

Bioassays of

Florida Power and Light Company, St. Lucie Power Plant

St. Lucie County

NPDES #FL0002208

Sampled April 5, 2004

June 2004

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

Florida Power and Light Company, St. Lucie Power Plant, 6501 South Ocean Drive, Jensen Beach, St. Lucie County, Florida, NPDES #FL0002208. Effluent samples for this facility were collected on April 5, 2004.

Introduction

This nuclear power plant has a design flow of 1,477 million gallons per day (MGD) and an average daily flow of 1,477 MGD. The once-through cooling water is the primary source of wastewater from the facility and receives no treatment other than limited chlorination (120 minutes/day) for condenser tube cleaning. The wastewater is not dechlorinated prior to being discharged to the Atlantic Ocean, a Class III marine receiving water. The liquid radiation wastewater is treated by filtration and ion exchange (0.024 MGD) prior to being added to the 1477 MGD cooling water wastewater stream (Terry Davis, FDEP Southeast District).

Methods

Samples were collected from the NPDES sampling point by Terry Davis (FDEP Southeast District, Port St. Lucie) following DEP-SOP-001/01 FS 2400 Wastewater Sampling. All DEP SOP's are available on the web at: http://www.floridadep.org/labs/qa/sops.htm.

Four bioassay samples were collected over a 24-hr period at 6 hr intervals. The toxicity and algal growth potential tests discussed in this report were performed following internal DEP SOP's TA07_03,TA07_04, and TA08_01 through TA08_06. All internal DEP SOP's are available on the web at: http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp.

Toxicity Test Results

Tests were performed April 6-10, 2004.

Sample #1 April 4, 2004, time: 0900

Americamysis bahia 96-hr acute screening bioassay – Not Toxic; LC_{50} > 100%, 5% mortality in 100% sample at 96 hours

Menidia beryllina 96-hr acute screening bioassay – Not Toxic; LC_{50} > 100%, 5% mortality in 100% sample at 96 hours

Sample #2 April 4, 2004, time: 1500

Americamysis bahia 96-hr acute screening bioassay – Not Toxic; LC_{50} > 100%, 5% mortality in 100% sample at 96 hours

Menidia beryllina 96-hr acute screening bioassay – Not Toxic; LC_{50} > 100%, 0% mortality in 100% sample at 96 hours

Sample #3 April 4, 2004, time: 2100

Americamysis bahia 96-hr acute screening bioassay – Not Toxic; LC_{50} > 100%, 5% mortality in 100% sample at 96 hours

Menidia beryllina 96-hr acute screening bioassay – Not Toxic; LC_{50} > 100%, 0% mortality in 100% sample at 96 hours

Sample #4 April 5, 2004, time: 0300

Americamysis bahia 96-hr acute screening bioassay – Not Toxic; LC_{50} > 100%, 0% mortality in 100% sample at 96 hours

Menidia beryllina 96-hr acute screening bioassay – Not Toxic; LC_{50} > 100%, 5% mortality in 100% sample at 96 hours

See Appendix 1 for bioassay bench sheets.

Algal Growth Potential

The effluent algal growth potential (AGP) result was 0.999 mg dry wt/L of *Dunaliella tertiolecta*, below the 10 mg dry weight/L “problem” threshold for marine receiving waters (Raschke and Shultz, 1987).

Chemistry Results

Total residual chlorine and total ammonia were not detected in the bioassay sample in the laboratory.

Aluminum and iron were detected in the effluent at a level above the practical quantitation limit; all metal concentrations complied with Class III Marine Water Quality Criteria (62-302.530 F.A.C.).

See Table 1 for results of analytes detected in the effluent.

See Appendix 2 for a complete list of chemical analyses performed.

Conclusion

The effluent samples collected from this facility on April 4 and 5 did not show unacceptable acute toxicity to either test species during the four 96-hour bioassay tests. The effluent AGP result was less than the "problem” threshold for marine receiving waters.

Literature Cited

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. *Effluent limits, Class III Criteria and chemical data from samples collected from the* Florida Power and Light Company, St. Lucie Power Plant *sampled on April 5, 2004.*

Florida Power and Light Company St. Lucie Power Plant	Class III Marine Stds	Effluent Limits	Effluent Samples
Organic Constituents (µg/L)			
None Detected	-	-	-
Metals (µg/L unless otherwise noted)			
Aluminum	≤ 1500	-	47
Arsenic	≤ 50	-	22 U
Cadmium	≤ 9.3	-	0.25 U
Calcium (mg/L)	-	-	442
Chromium-III	-	-	4 U
Copper	≤ 3.7	-	0.41 U
Iron	≤ 300	-	52
Lead	≤ 8.5	-	0.5 U
Magnesium (mg/L)	-	-	1440
Nickel	≤ 8.3	-	1 U
Selenium	≤ 71	-	12 U
Silver	≤ 2.3	-	0.2 U
Zinc	≤ 86	-	8.1 U
Nutrients (mg/L)			
Ortho-phosphate	-	-	0.008 I
Total Phosphorus	-	-	0.044 I
Ammonia	-	-	0.017 I
Unionized Ammonia	≤ 0.02	-	<0.02 c
Nitrate+Nitrite	-	-	0.006 I
Total Kjeldahl Nitrogen	-	-	0.27 I
Organic Nitrogen	-	-	0.25 c
Total Nitrogen	-	-	0.28 c
General Physical and Chemical Parameters			
pH (S.U.)	6.5 - 8.5	-	8.2
Conductivity (umhos/cm)	-	-	55,230
Temperature (C)	-	-	34.2
Hardness (mg/L)	-	-	7033.6 c
AGP (mg DryWt/L) d	-	-	0.999
Chlorine (100% sample) lab	≤ 0.01	-	≤ 0.03

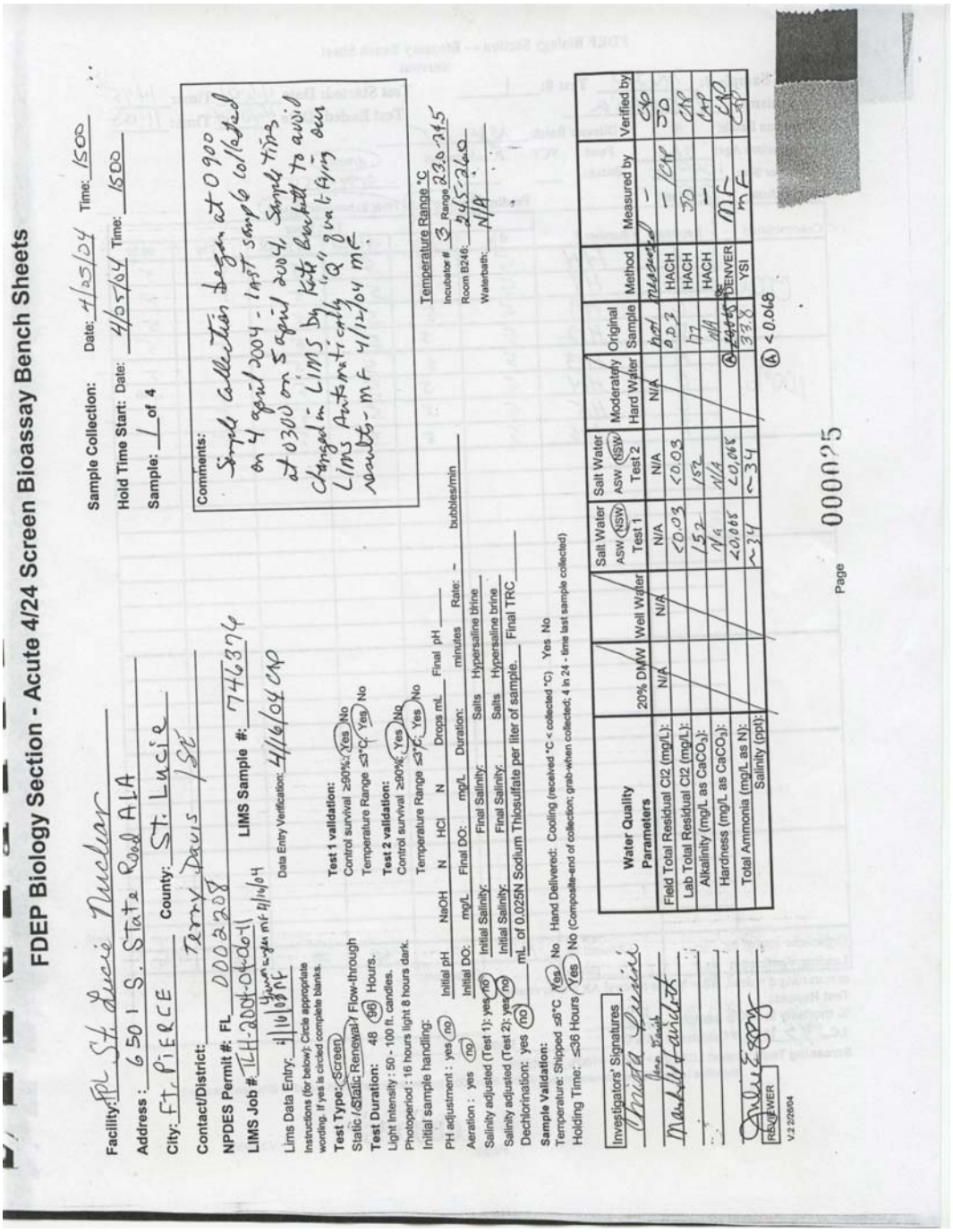
c - calculated value

d - Test species *Dunaliella tertiolecta* .

I - Value reported is < the minimum quantitation limit, and ≥ the minimum detection limit

U - Material analyzed for but not detected; value reported is the minimum detection limit

Appendix 1.
Bioassay Bench Sheets



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

Facility: FPL St. Lucie Nuclear
Address: 6501 S. State Road A1A
City: FT. PIERCE County: St. Lucie
Contact/District: Terry Davis / SE
NPDES Permit #: FL 0002208
LIMS Job #: TLH-2004-04031 LIMS Sample #: 7746374
Lims Data Entry: 11/16/04 Data Entry Verification: 4/16/04 CAD
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.
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: Salts Hypersaline brine
Salinity adjusted (Test 2): yes (no) Initial 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)

Sample Collection: Date: 4/25/04 Time: 1500
Hold Time Start: Date: 4/25/04 Time: 1500
Sample: 1 of 4

Comments:
Single collection began at 0900 on 4 April 2004 - last sample 1st at 0300 on 5 April 2004. Sample Times changed in LIMS by Kate Burkett to avoid LIMS automatically "Q" given 4 min. Lims Automatically "Q" given 4 minutes - MF 4/12/04 MF

Temperature Range °C
Incubator # 3 Range 23.0-24.5
Room B246: 24.5-25.0
Waterbath: N/A

Investigators' Signatures	Water Quality Parameters	20% DMW	Well Water	Salt Water ASW (NSW) Test 1	Salt Water ASW (NSW) Test 2	Moderately Hard Water	Original Sample	Method	Measured by	Verified by
Tricia Guerin	Field Total Residual Cl2 (mg/L):	N/A	N/A	N/A	N/A	N/A	not measured	—	—	SD
Mark Hallenbeck	Lab Total Residual Cl2 (mg/L):			<0.03	<0.03		0.03	HACH	—	CAD
	Alkalinity (mg/L as $CaCO_3$):			152	152		177	HACH	SD	CAD
	Hardness (mg/L as $CaCO_3$):			N/A	N/A		N/A	HACH	—	CAD
	Total Ammonia (mg/L as N):			<0.068	<0.068		(A) 0.071	DENVER	MF	CAD
	Salinity (ppt):			~34	~34		33.8	YSI	MF	CAD

(A) < 0.068

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FDEP Biology Section - - Bioassay Bench Sheet

Survival

LIMS Sample #: 746376 **Test #:** 1

Organism: A. bahia

Test Started: Date 4-6-04 **Time:** 1445

Test Ended: Date 4-10-04 **Time:** 11:00

Organism Batch: 91 **Diluent/ Batch:** NSW / 1.5

Organism Age: 4 days **Food:** YCT *P. subcapitata* (*Artemia*)

Chamber Size 1000 **mL** **Batch:** — — ; - 0194025G

Test Volume 500 **mL**

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	H4	5	5	5	5	5	5
	B	H8	5	5	5	5	5	5
	C	H9	5	5	5	5	5	5
	D	H12	5	5	5	5	5	5
100%	A	H13	5	5	5	5	5	5
	B	H14	5	5	5	5	5	5
	C	H15	5	5	5	5	5	4 1D
	D	H16	5	5	5	5	5	5
Organisms loaded by: JD Loading Verified by: CAP		Checked by: (initials)	CAP	JD	CAP	JD	JD	CAP

m = missing d = dead BR = before renewal AR = after renewal

Comments:

Test Results:

% mortality in 100% sample 5%

LC_{50}: > 100% If Calculated: 95% CI_____ Method:_____

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

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

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FDEP Biology Section - - Bioassay Bench Sheet

Survival

746376

LIMS Sample #: ~~746374~~ Test #: 2 Test Started: Date 4-6-04 Time: 1430

Organism: M. beryllina Test Ended: Date 4-10-04 Time: 11:20

Organism Batch: 13 Diluent/ Batch: NSW, –

Organism Age: 13 days Food: YCT P. subcapitata Artemia

Chamber Size 1000 mL Batch: 0194825G

Test Volume 500 mL 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	H6	10	10	10	10	10	10
	B	H7	10	10	10	10	10	10
100%	A	H20	10	10	10	10	10	9
	B	H21	10	10	10	10	10	10

Organisms loaded by: JD

Loading Verified by: CAP

Checked by: (initials) CAP | JD | CAP | CAP | JD | CAP

Comments:

m = missing d = dead BR = before renewal AR = after renewal

Test Results:

% mortality in 100% sample 5%

LC_{50}: > 100% If Calculated: 95% CI ______ Method: ______

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

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

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Bioassay Parameters

LIMS Sample # : 746376 **Test # :** 1 of 2

TEST SOP: TA07_ 03 Test Species: *Ceriodaphnia dubia Cyprinella leedsi Pimephales promelas Americamysis bahia Menidia beryllina* Other:

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Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	8.1	7.9	7.8	8.1	8.1	8.2
Temperature °C	24.3	24.5	24.9	24.4	25.9	24.6
Dissolved Oxygen mg/L	7.8	6.0	5.1	6.2	6.0	6.1
Conductivity µmhos mmhos	48.1	49.5	51.4	47.8	52.4	51.9
(initials) Measured by:	JD	CAP	CAP	CAP	CAP	CAP
(initials) Recorded by:	JD	CAP	CAP	CAP	CAP	CAP

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	8.2	8.0	7.9	8.1	8.1	8.2
Temperature °C	24.0	25.7	24.4	24.4	25.9	24.8
Dissolved Oxygen mg/L	7.7	6.0	5.0	6.2	6.1	6.0
Conductivity µmhos mmhos	50.2	49.3	50.4	51.3	53.8	~~52.8~~ 52.8
(initials) Measured by:	JD	CAP	CAP	CAP	CAP	CAP
(initials) Recorded by:	JD	CAP	CAP	CAP	CAP	CAP

Comments:

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

Comments:

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

Comments:

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Bioassay Parameters

LIMS Sample # : 746374 **Test #:** 2 **of** 2

TEST SOP: TA07_ 04 **Test Species:** *Ceriodaphnia dubia Cyprinella leedsi Pimephales promelas Americamysis bahia Menidia beryllina* Other:_____

V.1 2/24/04

Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	~~A~~ C	A	B	A
pH (S.U.)	8.2	8.0	8.0	8.1	8.0	7.9
Temperature °C	24.6	24.8	24.3	24.6	25.1	24.9
Dissolved Oxygen mg/L	7.5	6.8	5.3	6.2	6.5	6.3
Conductivity µmhos mmhos	48.8	50.0	52.0	51.6	52.0	51.8
(initials) Measured by:	JD	CAP	CAP	CAP	CAP	CAP
(initials) Recorded by:	JD	CAP	CAP	CAP	CAP	CAP

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	~~C~~ A	A	B	A
pH (S.U.)	8.2	8.1	8.0	8.2	7.9	8.0
Temperature °C	24.0	24.2	24.8	24.5	25.0	24.9
Dissolved Oxygen mg/L	7.5	6.2	5.2	4.0	6.1	6.2
Conductivity µmhos mmhos	~~48.8~~ 50 ~~48.8~~	48.9	52.1	50.7	52.1	50.9
(initials) Measured by:	TD	CAP	CAP	CAP	CAP	CAP
(initials) Recorded by:	JD	CAP	CAP	CAP	CAP	CAP

Comments:

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

Comments:

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

Comments:

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

Facility: St. Lucie

Sample Collection: Date: 4-5-04 Time: 1500

LIMS Job #: TLH-2004-04-06-11 **LIMS Sample #:** 746377

Hold Time Start: Date: 4-05-04 Time: 1500

Sample: 2 of 4

Lims Data Entry: 4-16-04 MF

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

Data Entry Verification: 4-16-04 CAP

Comments:

Test 1 validation:
Control survival ≥90%: (Yes) No
Temperature Range ≤3°C: (Yes) No

Test 2 validation:
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) Sodium Thiosulfate added: ml/L

Water Quality Parameters	Original Sample	Method	Measured by	Verified by
Field Total Residual Cl2 (mg/L):	not measured		—	CAP
Lab Total Residual Cl2 (mg/L):	<0.03	HACH	CAP	JD
Alkalinity (mg/L as $CaCO_3$):	160	HACH	JD	CAP
Hardness (mg/L as $CaCO_3$):	n/a	HACH	—	CAP
Total Ammonia (mg/L as N):	<0.068	DENVER	MF	CAP
Salinity (ppt):	34.5	YSI	MF	CAP

FDEP Biology Section - - Bioassay Bench Sheet

Survival

LIMS Sample #: 746377 **Test #:** 1 **Test Started: Date** 4-6-04 **Time:** 1420

Organism: a. bahia **Test Ended: Date** 4/10-04 **Time:** 11:40

Organism Batch: 91 **Diluent/ Batch:** NSW, —

Organism Age: 4 days **Food:** YCT *P. subcapitata* (*Artemia*)

Chamber Size 1000 **mL** **Batch:** — — 0194025G

Test Volume 500 **mL** **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	A7	5	5	5	5	5	5
	B	A8	5	5	5	5	5	4 1D
	C	A11	5	5	5	5	5	5
	D	A12	5	5	5	5	5	5
Organisms loaded by: JD Loading Verified by: CAP		Checked by: (initials)	CAP	JO.	CAP	JD	JD	CAP

Comments:

m = missing d = dead BR = before renewal AR = after renewal

Test Results:

% mortality in 100% sample 5%

LC_{50}: >100% If Calculated: 95% CI ____________ Method: ____________

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

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

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FDEP Biology Section - - Bioassay Bench Sheet
Survival

LIMS Sample #: 746377 Test #: 2 Test Started: Date 4-6-04 Time: 1410
Organism: M. beryllina Test Ended: Date 4-10-04 Time: 11:50
Organism Batch: B Diluent/ Batch: NSW 1 –
Organism Age: 13 days Food: YCT *P. subcapitata* (Artemia) 01440256
Chamber Size 1000 mL Batch: – – –
Test Volume 500 mL 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	B20	10	10	10	10	10	10
	B	B21	10	10	10	10	10	10
100%	A	B22	10	10	10	10	10	10
	B	B24	10	10	10	10	10	10

Organisms loaded by: JD
Loading Verified by: CAP
Checked by: (initials) CAP JD CAP SD JD CAP
m = missing d = dead BR = before renewal AR = after renewal
Comments:

Test Results:
% mortality in 100% sample 0%
LC_{50}: >100% If Calculated: 95% CI _____ Method: _____

Screening Tests: Report LC50 as >100%, =100%, or <100%.
Substitue highest test concentration used if other than 100% (example: Ocean outfall tested at 30% concentration).

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Bioassay Parameters

LIMS Sample # : 746377 **Test # :** 1 **of** 2

TEST SOP: TA07_ 03 Test Species: *Ceriodaphnia dubia Cyprinella leedsi Pimephales promelas* *Americamysis bahia* *Menidia beryllina* Other:_____

V.1 2/24/04

Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	8.2	8.0	7.9	8.1	8.1	8.0
Temperature °C	24.1	24.9	24.7	24.6	25.8	24.9
Dissolved Oxygen mg/L	7.4	6.2	5.1	6.5	~~5.0~~	6.2
Conductivity µmhos mmhos	~~47.6~~ 48.4	48.4	51.4	48.4	51.6	50.8
(initials) Measured by:	JD	CAP	CAP	CAP	JD	CAP
(initials) Recorded by:	JD	CAP	CAP	CAP	JD	CAP

A 6.0 CAP

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	~~B~~C	C	D	A
pH (S.U.)	8.2	8.0	8.0	8.1	8.1	8.0
Temperature °C	24.5	24.5	24.3	24.6	24.7	24.8
Dissolved Oxygen mg/L	7.7	6.2	4.9	6.4	6.1	6.0
Conductivity µmhos mmhos	50.0	49.9	52.0	49.3	51.9	50.7
(initials) Measured by:	JD	CAP	CAP	CAP	JD	CAP
(initials) Recorded by:	JD	CAP	CAP	CAP	JD	CAP

Comments:

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

Comments:

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

Comments:

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Bioassay Parameters

LIMS Sample # : 746377 **Test #:** 2 of 2

TEST SOP: TA07_ 04 _ Test Species: *Ceriodaphnia dubia Cyprinella leedsi Pimephales promelas Americamysis bahia Menidia beryllina* Other:_____

V.1 2/24/04

Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	A	A	B	A
pH (S.U.)	8.2	8.1	8.0	8.2	8.0	8.0
Temperature °C	24.2	24.5	24.7	24.6	24.4	24.2
Dissolved Oxygen mg/L	8.0	6.2	4.8	6.4	6.1	6.0
Conductivity µmhos mmhos	48.7	48.8	52.4	50.3	51.5	51.8
(initials) Measured by:	JD	CAP	CAP	CAP	CAP	CAP
(initials) Recorded by:	JD	CAP	CAP	CAP	CAP	CAP

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	A	A	B	A
pH (S.U.)	8.2	8.1	8.1	8.2	8.0	7.9
Temperature °C	24.5	25.8	25.0	24.7	24.3	24.2
Dissolved Oxygen mg/L	8.0	6.3	4.9	6.4	6.2	6.1
Conductivity µmhos mmhos	49.0	50.1	51.4	51.5	51.8	51.8
(initials) Measured by:	JD	CAP	CAP	CAP	CAP	CAP
(initials) Recorded by:	JD	CAP	CAP	CAP	CAP	CAP

Comments:

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

Comments:

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

Comments:

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

Facility: St. Lucie

Sample Collection: Date: 4-05-04 Time: 1500

LIMS Job #: TLH-2004-04-06-11 **LIMS Sample #:** 746378

Hold Time Start: Date: 4-05-04 Time: 1500

Sample: 3 of 4

Lims Data Entry: 4-16-04 mf

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

Data Entry Verification: 4-16-04 CAP

Comments:

Test 1 validation:
Control survival ≥90%: (Yes) No
Temperature Range ≤3°C: (Yes) No

Test 2 validation:
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) Sodium Thiosulfate added: ml/L

Water Quality Parameters	Original Sample	Method	Measured by	Verified by
Field Total Residual Cl2 (mg/L):	not measured		—	CAP
Lab Total Residual Cl2 (mg/L):	<.03	HACH	CAP	JD
Alkalinity (mg/L as $CaCO_3$):	150	HACH	JD	CAP
Hardness (mg/L as $CaCO_3$):	N/A	HACH	—	CAP
Total Ammonia (mg/L as N):	20,068	DENVER	MF	CAP
Salinity (ppt):	34.6	YSI	MF	CAP

FDEP Biology Section - - Bioassay Bench Sheet

Survival

LIMS Sample #: 746378 **Test #:** 1 **Test Started: Date** 4/6/04 **Time:** 1500

Organism: A. bahia **Test Ended: Date** 4/10/04 **Time:** 11:55

Organism Batch: 91 **Diluent/ Batch:** NSW / —

Organism Age: 4 days **Food:** YCT *P. subcapitata* *Artemia* 0194025G

Chamber Size 1000 mL **Batch:** — — , —

Test Volume 500 mL **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	H17	5	5	5	5	5	5
	B	H18	5	5	5	5	5	5
	C	H19	5	5	5	5	5	5
	D	H20	5	5	5	5	5	5
100%	A	H21	5	5	5	5	5	5
	B	H22	5	5	5	5	5	5
	C	H23	5	5	5	5	5	5
	D	H24	5	5	5	5	5	4D

Organisms loaded by: JD Checked by: CAP JD CAP CAP CAP CAP

Loading Verified by: CAP (initials)

Comments:

m = missing d = dead BR = before renewal AR = after renewal

Test Results:

% mortality in 100% sample 5%

LC_{50}: >100% If Calculated: 95% CI _____ Method: _____

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

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

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FDEP Biology Section - - Bioassay Bench Sheet
Survival

LIMS Sample #: 746378 Test #: 2
Organism: M. beryllina
Organism Batch: 13 Diluent/ Batch: NSW , —
Organism Age: 13 days Food: YCT P. subcapitata Artemia
Chamber Size 1000 mL Batch: ___ ___ 0194025G
Test Volume 500 mL

Test Started: Date 4/6/04 Time: 1450
Test Ended: Date 4/10/04 Time: 1210

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	E17	10	10	10	10	10	10
	B	E18	10	10	10	10	10	10
100%	A	E19	10	10	10	10	10	10
	B	E20	10	10	10	10	10	10
Organisms loaded by: JD Loading Verified by: CAP		Checked by: (initials)	CAP	JD	CAP	CAP	JD	CAP

m = missing d = dead BR = before renewal AR = after renewal

Comments:

Test Results:

% mortality in 100% sample ∅%

LC_{50}: >100% If Calculated: 95% CI__________ Method:__________

Screening Tests: Report LC50 as >100%, =100%, or <100%.
Substitue highest test concentration used if other than 100% (example: Ocean outfall tested at 30% concentration).

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Bioassay Parameters

LIMS Sample # : 746378 **Test # :** 1 **of** 2

TEST SOP: TA07_ 03 **Test Species:** *Ceriodaphnia dubia Cyprinella leedsi Pimephales promelas Americamysis bahia Menidia beryllina* Other:

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Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	8.2	8.1	8.0	8.2	8.0	8.2
Temperature °C	24.4	25.8	25.1	24.9	24.4	24.1
Dissolved Oxygen mg/L	7.8	6.2	5.0	6.4	6.1	6.2
Conductivity µmhos mmhos	465	48.6	51.9	50.2	51.5	50.8
(initials) Measured by:	JD	CAP	CAP	CAP	CAP	CAP
(initials) Recorded by:	JD	CAP	CAP	CAP	CAP	CAP

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	8.2	8.1	8.0	8.2	8.0	8.2 (CAP)
Temperature °C	24.3	25.9	25.4	25.0	25.5	~~25.1~~ 25.1
Dissolved Oxygen mg/L	7.9	6.3	5.0	4.4	4.2	6.0
Conductivity µmhos mmhos	49.2	51.5	54.6	50.4	52.6	51.8
(initials) Measured by:	JD	CAP	CAP	CAP	CAP	CAP
(initials) Recorded by:	JD	CAP	CAP	CAP	CAP	CAP

Comments:

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

Comments:

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

Comments:

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Bioassay Parameters

LIMS Sample # : 746378 **Test #:** 2 of 2

TEST SOP: TA07_ 04 **Test Species:** *Ceriodaphnia dubia* *Cyprinella leedsi* *Pimephales promelas* *Americamysis bahia* (*Menidia beryllina*) Other:_____

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Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	CAP EA	A	B	A
pH (S.U.)	8.2	8.1	8.0	8.2	8.0	8.0
Temperature °C	24.6	25.4	24.7	25.0	25.2	25.1
Dissolved Oxygen mg/L	7.8	6.1	4.9	6.5	6.2	6.1
Conductivity µmhos mmhos	48.1	48.3	52.8	51.1	50.3	50.0
(initials) Measured by:	JD	CAP	CAP	CAP	CAP	CAP
(initials) Recorded by:	JD	CAP	CAP	CAP	CAP	CAP

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	CAP CA	A	B	A
pH (S.U.)	8.2	8.2	8.1	8.2	8.0	8.2
Temperature °C	24.4	24.8	25.2	25.0	24.3	24.0
Dissolved Oxygen mg/L	7.8	6.0	4.9	6.5	6.1	6.0
Conductivity µmhos mmhos	48.7	49.9	52.9	51.6	51.8	54.7
(initials) Measured by:	JD	CAP	CAP	CAP	CAP	CAP
(initials) Recorded by:	JD	CAP	CAP	CAP	CAP	CAP

Comments:

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

Comments:

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

Comments:

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

Facility: St. Lucie

Sample Collection: Date: 4-05-04 Time: 1500

Hold Time Start: Date: 4-05-04 Time: 1500

LIMS Job #: TLH-2004-04-06-11 **LIMS Sample #:** 746379

Sample: 4 of 4

Lims Data Entry: 4-16-04 MF

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

Data Entry Verification: 4-16-04 CAP

Comments:

Test 1 validation:
Control survival ≥90%: (Yes) No
Temperature Range ≤3°C: (Yes) No

Test 2 validation:
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) Sodium Thiosulfate added: ml/L

Water Quality Parameters	Original Sample	Method	Measured by	Verified by
Field Total Residual Cl2 (mg/L):	not measured		—	CAP
Lab Total Residual Cl2 (mg/L):	<0.03	HACH	CAP	JD
Alkalinity (mg/L as $CaCO_3$):	157	HACH	JD	CAP
Hardness (mg/L as $CaCO_3$):	N/A	HACH	—	CAP
Total Ammonia (mg/L as N):	0.068	DENVER	MF	CAP
Salinity (ppt):	34.1	YSI	MF	CAP

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FDEP Biology Section - - Bioassay Bench Sheet

Survival

LIMS Sample #: 746379 **Test #:** 1 **Test Started: Date** 4/6/04 **Time:** 1500

Organism: A. balvia **Test Ended: Date** 4/10/04 **Time:** 1220

Organism Batch: 91 **Diluent/ Batch:** NSW / —

Organism Age: 48hrs **Food:** YCT *P. subcapitata* Artemia

Chamber Size 1000 mL **Batch:** — — 0194025 G

Test Volume 500 mL **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	A17	5	5	5	5	5	5
	B	A18	5	5	5	5	5	4/D
	C	A19	5	5	5	5	5	5
	D	A20	5	5	5	5	5	5
100%	A	A21	5	5	5	5	5	5
	B	A22	5	5	5	5	5	5
	C	A23	5	5	5	5	5	5
	D	A24	5	5	5	5	5	5

Organisms loaded by: JD Checked by: CAP SD CAP CAP CAP CAP

Loading Verified by: CAP (initials)

Comments:

m = missing d = dead BR = before renewal AR = after renewal

Test Results:

% mortality in 100% sample 0%

LC_{50}: > 100% If Calculated: 95% CI_____ Method:_____

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

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

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FDEP Biology Section - - Bioassay Bench Sheet

Survival

LIMS Sample #: 746379 **Test #:** 2

Organism: M. beryllina

Organism Batch: 13

Diluent/ Batch: NSW / –

Organism Age: ~~1000~~ 13dph

Food: YCT, *P. subcapitata*, *Artemia* (circled)

Chamber Size ~~500~~ 1000 mL

Batch: —, —, 0194025G

Test Volume 500 mL

Test Started: Date 4/6/04 **Time:** 1510

Test Ended: Date 4/10/04 **Time:** 1250

Feeding: Prior to test - Prior to renewal - Daily (circled: Prior to test - Prior to renewal)

Concentration	Replicate	Chamber #	0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
CTRL	A	A13	10	10	10	10	10	10
	B	A14	10	10	10	10	10	10
100%	A	A15	10	~~10~~ 9	~~10~~ 9	9	9	9
	B	A16	10	10	10	10	10	10

Organisms loaded by: JD

Loading Verified by: CAP

Checked by: (initials) CAP | JD | CAP | CAP | JD | CAP

Comments:

m = missing d = dead BR = before renewal AR = after renewal

Test Results:

% mortality in 100% sample 5%

LC_{50}: >100% If Calculated: 95% CI ______ Method: ______

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

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

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Bioassay Parameters

LIMS Sample # : 746379 **Test # :** 1 **of** 2

TEST SOP: TA07_ 03 **Test Species:** *Ceriodaphnia dubia Cyprinella leedsi Pimephales promelas Americamysis bahia Menidia beryllina* Other:

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Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	8.2	8.1	8.0	8.2	(A) 8.1	8.0
Temperature °C	24.5	24.9	25.5	24.4	24.1	24.0
Dissolved Oxygen mg/L	7.5	6.8	5.2	6.2	5.9	5.4
Conductivity µmhos mmhos	46.7	46.9	49.2	49.3	51.1	51.0
(initials) Measured by:	SD	CAP	CAP	CAP	CAP	CAP
(initials) Recorded by:	SD	CAP	CAP	CAP	CAP	CAP

Comments: (A) 8.1 CAP

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	8.2	8.1	8.0	8.2	8.1	8.1
Temperature °C	24.3	25.9	25.1	24.9	25.5	25.1
Dissolved Oxygen mg/L	7.6	6.8	5.1	6.1	6.0	6.2
Conductivity µmhos mmhos	48.1	49.4	51.2	51.5	53.5	52.3
(initials) Measured by:	SD	CAP	CAP	CAP	CAP	CAP
(initials) Recorded by:	SD	CAP	CAP	CAP	CAP	CAP

Comments:

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

Comments:

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

Comments:

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Bioassay Parameters

LIMS Sample # : 746379 **Test #:** 2 **of** 2

TEST SOP: TA07_ 04 **Test Species:** *Ceriodaphnia dubia Cyprinella leedsi Pimephales promelas Americamysis bahia (Menidia beryllina)* Other:

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Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	A	A	B	A
pH (S.U.)	8.2	8.2	8.0	8.2	8.0	7.9
Temperature °C	24.5	25.7	25.8	24.8	25.0	24.6
Dissolved Oxygen mg/L	7.7	6.9	5.2	6.1	6.0	6.1
Conductivity µmhos mmhos	466	488	51.0	49.4	51.4	50.4
(initials) Measured by:	JD	CAP	CAP	CAP	CAP	CAP
(initials) Recorded by:	JD	CAP	CAP	CAP	CAP	CAP

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	A	A	B	A
pH (S.U.)	8.2	8.2	8.0	8.2	8.0	8.0
Temperature °C	24.3	25.3	25.0	24.7	24.4	24.7
Dissolved Oxygen mg/L	7.7	6.9	5.2	6.1	6.4	6.2
Conductivity µmhos mmhos	47.5	49.1	50.3	51.3	52.3	51.8
(initials) Measured by:	JD	CAP	CAP	CAP	CAP	CAP
(initials) Recorded by:	JD	CAP	CAP	CAP	CAP	CAP

Comments:

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

Comments:

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

Comments:

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[redacted]

Appendix 2. Chemical Analyses performed on the effluent from the Florida Power & Light Company, St. Lucie Power Plant sampled on April 5, 2004.

DATE SAMPLED	FIELD ID	ANALYSIS GROUP	COMPONENT	RESULT	UNITS	REMARK	MDL	PQL
4/5/2004 3:00	51-F-PL-1	Bio-AGP/LimNut	Algal Growth Potential	0.999	mg DryWt/L		0.1	0.3
4/5/2004 3:00	51-F-PL-1	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
4/5/2004 3:00	51-F-PL-1	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
4/5/2004 3:00	51-F-PL-1	BNA-Water	1,2,4-Trichlorobenzene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	1,2-Dichlorobenzene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	1,3-Dichlorobenzene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	1,4-Dichlorobenzene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	2,4,6-Trichlorophenol	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	2,4-Dichlorophenol	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	2,4-Dimethylphenol	47	ug/L	U	47	190
4/5/2004 3:00	51-F-PL-1	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	56
4/5/2004 3:00	51-F-PL-1	BNA-Water	2,4-Dinitrotoluene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	2,6-Dinitrotoluene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	2-Chloronaphthalene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	2-Chlorophenol	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	2-Methyl-4,6-dinitrophenol	2.8	ug/L	U	2.8	11
4/5/2004 3:00	51-F-PL-1	BNA-Water	2-Nitrophenol	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	3,3'-Dichlorobenzidine	37	ug/L	U	37	150
4/5/2004 3:00	51-F-PL-1	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.6
4/5/2004 3:00	51-F-PL-1	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.6
4/5/2004 3:00	51-F-PL-1	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.6
4/5/2004 3:00	51-F-PL-1	BNA-Water	4-Bromophenyl phenyl ether	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	4-Chloro-3-methylphenol	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.5
4/5/2004 3:00	51-F-PL-1	BNA-Water	4-Nitrophenol	14	ug/L	U	14	56
4/5/2004 3:00	51-F-PL-1	BNA-Water	Acenaphthene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Acenaphthylene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.6
4/5/2004 3:00	51-F-PL-1	BNA-Water	Anthracene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Benzidine	93	ug/L	U	93	370
4/5/2004 3:00	51-F-PL-1	BNA-Water	Benzo(a)anthracene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Benzo(a)pyrene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Benzo(b)fluoranthene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Benzo(g,h,i)perylene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Benzo(k)fluoranthene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Bis(2-chloroethoxy)methane	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Bis(2-chloroethyl)ether	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Bis(2-chloroisopropyl)ether	2.8	ug/L	U	2.8	11
4/5/2004 3:00	51-F-PL-1	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	56
4/5/2004 3:00	51-F-PL-1	BNA-Water	Butyl benzyl phthalate	4.7	ug/L	U	4.7	19
4/5/2004 3:00	51-F-PL-1	BNA-Water	Chrysene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Di-n-butyl phthalate	4.7	ug/L	U	4.7	19
4/5/2004 3:00	51-F-PL-1	BNA-Water	Di-n-octyl phthalate	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Dibenzo(a,h)anthracene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.6
4/5/2004 3:00	51-F-PL-1	BNA-Water	Diethyl phthalate	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Dimethyl phthalate	47	ug/L	U	47	190
4/5/2004 3:00	51-F-PL-1	BNA-Water	Endosulfan I	3.7	ug/L	U	3.7	15
4/5/2004 3:00	51-F-PL-1	BNA-Water	Endosulfan II	3.7	ug/L	U	3.7	15
4/5/2004 3:00	51-F-PL-1	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.6
4/5/2004 3:00	51-F-PL-1	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.6
4/5/2004 3:00	51-F-PL-1	BNA-Water	Endrin aldehyde	3.7	ug/L	U	3.7	15
4/5/2004 3:00	51-F-PL-1	BNA-Water	Fluoranthene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Fluorene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.6
4/5/2004 3:00	51-F-PL-1	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.6

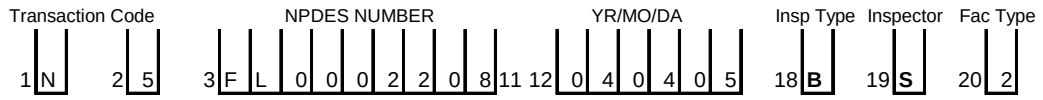
DATE SAMPLED	FIELD ID	ANALYSIS GROUP	COMPONENT	RESULT	UNITS	REMARK	MDL	PQL
4/5/2004 3:00	51-F-PL-1	BNA-Water	Hexachlorobenzene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Hexachlorobutadiene	2.8	ug/L	U	2.8	11
4/5/2004 3:00	51-F-PL-1	BNA-Water	Hexachlorocyclopentadiene	2.8	ug/L	U	2.8	11
4/5/2004 3:00	51-F-PL-1	BNA-Water	Hexachloroethane	2.8	ug/L	U	2.8	11
4/5/2004 3:00	51-F-PL-1	BNA-Water	Indeno(1,2,3-cd)pyrene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Isophorone	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.5
4/5/2004 3:00	51-F-PL-1	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.5
4/5/2004 3:00	51-F-PL-1	BNA-Water	N-Nitrosodiphenylamine	2.8	ug/L	U	2.8	11
4/5/2004 3:00	51-F-PL-1	BNA-Water	Naphthalene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.5
4/5/2004 3:00	51-F-PL-1	BNA-Water	Pentachlorophenol	2.8	ug/L	U	2.8	11
4/5/2004 3:00	51-F-PL-1	BNA-Water	Phenanthrene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Phenol	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	Pyrene	0.93	ug/L	U	0.93	3.7
4/5/2004 3:00	51-F-PL-1	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.6
4/5/2004 3:00	51-F-PL-1	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.6
4/5/2004 3:00	51-F-PL-1	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.6
4/5/2004 3:00	51-F-PL-1	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.6
4/5/2004 3:00	51-F-PL-1	GC-Water	Alachlor	0.57	ug/L	U	0.57	2.28
4/5/2004 3:00	51-F-PL-1	GC-Water	Ametryn	0.047	ug/L	U	0.047	0.188
4/5/2004 3:00	51-F-PL-1	GC-Water	Atrazine	0.047	ug/L	U	0.047	0.188
4/5/2004 3:00	51-F-PL-1	GC-Water	Azinphos Methyl	0.047	ug/L	U	0.047	0.188
4/5/2004 3:00	51-F-PL-1	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
4/5/2004 3:00	51-F-PL-1	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
4/5/2004 3:00	51-F-PL-1	GC-Water	Chlorpyrifos Ethyl	0.047	ug/L	U	0.047	0.188
4/5/2004 3:00	51-F-PL-1	GC-Water	Chlorpyrifos Methyl	0.094	ug/L	U	0.094	0.376
4/5/2004 3:00	51-F-PL-1	GC-Water	Diazinon	0.047	ug/L	U	0.047	0.188
4/5/2004 3:00	51-F-PL-1	GC-Water	Ethion	0.047	ug/L	U	0.047	0.188
4/5/2004 3:00	51-F-PL-1	GC-Water	Ethoprop	0.094	ug/L	U	0.094	0.376
4/5/2004 3:00	51-F-PL-1	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
4/5/2004 3:00	51-F-PL-1	GC-Water	Fonofos	0.094	ug/L	U	0.094	0.376
4/5/2004 3:00	51-F-PL-1	GC-Water	Hexazinone	0.094	ug/L	U	0.094	0.376
4/5/2004 3:00	51-F-PL-1	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
4/5/2004 3:00	51-F-PL-1	GC-Water	Metalaxyl	0.24	ug/L	UJ	0.24	0.96
4/5/2004 3:00	51-F-PL-1	GC-Water	Metolachlor	0.47	ug/L	U	0.47	1.88
4/5/2004 3:00	51-F-PL-1	GC-Water	Metribuzin	0.094	ug/L	U	0.094	0.376
4/5/2004 3:00	51-F-PL-1	GC-Water	Mevinphos	0.19	ug/L	UJ	0.19	0.76
4/5/2004 3:00	51-F-PL-1	GC-Water	Naled	0.75	ug/L	U	0.75	3
4/5/2004 3:00	51-F-PL-1	GC-Water	Norflurazon	0.094	ug/L	U	0.094	0.376
4/5/2004 3:00	51-F-PL-1	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
4/5/2004 3:00	51-F-PL-1	GC-Water	Parathion Methyl	0.094	ug/L	U	0.094	0.376
4/5/2004 3:00	51-F-PL-1	GC-Water	Phorate	0.047	ug/L	U	0.047	0.188
4/5/2004 3:00	51-F-PL-1	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
4/5/2004 3:00	51-F-PL-1	GC-Water	Simazine	0.047	ug/L	U	0.047	0.188
4/5/2004 3:00	51-F-PL-1	Metals-Water	Aluminum	47	ug/L		10	40
4/5/2004 3:00	51-F-PL-1	Metals-Water	Arsenic	22	ug/L	U	22	88
4/5/2004 3:00	51-F-PL-1	Metals-Water	Cadmium	0.25	ug/L	U	0.25	1
4/5/2004 3:00	51-F-PL-1	Metals-Water	Calcium	442	mg/L		0.15	0.6
4/5/2004 3:00	51-F-PL-1	Metals-Water	Chromium	4	ug/L	U	4	16
4/5/2004 3:00	51-F-PL-1	Metals-Water	Copper	0.41	ug/L	U	0.41	1.6
4/5/2004 3:00	51-F-PL-1	Metals-Water	Iron	52	ug/L		10	40
4/5/2004 3:00	51-F-PL-1	Metals-Water	Lead	0.5	ug/L	U	0.5	2
4/5/2004 3:00	51-F-PL-1	Metals-Water	Magnesium	1.44E+03	mg/L		0.8	3.2
4/5/2004 3:00	51-F-PL-1	Metals-Water	Nickel	1	ug/L	U	1	4
4/5/2004 3:00	51-F-PL-1	Metals-Water	Selenium	12	ug/L	U	12	48
4/5/2004 3:00	51-F-PL-1	Metals-Water	Silver	0.2	ug/L	U	0.2	0.8
4/5/2004 3:00	51-F-PL-1	Metals-Water	Zinc	8.1	ug/L	U	8.1	32
4/5/2004 3:00	51-F-PL-1	Nutrients-Liquid	Ammonia-N	0.017	mg N/L	I	0.01	0.02
4/5/2004 3:00	51-F-PL-1	Nutrients-Liquid	NO2NO3-N	0.006	mg N/L	I	0.004	0.01

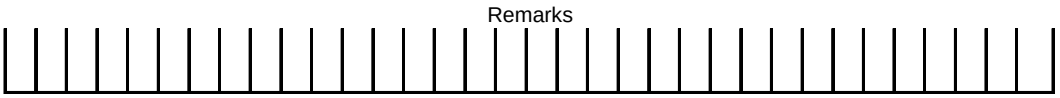
DATE SAMPLED	FIELD ID	ANALYSIS GROUP	COMPONENT	RESULT	UNITS	REMARK	MDL	PQL
4/5/2004 3:00	51-F-PL-1	Nutrients-Liquid	N_KJEL_TOT	0.27	mg N/L	I	0.12	0.4
4/5/2004 3:00	51-F-PL-1	Nutrients-Liquid	O-Phosphate-P	0.008	mg P/L	I	0.004	0.01
4/5/2004 3:00	51-F-PL-1	Nutrients-Liquid	Total-P	0.044	mg P/L	I	0.02	0.06
4/5/2004 15:00	51-F-PL-1A	Bio-Toxicology	Bioassay-Acute-Screen-SW-Fish, LC50	100	LC50	L		
4/5/2004 15:00	51-F-PL-1A	Bio-Toxicology	Bioassay-Acute-Screen-SW-Mysid, LC50	100	LC50	L		
4/5/2004 15:00	51-F-PL-1B	Bio-Toxicology	Bioassay-Acute-Screen-SW-Fish, LC50	100	LC50	L		
4/5/2004 15:00	51-F-PL-1B	Bio-Toxicology	Bioassay-Acute-Screen-SW-Mysid, LC50	100	LC50	L		
4/5/2004 15:00	51-F-PL-1C	Bio-Toxicology	Bioassay-Acute-Screen-SW-Fish, LC50	100	LC50	L		
4/5/2004 15:00	51-F-PL-1C	Bio-Toxicology	Bioassay-Acute-Screen-SW-Mysid, LC50	100	LC50	L		
4/5/2004 15:00	51-F-PL-1D	Bio-Toxicology	Bioassay-Acute-Screen-SW-Fish, LC50	100	LC50	L		
4/5/2004 15:00	51-F-PL-1D	Bio-Toxicology	Bioassay-Acute-Screen-SW-Mysid, LC50	100	LC50	L		
4/5/2004 10:00	51-FPL-2	BNA-Water	1,2,4-Trichlorobenzene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	1,2-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	1,3-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	1,4-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	2,4,6-Trichlorophenol	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	2,4-Dichlorophenol	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
4/5/2004 10:00	51-FPL-2	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	58
4/5/2004 10:00	51-FPL-2	BNA-Water	2,4-Dinitrotoluene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	2,6-Dinitrotoluene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	2-Chloronaphthalene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	2-Chlorophenol	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
4/5/2004 10:00	51-FPL-2	BNA-Water	2-Nitrophenol	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
4/5/2004 10:00	51-FPL-2	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.8
4/5/2004 10:00	51-FPL-2	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.8
4/5/2004 10:00	51-FPL-2	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.8
4/5/2004 10:00	51-FPL-2	BNA-Water	4-Bromophenyl phenyl ether	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	4-Chloro-3-methylphenol	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.7
4/5/2004 10:00	51-FPL-2	BNA-Water	4-Nitrophenol	14	ug/L	U	14	58
4/5/2004 10:00	51-FPL-2	BNA-Water	Acenaphthene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Acenaphthylene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Anthracene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Benzidine	96	ug/L	U	96	380
4/5/2004 10:00	51-FPL-2	BNA-Water	Benzo(a)anthracene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Benzo(a)pyrene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Benzo(b)fluoranthene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Benzo(g,h,i)perylene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Benzo(k)fluoranthene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Bis(2-chloroethoxy)methane	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Bis(2-chloroethyl)ether	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
4/5/2004 10:00	51-FPL-2	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	58
4/5/2004 10:00	51-FPL-2	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
4/5/2004 10:00	51-FPL-2	BNA-Water	Chrysene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
4/5/2004 10:00	51-FPL-2	BNA-Water	Di-n-octyl phthalate	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Dibenzo(a,h)anthracene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Diethyl phthalate	1.2	ug/L	I	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
4/5/2004 10:00	51-FPL-2	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
4/5/2004 10:00	51-FPL-2	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
4/5/2004 10:00	51-FPL-2	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.8

DATE SAMPLED	FIELD ID	ANALYSIS GROUP	COMPONENT	RESULT	UNITS	REMARK	MDL	PQL
4/5/2004 10:00	51-FPL-2	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
4/5/2004 10:00	51-FPL-2	BNA-Water	Fluoranthene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Fluorene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Hexachlorobenzene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
4/5/2004 10:00	51-FPL-2	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
4/5/2004 10:00	51-FPL-2	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
4/5/2004 10:00	51-FPL-2	BNA-Water	Indeno(1,2,3-cd)pyrene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Isophorone	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.7
4/5/2004 10:00	51-FPL-2	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.7
4/5/2004 10:00	51-FPL-2	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
4/5/2004 10:00	51-FPL-2	BNA-Water	Naphthalene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.7
4/5/2004 10:00	51-FPL-2	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
4/5/2004 10:00	51-FPL-2	BNA-Water	Phenanthrene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Phenol	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	Pyrene	0.96	ug/L	U	0.96	3.8
4/5/2004 10:00	51-FPL-2	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.8
4/5/2004 10:00	51-FPL-2	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.8
4/5/2004 10:00	51-FPL-2	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.8
4/5/2004 10:00	51-FPL-2	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.8
4/5/2004 10:00	51-FPL-2	GC-Water	Alachlor	0.58	ug/L	U	0.58	2.32
4/5/2004 10:00	51-FPL-2	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.192
4/5/2004 10:00	51-FPL-2	GC-Water	Atrazine	0.048	ug/L	U	0.048	0.192
4/5/2004 10:00	51-FPL-2	GC-Water	Azinphos Methyl	0.048	ug/L	U	0.048	0.192
4/5/2004 10:00	51-FPL-2	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
4/5/2004 10:00	51-FPL-2	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
4/5/2004 10:00	51-FPL-2	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.192
4/5/2004 10:00	51-FPL-2	GC-Water	Chlorpyrifos Methyl	0.096	ug/L	U	0.096	0.384
4/5/2004 10:00	51-FPL-2	GC-Water	Diazinon	0.048	ug/L	U	0.048	0.192
4/5/2004 10:00	51-FPL-2	GC-Water	Ethion	0.048	ug/L	U	0.048	0.192
4/5/2004 10:00	51-FPL-2	GC-Water	Ethoprop	0.096	ug/L	U	0.096	0.384
4/5/2004 10:00	51-FPL-2	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
4/5/2004 10:00	51-FPL-2	GC-Water	Fonofos	0.096	ug/L	U	0.096	0.384
4/5/2004 10:00	51-FPL-2	GC-Water	Hexazinone	0.096	ug/L	U	0.096	0.384
4/5/2004 10:00	51-FPL-2	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
4/5/2004 10:00	51-FPL-2	GC-Water	Metalaxyl	0.24	ug/L	UJ	0.24	0.96
4/5/2004 10:00	51-FPL-2	GC-Water	Metolachlor	0.48	ug/L	U	0.48	1.92
4/5/2004 10:00	51-FPL-2	GC-Water	Metribuzin	0.096	ug/L	U	0.096	0.384
4/5/2004 10:00	51-FPL-2	GC-Water	Mevinphos	0.19	ug/L	UJ	0.19	0.76
4/5/2004 10:00	51-FPL-2	GC-Water	Naled	0.77	ug/L	U	0.77	3.08
4/5/2004 10:00	51-FPL-2	GC-Water	Norflurazon	0.096	ug/L	U	0.096	0.384
4/5/2004 10:00	51-FPL-2	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
4/5/2004 10:00	51-FPL-2	GC-Water	Parathion Methyl	0.096	ug/L	U	0.096	0.384
4/5/2004 10:00	51-FPL-2	GC-Water	Phorate	0.048	ug/L	U	0.048	0.192
4/5/2004 10:00	51-FPL-2	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
4/5/2004 10:00	51-FPL-2	GC-Water	Simazine	0.048	ug/L	U	0.048	0.192
4/5/2004 10:00	51-FPL-2	Metals-Water	Aluminum	5	ug/L	U	5	20
4/5/2004 10:00	51-FPL-2	Metals-Water	Arsenic	5	ug/L	U	5	20
4/5/2004 10:00	51-FPL-2	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
4/5/2004 10:00	51-FPL-2	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
4/5/2004 10:00	51-FPL-2	Metals-Water	Chromium	2	ug/L	U	2	8
4/5/2004 10:00	51-FPL-2	Metals-Water	Copper	0.2	ug/L	U	0.2	0.8
4/5/2004 10:00	51-FPL-2	Metals-Water	Iron	5	ug/L	U	5	20
4/5/2004 10:00	51-FPL-2	Metals-Water	Lead	0.05	ug/L	U	0.05	0.2
4/5/2004 10:00	51-FPL-2	Metals-Water	Magnesium	0.02	mg/L	U	0.02	0.08
4/5/2004 10:00	51-FPL-2	Metals-Water	Nickel	1	ug/L	U	1	4
4/5/2004 10:00	51-FPL-2	Metals-Water	Selenium	1	ug/L	U	1	4
4/5/2004 10:00	51-FPL-2	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
4/5/2004 10:00	51-FPL-2	Metals-Water	Zinc	2	ug/L	U	2	8
4/5/2004 10:00	51-FPL-2	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
4/5/2004 10:00	51-FPL-2	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
4/5/2004 10:00	51-FPL-2	Nutrients-Liquid	N_KJEL_TOT	0.06	mg N/L	U	0.06	0.2
4/5/2004 10:00	51-FPL-2	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
4/5/2004 10:00	51-FPL-2	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06

The Bioassay of the Florida Power and Light Company, St. Lucie Power Plant effluent sampled on 5 April 2004, NPDES #FL0002208.

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





The Priority Pollutants Analysis for Bioassay of the Florida Power and Light Company, St. Lucie Power Plant effluent sampled on 5 April 2004, NPDES #FL0002208.

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

