Concentrations prepared by: BA
Loading verified by: PP
Light Intensity: 50-100 Ft. candles
Photoperiod: 16 hours Light / 8 hours dark
Temperature Range °C:
Incubator # 2 min 25.9 max 26.2 mean 26.1
Incubator # ___ min _____ max _____ mean _____
Room B246 min 24.7 max 26.2 mean 25.6

Comments:

Statistics: Method: Spearman-Karber
48 / 96 hour LC_{50}: 1.55
95% Confidence Interval: lower 1.38 upper 1.74

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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 1 of 2

Diluent/ Batch #: WELL / 3-13-07
Toxicant/ Batch#: NaCl / 3-14-07

Test Beginning: Date: 3/14/07 Time: 1215
Test Ending: Date: 3-18-07 Time: 1145

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl_2 (mg/L):	<0.03	Hach	BA
Alkalinity (mg/L as $CaCO_3$):	136	Hach	PPV
Hardness (mg.L as $CaCO_3$):	146	Hach	PPV
Total Ammonia (mg/L as N):	<0.017	Denver	MF
Salinity (ppth):	21	Mettler	BA

Organism Batch #/ Age: 3-13-07 / 12 days
Feeding: Prior to test / Prior to renewal / Daily
Food: YCT *P.subcapitata* Artemia: Lot #GSL-S36-90
Food Batch: — — 0hr 24 24hr — 48hr 31-07 72hr —
Chamber size: 1000 mL
Test volume: 500 mL per replicate

JD Uncorrected Conductivity (umhos/cm)

Conc. ppt	Rep.	Chamber #	Number Live 0 hr / 24 hr / 48 hr	pH (SU) 0 hr / 24 hr / 48 hr	Temperature (°C) 0 hr / 24 hr / 48 hr	D.O. (mg/L) 0 hr / 24 hr / 48 hr	Uncorrected Conductivity 0 hr / 24 hr / 48 hr
Control	A	C1	10 / 10 / 10	8.0 / / 8.2	24.6 / / 25.7	6.4 / / 6.5	0.274 / / 0.280
	B	C2	10 / 10 / 10	/ 8.0 /	/ 25.1 /	/ 7.5 /	/ 0.303 /
	C	~~JD~~					
	D						
6.0	A	C3	10 / 10 / 10	7.8 / / 8.1	24.3 / / 25.7	8.2 / / 7.2	11.1 / / 10.6
	B	C4	10 / 10 / 10	/ 8.0 /	/ 25.2 /	/ 7.2 /	/ 11.3 /
	C						
	D						
7.0	A	C5	10 / 8JD / 7JD	7.8 / / 8.1	24.2 / / 25.2	8.2 / / 7.3	11.4 / / 12.9
	B	C6	10 / 10 / 10	/ 8.0 /	/ 25.2 /	/ 7.1 /	/ 11.4 /
	C						
	D						
8.0	A	C7	10 / 6JD / 3JD	7.8 / / 8.1	24.0 / / 25.4	8.1 / / 7.3	14.3 / / 14.7
	B	C8	10 / 7JD / 6JD	/ 8.0 /	/ 25.2 /	/ 7.1 /	/ 14.0 /
	C						
	D						
9.0	A	C9	10 / 0JD / 0	7.8 / / 8.1	24.0 / /	8.2 / / 7.3	16.3 / / 16.4
	B	C10	10 / 1JD / 0JD	/ 8.0 /	/ 25.2 / 24.7	/ 7.0 /	/ 16.5 /
	C						
	D						
10.0	A	C11	10 / 0JD / —	7.7 / / —	24.0 / / —	8.3 / / —	17.1 / / —
	B	C12	10 / 0JD / —	/ 7.9 /	/ 25.4 /	/ 6.6 /	/ 17.1 /
	C						
	D						
	A						
	B						
	C						
	D						
Loaded / measured by:			PPV / JD / JD	JD / BA / JD	JD / JD / JD	JD / BA / JD	JD / BA / JD
Recorded by:			PPV / JD / JD	JD / BA / JD	JD / JD / JD	JD / BA / JD	JD / BA / JD

Investigators' Signatures
Jason Stanek
Patsy Livaniuk
Bart Adams
Marshall Faircloth
Mike Wellendorf
REVIEWER

Concentrations prepared by: PPV
Loading verified by: JD
Light Intensity: 50-100 Ft. candles
Photoperiod: 16 hours Light / 8 hours dark
Temperature Range °C:
Incubator # 2 min 25.7 max 26.2 mean 26.0
Incubator # ___ min. ___ max. ___ mean ___
Room B246 min 25.0 max 26.1 mean 25.6

Comments:
④ 8.0 - transcription error JD 3.14.07

Statistics: Method: Spearman-Karber
48/ 96 hour LC_{50}: 9.75
95% Confidence Interval: lower 7.47 upper 8.04

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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 13-13-07

Toxicant/ Batch#: NaCl 13-14-07

Test Beginning: Date: 3/14/07 Time: 1215

Test Ending: Date: 3/18/07 Time: 1145

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl_2 (mg/L):	0.03	Hach	BA
Alkalinity (mg/L as $CaCO_3$):	136	Hach	PPV
Hardness (mg.L as $CaCO_3$):	146	Hach	PPV
Total Ammonia (mg/L as N):	0.07	Denver	MF
Salinity (ppth):	<1	Mettler	BA

Organism Batch #/ Age: 3-13-07, 12 days

Feeding: Prior to test / Prior to renewal / Daily

Food: YCT — *P.subcapitata* — Artemia: Lot #GSL-S36-90

Food Batch: — — 0hr 3-14-07 24hr — 48hr 3-17-07 72hr —

Chamber size: 1000 mL

Test volume: 500 mL per replicate

Conc BR g/L ~~mg/L~~	Rep.	Chamber #	Number Live 0 hr	Number Live 24 hr	Number Live 48 hr	pH (SU) 0 hr	pH (SU) 24 hr	pH (SU) 48 hr	Temperature (°C) 0 hr	Temperature (°C) 24 hr	Temperature (°C) 48 hr	D.O. (mg/L) 0 hr	D.O. (mg/L) 24 hr	D.O. (mg/L) 48 hr	Uncorrected Conductivity µmhom/cm ~~mmhos/cm~~ 0 hr	Uncorrected Conductivity 24 hr	Uncorrected Conductivity 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	C1	10	10	10	8.1		8.2	24.1		25.3	7.7		7.1	0.361		0.298
	B	C2	10	10	10		7.9			24.0			5.6			0.283	
	C																
	D																
6.0	A	C3	10	10	10	8.0		7.7	24.1		24.9	7.4		5.5	10.4		10.9
	B	C4	10	8 2D	8		7.6			24.0			5.6			10.9	
	C																
	D																
7.0	A	C5	7	7	6 1D	8.0		7.7	24.4		25.2	7.7		4.8	12.3		12.8
	B	C6	10	10	10		7.6			24.5			5.6			12.2	
	C																
	D																
8.0	A	C7	3	2 1D	2	8.0		7.7	24.4		24.7	7.7		5.0	14.1		14.5
	B	C8	6	5 1D	5		7.6			24.2			5.7			14.1	
	C																
	D																
9.0	A	C9	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	B	C10	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	C																
	D																
10.0	A	C11	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	B	C12	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	C																
	D																
	A																
	B																
	C																
	D																
Loaded / measured by:			BA	BA	MF	JJ	PPV	MF	JJ	PPV	MF	JJ	PPV	MF	JJ	PPV	MF
Recorded by:			BA	BA	MF	JJ	PPV	MF	JJ	PPV	MF	JJ	PPV	MF	JJ	PPV	MF

Investigators' Signatures

Patsy Vichaikul

James Stanush

Marshall Faircloth

Brent Rodenhizer

Nicki Wetherington

REVIEWER

Concentrations prepared by: PPV

Loading verified by: JJ

Light Intensity: 50-100 Ft. candles

Photoperiod: 16 hours Light / 8 hours dark

Temperature Range °C:

Incubator # 7 min 25.7 max 26.2 mean 26.0

Incubator # ___ min ___ max ___ mean ___

Room B246 min 25.0 max 26.1 mean 25.6

Comments:

Statistics: Method: Spearman-Karber

48 / (96) hour LC_{50}: 7.60

95% Confidence Interval: lower 7.25 upper 7.97

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Appendix C. (continued)

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

DATE: 03/13/07 DURATION: 96 Hr. TOXICANT : NaCl
SPECIES: *Ceriodapnhia dubia*

RAW DATA: Concentration (g/l)	Number Exposed	Mortalities
0.00	20	2
1.50	20	10
2.00	20	19
2.50	20	20
3.00	20	20
4.00	20	20

SPEARMAN-KARBER TRIM: 44.44%

SPEARMAN-KARBER ESTIMATES: **LC50: 1.55**
95% LOWER CONFIDENCE: 1.38
95% UPPER CONFIDENCE: 1.74

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

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

DATE: 03/14/07 DURATION: 96 Hr. TOXICANT : NaCl
SPECIES: *Cyprinella leedsi*

RAW DATA: Concentration (g/L)	Number Exposed	Mortalities
0.00	20	0
6.00	20	2
7.00	20	4
8.00	20	13
9.00	20	20
10.00	20	20

SPEARMAN-KARBER TRIM: 10.00%

SPEARMAN-KARBER ESTIMATES: **LC50: 7.60**
95% LOWER CONFIDENCE: 7.25
95% UPPER CONFIDENCE: 7.97

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: 3/12/07

Shipped to: TSCP

P.O. No:

Species	Quantity	Age	Brood Number	Temperature	Salinity
Mysidopsis bahia	150+	3 Days	MSB070329	25°C	~30‰
Menidia beryllina	150+	11 Days	SS070301	25°C	~30‰
Cyprinella leedsi	150+	10 Days	CL070302	25°C	
Pimephales promelas	150+	8 Days	FM070304-1530	25°C	

Packed by: Frank Gary.

Shipped Via: FedEx

Notes: Hawaiian Marine Imports #713-680-1117
or HW Marinemix

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: 3/26/07

Shipped to: TSEP

P.O. No: _____

Species	Quantity	Age	Brood Number	Temperature	Salinity
Mysidopsis bahia	200+	5 Days	MBC-0311	25°C	~30‰
Menidia beryllina					
Cyprinella leedsi	250+	11 Days	CLC 70315	25°C	
Pimephales promelas					

Packed by: Frank Conaj

Shipped Via: FedEx

Notes: _____

Thank you for your order.

Frank Conaj

Appendix E. Chemical Analyses performed on the effluent from the FANG-Camp Blanding Wastewater Treatment Facility Outfall D-001, sampled on March 26, 2007.

Date Sampled	Field ID	Analysis Group	Component	Result	Qualifier	Units	MDL
3/26/2007 10:20	Effluent	AGP/LN	Algal Growth Potential	575		mg DryWt/L	0.3
3/26/2007 10:20	Effluent	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	7.6	L	mg/L	0.2
3/26/2007 10:20	Effluent	Chlorophyll/Grain Size/BOD	Chlorophyll-A, Monochromatic, Water	1.2	U	ug/L	1.2
3/26/2007 10:20	Effluent	Chlorophyll/Grain Size/BOD	Phaeophytin-A, Monochromatic, Water	2.1	U	ug/L	2.1
3/26/2007 10:20	Effluent	Toxicology	Bioassay-Acute-Screen-FW-C.dubia, LC50	100	L	LC50	
3/26/2007 10:20	Effluent	Toxicology	Bioassay-Acute-Screen-FW-Fish, LC50	100	L	LC50	
3/26/2007 15:00	Effluent	Toxicology	Bioassay-Acute-Screen-FW-C.dubia, LC50	100	K	LC50	
3/26/2007 15:00	Effluent	Toxicology	Bioassay-Acute-Screen-FW-Fish, LC50	100	K	LC50	
3/26/2007 10:20	Effluent	Metals	Aluminum	30	A	ug/L	4
3/26/2007 10:20	Effluent	Metals	Calcium	31.4	A	mg/L	0.02
3/26/2007 10:20	Effluent	Metals	Chromium	0.3	U	ug/L	0.3
3/26/2007 10:20	Effluent	Metals	Iron	92	A	ug/L	5
3/26/2007 10:20	Effluent	Metals	Magnesium	7.5	A	mg/L	0.005
3/26/2007 10:20	Effluent	Metals	Nickel	4.1	A	ug/L	1
3/26/2007 10:20	Effluent	Metals	Zinc	77	A	ug/L	3
3/26/2007 10:20	Effluent	Metals	Arsenic	0.92	I	ug/L	0.5
3/26/2007 10:20	Effluent	Metals	Cadmium	0.23	AJ	ug/L	0.05
3/26/2007 10:20	Effluent	Metals	Copper	8.44	A	ug/L	0.2
3/26/2007 10:20	Effluent	Metals	Lead	0.31	I	ug/L	0.2
3/26/2007 10:20	Effluent	Metals	Selenium	0.5	U	ug/L	0.5
3/26/2007 10:20	Effluent	Metals	Silver	0.025	U	ug/L	0.025
3/26/2007 10:20	Effluent	Nutrients	Alkalinity	49		mg CaCO3/L	0.65
3/26/2007 10:20	Effluent	Nutrients	Ammonia-N	0.73		mg N/L	0.01
3/26/2007 10:20	Effluent	Nutrients	NO2NO3-N	19		mg N/L	0.4
3/26/2007 10:20	Effluent	Nutrients	O-Phosphate-P	4.9	A	mg P/L	0.16
3/26/2007 10:20	Effluent	Nutrients	Kjeldahl Nitrogen	2.8	A	mg N/L	0.16
3/26/2007 10:20	Effluent	Nutrients	Total-P	5.2	A	mg P/L	0.2
3/26/2007 10:20	Effluent	Nutrients	TSS	6	I	mg/L	4
3/26/2007 10:20	Effluent	Pesticides	Alachlor	0.6	U	ug/L	0.6
3/26/2007 10:20	Effluent	Pesticides	Ametryn	0.05	UJ	ug/L	0.05
3/26/2007 10:20	Effluent	Pesticides	Atrazine	0.05	UJ	ug/L	0.05
3/26/2007 10:20	Effluent	Pesticides	Azinphos Methyl	0.2	U	ug/L	0.2

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Qualifier	Units	MDL
3/26/2007 10:20	Effluent	Pesticides	Bromacil	0.2	UJ	ug/L	0.2
3/26/2007 10:20	Effluent	Pesticides	Butylate	0.2	U	ug/L	0.2
3/26/2007 10:20	Effluent	Pesticides	Chlorpyrifos Ethyl	0.05	U	ug/L	0.05
3/26/2007 10:20	Effluent	Pesticides	Chlorpyrifos Methyl	0.1	U	ug/L	0.1
3/26/2007 10:20	Effluent	Pesticides	Diazinon	0.05	UJ	ug/L	0.05
3/26/2007 10:20	Effluent	Pesticides	Ethion	0.05	U	ug/L	0.05
3/26/2007 10:20	Effluent	Pesticides	Ethoprop	0.1	U	ug/L	0.1
3/26/2007 10:20	Effluent	Pesticides	Fenamiphos	0.2	U	ug/L	0.2
3/26/2007 10:20	Effluent	Pesticides	Fonofos	0.1	U	ug/L	0.1
3/26/2007 10:20	Effluent	Pesticides	Hexazinone	0.1	U	ug/L	0.1
3/26/2007 10:20	Effluent	Pesticides	Malathion	0.15	U	ug/L	0.15
3/26/2007 10:20	Effluent	Pesticides	Metalaxyl	0.25	UJ	ug/L	0.25
3/26/2007 10:20	Effluent	Pesticides	Metolachlor	0.5	U	ug/L	0.5
3/26/2007 10:20	Effluent	Pesticides	Metribuzin	0.1	UJ	ug/L	0.1
3/26/2007 10:20	Effluent	Pesticides	Mevinphos	0.2	U	ug/L	0.2
3/26/2007 10:20	Effluent	Pesticides	Naled	0.8	U	ug/L	0.8
3/26/2007 10:20	Effluent	Pesticides	Norflurazon	0.15	U	ug/L	0.15
3/26/2007 10:20	Effluent	Pesticides	Parathion Ethyl	0.15	U	ug/L	0.15
3/26/2007 10:20	Effluent	Pesticides	Parathion Methyl	0.1	U	ug/L	0.1
3/26/2007 10:20	Effluent	Pesticides	Phorate	0.05	U	ug/L	0.05
3/26/2007 10:20	Effluent	Pesticides	Prometryn	0.15	U	ug/L	0.15
3/26/2007 10:20	Effluent	Pesticides	Simazine	0.05	U	ug/L	0.05
3/26/2007 10:20	Effluent	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	1,2-Dichlorobenzene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	1,3-Dichlorobenzene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	1,4-Dichlorobenzene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	2,4,6-Trichlorophenol	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	2,4-Dichlorophenol	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	2,4-Dimethylphenol	10	U	ug/L	10
3/26/2007 10:20	Effluent	Priority Organic Pollutants	2,4-Dinitrophenol	16	U	ug/L	16
3/26/2007 10:20	Effluent	Priority Organic Pollutants	2,4-Dinitrotoluene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	2,6-Dinitrotoluene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	2-Chloronaphthalene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	2-Chlorophenol	1	U	ug/L	1

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Qualifier	Units	MDL
3/26/2007 10:20	Effluent	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1	U	ug/L	3.1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	2-Nitrophenol	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	3,3'-Dichlorobenzidine	42	UJ	ug/L	42
3/26/2007 10:20	Effluent	Priority Organic Pollutants	4,4'-DDD	1.6	U	ug/L	1.6
3/26/2007 10:20	Effluent	Priority Organic Pollutants	4,4'-DDE	1.6	U	ug/L	1.6
3/26/2007 10:20	Effluent	Priority Organic Pollutants	4,4'-DDT	1.6	U	ug/L	1.6
3/26/2007 10:20	Effluent	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	4-Chloro-3-methylphenol	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.1	U	ug/L	2.1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	4-Nitrophenol	16	U	ug/L	16
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Acenaphthene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Acenaphthylene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Aldrin	1.6	UJ	ug/L	1.6
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Anthracene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Benzidine	100	UJ	ug/L	100
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Benzo(a)anthracene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Benzo(a)pyrene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Benzo(b)fluoranthene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Benzo(g,h,i)perylene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Benzo(k)fluoranthene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.1	U	ug/L	3.1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	16	U	ug/L	16
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Butyl benzyl phthalate	5.2	U	ug/L	5.2
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Chrysene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Di-n-butyl phthalate	5.2	U	ug/L	5.2
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Di-n-octyl phthalate	1	UJ	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Dibenzo(a,h)anthracene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Dieldrin	1.6	U	ug/L	1.6
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Diethyl phthalate	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Dimethyl phthalate	52	U	ug/L	52
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Endosulfan I	4.2	U	ug/L	4.2
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Endosulfan II	4.2	U	ug/L	4.2

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Qualifier	Units	MDL
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Endosulfan sulfate	1.6	U	ug/L	1.6
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Endrin	1.6	UJ	ug/L	1.6
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Endrin aldehyde	4.2	U	ug/L	4.2
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Fluoranthene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Fluorene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Heptachlor	1.6	U	ug/L	1.6
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Heptachlor epoxide	1.6	U	ug/L	1.6
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Hexachlorobenzene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Hexachlorobutadiene	3.1	U	ug/L	3.1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.1	U	ug/L	3.1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Hexachloroethane	3.1	U	ug/L	3.1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Isophorone	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.1	U	ug/L	2.1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	N-Nitrosodimethylamine	2.1	U	ug/L	2.1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.1	U	ug/L	3.1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Naphthalene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Nitrobenzene	2.1	U	ug/L	2.1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Pentachlorophenol	3.1	U	ug/L	3.1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Phenanthrene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Phenol	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	Pyrene	1	U	ug/L	1
3/26/2007 10:20	Effluent	Priority Organic Pollutants	alpha-BHC	1.6	U	ug/L	1.6
3/26/2007 10:20	Effluent	Priority Organic Pollutants	beta-BHC	1.6	U	ug/L	1.6
3/26/2007 10:20	Effluent	Priority Organic Pollutants	delta-BHC	1.6	U	ug/L	1.6
3/26/2007 10:20	Effluent	Priority Organic Pollutants	gamma-BHC	1.6	U	ug/L	1.6
3/26/2007 10:20	Effluent	Field Measurement	Dissolved Oxygen	6.84		mg/L	
3/26/2007 10:20	Effluent	Field Measurement	Specific Conductance	605		umhos/cm	
3/26/2007 10:20	Effluent	Field Measurement	Temperature	20.31		C	
3/26/2007 10:20	Effluent	Field Measurement	pH	6.67		SU	
3/26/2007 15:00	Effluent	Field Measurement	Dissolved Oxygen	7.16		mg/L	
3/26/2007 15:00	Effluent	Field Measurement	Specific Conductance	610		umhos/cm	
3/26/2007 15:00	Effluent	Field Measurement	Temperature	20.81		C	
3/26/2007 15:00	Effluent	Field Measurement	pH	6.59		SU	

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Qualifier	Units	MDL
3/26/2007 10:00	Equipment Blank	Metals	Aluminum	4	U	ug/L	4
3/26/2007 10:00	Equipment Blank	Metals	Calcium	0.042	U	mg/L	0.042
3/26/2007 10:00	Equipment Blank	Metals	Chromium	0.3	U	ug/L	0.3
3/26/2007 10:00	Equipment Blank	Metals	Iron	5	U	ug/L	5
3/26/2007 10:00	Equipment Blank	Metals	Magnesium	0.005	U	mg/L	0.005
3/26/2007 10:00	Equipment Blank	Metals	Nickel	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Metals	Zinc	3	U	ug/L	3
3/26/2007 10:00	Equipment Blank	Metals	Arsenic	0.5	U	ug/L	0.5
3/26/2007 10:00	Equipment Blank	Metals	Cadmium	0.05	U	ug/L	0.05
3/26/2007 10:00	Equipment Blank	Metals	Copper	0.2	U	ug/L	0.2
3/26/2007 10:00	Equipment Blank	Metals	Lead	0.2	U	ug/L	0.2
3/26/2007 10:00	Equipment Blank	Metals	Selenium	0.5	U	ug/L	0.5
3/26/2007 10:00	Equipment Blank	Metals	Silver	0.025	U	ug/L	0.025
3/26/2007 10:00	Equipment Blank	Nutrients	Ammonia-N	0.01	U	mg N/L	0.01
3/26/2007 10:00	Equipment Blank	Nutrients	NO2NO3-N	0.008	I	mg N/L	0.004
3/26/2007 10:00	Equipment Blank	Nutrients	O-Phosphate-P	0.004	U	mg P/L	0.004
3/26/2007 10:00	Equipment Blank	Nutrients	Kjeldahl Nitrogen	0.08	U	mg N/L	0.08
3/26/2007 10:00	Equipment Blank	Nutrients	Total-P	0.02	U	mg P/L	0.02
3/26/2007 10:00	Equipment Blank	Nutrients	TSS	4	U	mg/L	4
3/26/2007 10:00	Equipment Blank	Pesticides	Alachlor	0.61	U	ug/L	0.61
3/26/2007 10:00	Equipment Blank	Pesticides	Ametryn	0.051	UJ	ug/L	0.051
3/26/2007 10:00	Equipment Blank	Pesticides	Atrazine	0.051	UJ	ug/L	0.051
3/26/2007 10:00	Equipment Blank	Pesticides	Azinphos Methyl	0.2	U	ug/L	0.2
3/26/2007 10:00	Equipment Blank	Pesticides	Bromacil	0.2	UJ	ug/L	0.2
3/26/2007 10:00	Equipment Blank	Pesticides	Butylate	0.2	U	ug/L	0.2
3/26/2007 10:00	Equipment Blank	Pesticides	Chlorpyrifos Ethyl	0.051	U	ug/L	0.051
3/26/2007 10:00	Equipment Blank	Pesticides	Chlorpyrifos Methyl	0.1	U	ug/L	0.1
3/26/2007 10:00	Equipment Blank	Pesticides	Diazinon	0.051	UJ	ug/L	0.051
3/26/2007 10:00	Equipment Blank	Pesticides	Ethion	0.051	U	ug/L	0.051
3/26/2007 10:00	Equipment Blank	Pesticides	Ethoprop	0.1	U	ug/L	0.1
3/26/2007 10:00	Equipment Blank	Pesticides	Fenamiphos	0.2	U	ug/L	0.2
3/26/2007 10:00	Equipment Blank	Pesticides	Fonofos	0.1	U	ug/L	0.1
3/26/2007 10:00	Equipment Blank	Pesticides	Hexazinone	0.1	U	ug/L	0.1
3/26/2007 10:00	Equipment Blank	Pesticides	Malathion	0.15	U	ug/L	0.15

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Qualifier	Units	MDL
3/26/2007 10:00	Equipment Blank	Pesticides	Metalaxyl	0.26	UJ	ug/L	0.26
3/26/2007 10:00	Equipment Blank	Pesticides	Metolachlor	0.51	U	ug/L	0.51
3/26/2007 10:00	Equipment Blank	Pesticides	Metribuzin	0.1	UJ	ug/L	0.1
3/26/2007 10:00	Equipment Blank	Pesticides	Mevinphos	0.2	U	ug/L	0.2
3/26/2007 10:00	Equipment Blank	Pesticides	Naled	0.82	U	ug/L	0.82
3/26/2007 10:00	Equipment Blank	Pesticides	Norflurazon	0.15	U	ug/L	0.15
3/26/2007 10:00	Equipment Blank	Pesticides	Parathion Ethyl	0.15	U	ug/L	0.15
3/26/2007 10:00	Equipment Blank	Pesticides	Parathion Methyl	0.1	U	ug/L	0.1
3/26/2007 10:00	Equipment Blank	Pesticides	Phorate	0.051	U	ug/L	0.051
3/26/2007 10:00	Equipment Blank	Pesticides	Prometryn	0.15	U	ug/L	0.15
3/26/2007 10:00	Equipment Blank	Pesticides	Simazine	0.051	U	ug/L	0.051
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	1,2-Dichlorobenzene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	1,3-Dichlorobenzene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	1,4-Dichlorobenzene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	2,4-Dichlorophenol	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	2,4-Dimethylphenol	10	U	ug/L	10
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	2,4-Dinitrophenol	15	U	ug/L	15
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	2-Chloronaphthalene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	2-Chlorophenol	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1	U	ug/L	3.1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	2-Nitrophenol	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	41	UJ	ug/L	41
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	4,4'-DDD	1.5	U	ug/L	1.5
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	4,4'-DDE	1.5	U	ug/L	1.5
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	4,4'-DDT	1.5	U	ug/L	1.5
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2	U	ug/L	2
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Acenaphthene	1	U	ug/L	1

Appendix E. (continued)

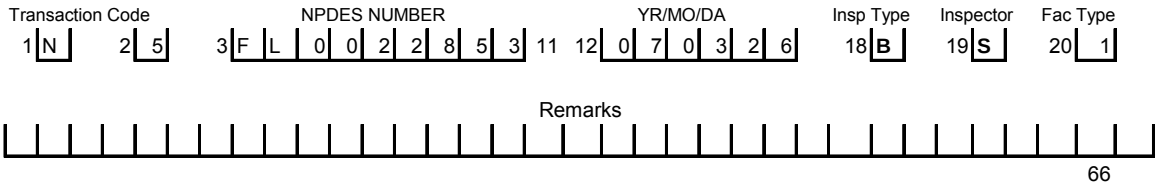
Date Sampled	Field ID	Analysis Group	Component	Result	Qualifier	Units	MDL
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Acenaphthylene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Aldrin	1.5	UJ	ug/L	1.5
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Anthracene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Benzidine	100	UJ	ug/L	100
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Benzo(a)anthracene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Benzo(a)pyrene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.1	U	ug/L	3.1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	15	U	ug/L	15
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Butyl benzyl phthalate	5.1	U	ug/L	5.1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Chrysene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Di-n-butyl phthalate	5.1	U	ug/L	5.1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Di-n-octyl phthalate	1	UJ	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Dieldrin	1.5	U	ug/L	1.5
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Diethyl phthalate	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Dimethyl phthalate	51	U	ug/L	51
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Endosulfan I	4.1	U	ug/L	4.1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Endosulfan II	4.1	U	ug/L	4.1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Endosulfan sulfate	1.5	U	ug/L	1.5
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Endrin	1.5	UJ	ug/L	1.5
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Endrin aldehyde	4.1	U	ug/L	4.1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Fluoranthene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Fluorene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Heptachlor	1.5	U	ug/L	1.5
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Heptachlor epoxide	1.5	U	ug/L	1.5
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Hexachlorobenzene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Hexachlorobutadiene	3.1	U	ug/L	3.1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.1	U	ug/L	3.1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Hexachloroethane	3.1	U	ug/L	3.1

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Qualifier	Units	MDL
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Isophorone	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2	U	ug/L	2
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2	U	ug/L	2
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.1	U	ug/L	3.1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Naphthalene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Nitrobenzene	2	U	ug/L	2
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Pentachlorophenol	3.1	U	ug/L	3.1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Phenanthrene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Phenol	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	Pyrene	1	U	ug/L	1
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	alpha-BHC	1.5	U	ug/L	1.5
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	beta-BHC	1.5	U	ug/L	1.5
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	delta-BHC	1.5	U	ug/L	1.5
3/26/2007 10:00	Equipment Blank	Priority Organic Pollutants	gamma-BHC	1.5	U	ug/L	1.5

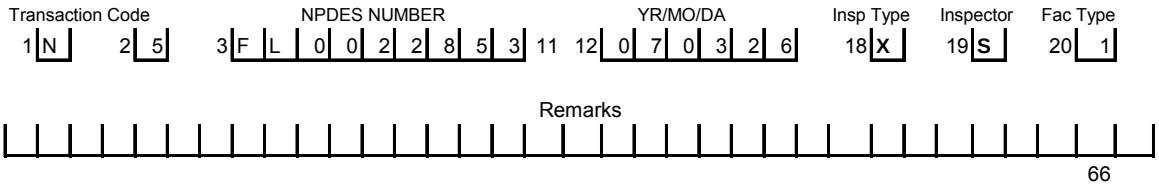
The Bioassay of FANG - Camp Blanding Wastewater Treatment Facility effluent sampled on March 26, 2007. NPDES #FL0022853.

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



The Priority Pollutants Analysis of FANG - Camp Blanding Wastewater Treatment Facility effluent sampled on March 26, 2007. NPDES #FL0022853.

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



Biological Analyses of FANG - Camp Blanding Wastewater Treatment Facility effluent sampled on March 26, 2007. NPDES #FL0022853.

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

