

Bioassays of

Bay Lakes Estates Mobile Home Park
Reverse Osmosis Water Treatment Plant
(aka Snowbirdland Vistas, Inc.)

Sarasota County

NPDES #FL0041785

Sampled January 30, 2006

April 2006

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

Bay Lakes Estates Mobile Home Park Reverse Osmosis Water Treatment Plant, 1200 Colonia Lane, Nokomis, Sarasota County, Florida, NPDES #FL0041785. Effluent samples for this facility were collected on January 30, 2006.

Introduction

Bay Lakes Estates Mobile Home Park Reverse Osmosis Water Treatment Plant, a.k.a. Snowbirdland Vistas, Inc., is a water treatment plant which uses the reverse osmosis process to produce potable water for the residents of Bay Lakes Mobile Home Park. The facility has a flow limit of 33,000 gallons per day (GPD) (increased from 20,000 GPD by Consent Order executed on 09/09/2005). The facility had an annual average daily flow (AADF) of concentrate of 21,744 GPD from January 2005 through December 2005. Concentrate is not treated prior to discharge through Outfall D-001 to the Class III marine waters of a man-made canal thence to Curry Creek and ultimately to Roberts Bay. Outfall D-001 is located at approximately latitude 27º 7' 11" N and longitude -82º 26' 2" W.

The facility is currently operating under Consent Order (CO) 09-09-2005. The CO includes interim limits for flow (33,000 GPD), gross alpha (75 pCi/L), and combined radium 226+228 (44 pCi/L). The CO also stipulates that connection of discharge to sanitary sewer be completed by November 30, 2006. The facility has a mixing zone 12.19 m wide by 24.38 m long centered over the point of discharge into the canal for gross alpha and combined radium 226+228. The facility has consistently violated flow, gross alpha and combined radium 226+228 permit limits throughout the five year permit cycle. The facility has no current toxicity testing requirements. The former toxicity test requirements included salinity-adjusted effluent tested at a concentration of 25%. (Facility information was provided by Lori Pillsbury of FDEP Southwest District).

Methods

Samples were collected from the EFF-1 NPDES sampling point for Outfall D-001 by Lori Pillsbury (FDEP Southwest District) 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.

See Appendix 1 for the completed chain of custody form.

The 48-hour acute screening toxicity tests and algal growth potential test were performed following internal DEP SOP's TA07_03, TA07_04, and TA08_01 through TA08_09. All internal DEP SOP's are available on the web at: http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp. The Department uses the 48-hour acute screening toxicity test to provide reasonable assurance that the facility does not adversely affect waters of the state.

Both bioassay tests were run using 25% effluent, produced by diluting 100% effluent with artificial seawater (ASW) in a ratio of 1 part effluent to 3 parts ASW. The AGP sample salinity was increased from approximately 3 parts per thousand (ppth) to 7 ppth to meet the minimum salinity requirements of the test species.

Toxicity Test Results

Tests were performed January 31 – February 2, 2006.

Americamysis bahia 48-hour acute screening bioassay –	LC_{50} > 25%, 10% mortality* in 25% sample at 48 hours
Menidia beryllina 48-hour acute screening bioassay –	LC_{50} > 25%, 0% mortality* in 25% sample at 48 hours

The bioassay sample was not acutely toxic to the test organisms *Americamysis bahia* and *Menidia beryllina*.

See Appendix 2 for bioassay bench sheets.

See Appendix 3 for results of the last 20 standard reference toxicant (SRT) tests and bench sheets and statistical analyses of the SRT test that corresponds to this facility test. See Appendix 4 for test organism receipts.

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

Algal Growth Potential

The effluent Algal Growth Potential (AGP) was 1.29 mg dry wt/L of the saltwater species *Dunaliella tertiolecta.* Raschke and Shultz found that AGP values above 10.0 mg dry weight/L represent a "problem" threshold for marine receiving waters, implying nutrient enrichment (personal communication with Ron Raschke USEPA Region 4 1987). The analytical chemistry suggests that the effluent is nitrogen-limited.

See Table 1 for AGP results.

Chemistry Results

Total residual chlorine was not detected in the bioassay sample in the laboratory. The total ammonia concentration in the bioassay sample in the laboratory was 0.692. The total ammonia concentration in the sample collected and preserved for chemical analysis was 0.74 mg/L. Based on the pH, salinity, and temperature of the effluent as collected, the calculated unionized ammonia concentration was 0.12 mg/L.

It should be noted that although chemistry results confirmed that the ion makeup of the sample was not in seawater proportions and that the apparent 3 ppth salinity (salinity based on conductivity and temperature) of the sample was due in part to elevated levels of ground-water ions, the calcium concentration in the sample as tested was effectively reduced below calcium concentrations known to produce mortality in the test species, *Americamysis bahia*. The calcium concentration was 824 mg/L at 3 ppth salinity, which is approximately twenty-three times the normal concentration for calcium in seawater of this salinity. The calculated calcium concentration in the sample as tested was approximately 1.7 times the normal calcium concentration in seawater of this salinity (approximately 20 ppth). Previous research conducted by the FDEP Biology Section demonstrated that *A. bahia* is much more sensitive to seawater-ion imbalances than is *M. beryllina* (FDEP, 1995).

Arsenic was detected between the laboratory method detection limit (MDL) and practical quantitation limit (PQL). Effluent total alpha particle activity (62 pCi/L) and concentration of combined radium 226+228 (28.5 pCi/L) exceeded Class III marine water quality criteria of 15 pCi/L and 5 pCi/L, respectively (62-302.530(58)(b) and (a), F.A.C.), but did not exceed the respective limits of 75 pCi/L and 44 pCi/L established under the Consent Order.

See Table 2 for results of analytes detected in the effluent, and corresponding limits.

See Appendix 5 for a complete list of chemical analyses performed.

Conclusion

The 25% concentration of the effluent sample collected from D-001 for this facility on January 30, 2006, was not acutely toxic to either test species during the 48-hour acute screen bioassays. The effluent AGP result was less than the "problem" threshold for marine receiving waters. Effluent total alpha particle activity and concentrations of combined radium 226+228 exceeded their respective Class III marine water quality criteria but did not exceed current permitted limits.

Literature Cited

Maloney, T. E., W. E. Miller, and D. T. Specht. 1974. The Marine Algal Assay Procedure: Bottle Test. National Environmental Research Center Office of Research and Development. U. S. EPA, Corvallis, Oregon. 43 p.

FDEP. 1995. Protocols for determining Major-Seawater-Ion Toxicity in Membrane-Technology Water-Treatment Concentrate. Biology and Chemistry Section, FDEP Bureau of Laboratories, Tallahassee, Florida. 99 pp.

Table 1. Measured algal growth potential (AGP; mg dry weight/L) of the saltwater species Dunaliella tertiolecta and ratios of nitrogen to phosphorus for samples collected from Bay Lakes Estates Mobile Home Park Rerverse Osmosis Water Treatment Plant on January 30, 2006.

Location	AGP (measured)	Inorganic N:P ratio	Total N:P ratio
Effluent Samples	1.29	193.75	4.04

Table 2. Effluent limits, Class III Marine Criteria, and chemical and data for samples collected from Bay Lakes Estates Mobile Home Park Reverse Osmosis Water Treatment Plant on January 30, 2005.

Bay Lakes Estates MHP RO WTP NPDES# FL0041785	Class III Marine Stds	Effluent Limits	Effluent Samples
Organic Constituents (µg/L)			
None Detected	-	-	-
Metals (µg/L unless otherwise noted)			
Aluminum	≤ 1,500	-	5 U
Arsenic	≤ 50	-	6.4 I
Cadmium	≤ 9.3	-	0.05 U
Calcium (mg/L)	-	-	824
Chromium-III	-	-	4 U
Copper	≤ 3.7	-	2.5 U
Iron	≤ 300	-	10 U
Lead	≤ 8.5	-	0.075 U
Magnesium (mg/L)	-	-	329
Nickel	≤ 8.3	-	1 U
Selenium	≤ 71	-	0.5 U
Silver	≤ 2.3	-	0.025 U
Zinc	≤ 86	-	6 U
Nutrients (mg/L)			
Ortho-phosphate	-	-	0.004 I
Total Phosphorus	-	-	0.38 A
Ammonia	-	-	0.74
Unionized Ammonia	-	-	0.12 c
Nitrate+Nitrite	-	-	0.035
Total Kjeldahl Nitrogen	-	-	1.5 A
Organic Nitrogen	-	-	0.76 c
Total Nitrogen	-	-	1.54 c
General Physical and Chemical Parameters			
Alpha, Total (pCi/L)	≤ 15	≤ 75	62
Alpha-Counting Error (pCi/L)	-	-	6.7
Radium 226 (pCi/L)	-	-	27
Radium 226-Counting Error (pCi/L)	-	-	0.7
Radium 228 (pCi/L)	-	-	1.5
Radium 228-Counting Error (pCi/L)	-	-	0.6
Radium 226+228 (pCi/L)	≤ 5	≤ 44	28.5 c
Dissolved Oxygen (mg/L)	≥ 4	≥ 4	8
pH (S.U.)	6.5-8.5	6.5-8.5	8.4
Conductivity (umhos/cm)	-	-	5,558
Temperature (C)	-	-	25.7
BOD (mg/L)	-	-	0.2 U
Chlorophyll *a* (µg/L)	-	-	0.85 U
Phaeophytin *a* (µg/L)	-	-	1.5 U
TSS (mg/L)	-	-	4 U
Turbidity (NTU)	-	-	1.1
Flow (GPD)	-	30,000 a	21,744 a
Hardness (mg/L)	-	-	3,412.4 c

Value exceeds the Class III Marine Water Quality Criteria (62-302, F.A.C.) and/or Effluent Limits

a - Annual average

c - Calculated value

A - Value reported is the mean of two or more determinations

I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

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

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ-2006-01-30-14

Snowbirdland Vistas, Inc.
1200 E. Colonial Dr.
Nokomis, FL 34275

Customer: SW-DIST

Project ID: FYI3

PMAS: 1163

Requestor: Shannan Gunnoe

Collected By: L Pillsbury

Sampling Agency: FDEP

Field Report Prepared By: L Pillsbury

Send Final Report To: Ilia Balcom

Lab ID *	Location	Comp / Grab	Collection (begin) Date Time Eastern Central	Collection (end) Date Time Eastern Central	Bottle Group(s)**
	Outfall D002	☐ Comp ☑ Grab	Date 1-30-06 Time 1075 (Eastern) Central	Date Time	A
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L) 8.03	Storet Station Number	
	Matrix (Include type e.g. Salt, Fresh, etc): Salt; Temp (C): 25.68; pH: 3.40	Sample Depth ☐ m ☐ ft: Outfall	☑ Salinity (PPTh): 3.00; ☑ Sp Conductance (umho/cm): 5558	NPDES Number: FL0041785	
	Latitude: N 27 07 10.2	Longitude: W 082 26 01.8	Comments: % SO 100.2 Sampled R.O. concentrate		

Lab ID *	Location	Comp / Grab	Collection (begin) Date Time Eastern Central	Collection (end) Date Time Eastern Central	Bottle Group(s)**
	Field Blank	☐ Comp ☑ Grab	Date 1-30-06 Time 1102 (Eastern) Central	Date Time	B
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (Include type e.g. Salt, Fresh, etc); Temp (C); pH	Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number	
	Latitude ° ' "	Longitude ° ' "	Comments		

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

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

Relinquished By	Date/Time	Shipping Method	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
[illegible]	1/30/06 1325	DHL	Tom E	01/31/06 9:45				

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

FDEP Biology Section - Acute Screen Bioassay Bench Sheets

Facility: Bay Lakes Estates Mobile Home Park RO WTP (Snowbirdland Vistas, Inc.)

Address: 1200 East Colonia Lane

City: Nokomis County: Sarasota

Contact/District: Lori Pillsbury / SW Dist.

NPDES Permit #: FL 0041785

LIMS Job #: TLH-2006-01-31-05 LIMS Sample #: 8960011

Lims Data Entry: 2-3-06 SP Data Entry Verification: MF 2/3/06

Sample Collection: Date: 1-30-06 Time: 10:45

Hold Time Start: Date: 1-30-06 Time: 10:45

Comments:
Tests run with 25% effluent (screen) per permit language. SP

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:
Control survival ≥90%: (Yes) No
Temperature Range ≤3°C: (Yes) No
Test 1: SOP TA 07_03

Test 2 validation:
Control survival ≥90%: (Yes) No
Temperature Range ≤3°C: (Yes) No
Test 2: SOP TA 07_04

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: ____

Temperature Range °C
Incubator # 2 Range 24.7 - 26.7°C
Room B246: 23.6 - 24.8 °C
Waterbath: N/A

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
Sarah Pritchard
Erin McCurdy
Brad Anderson
Marshall Faircloth
for Dave
Nicole Keller-Lee
REVIEWER

Water Quality Parameters	20% DMW	Moderately Hard Water/ Well Water	Salt Water (ASW) NSW Test 1	Salt Water (ASW) NSW Test 2	Other:	Original Sample	Method	Measured by	Verified by
Field Total Residual Cl2 (mg/L)	N/A	N/A	N/A	N/A		not measured	–	SP	
Lab Total Residual Cl2 (mg/L)			<0.03	<0.03		<0.03	HACH	EW/SP	MF
Alkalinity (mg/L as $CaCO_3$)			204	209		156.5	HACH	SP	SP
Hardness (mg/L as $CaCO_3$)			—	—		—	HACH	—	—
Total Ammonia (mg/L as N)			<0.034	<0.034		0.672	DENVER	MF	SP
Salinity (ppth)			~20	~20		3.08	YSI / Mettler	SP	MF

V 1.4 9/12/05

Appendix 2. Bench Sheets (continued)

FDEP Biology Section - Bioassay Survival Sheet

LIMS Sample #: 8960011 ~~89(ACO7~~ sf
Organism: A. bahia
Organism Batch: 9-06
Organism Age: 4 days
Chamber Size: 1000 mL
Test Volume: 500 mL

Test #: 1
SOP #: TA 07_03
Diluent/ Batch: ASW 1 3-06
Food: YCT P. *subcapitata* *Artemia*
Batch: - - GSL-536-90
Feeding: (Prior to test) - Prior to renewal - (Daily)

Test Started: Date 1-31-06 Time: 1335
Test Ended: Date 2-2-06 Time: 1350

Concentration	Chamber ~~Replicate~~ sp	Replicate ~~Chamber #~~	0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
CTRL	C17	A	5	5	5			
	C18	B	5	5	5			
	C19	C	5	5	5			
	C20	D	5	5	5			
25%	C21	A	5	4/D	3/D			
	C22	B	5	5	5			
	C23	C	5	5	5			
	C24	D	5	5	5			
Organisms loaded by: JD		Checked by: [redacted]		JD	JD			

Loading Verified by: SP

Comments:

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

Test Results: 25%
% mortality in ~~100%~~ sample: 10
LC_{50}: >25 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).

V 2.1 11/01/2005

Page 000062

FDEP Biology Section - Bioassay Survival Sheet

LIMS Sample #: 896011 (~~896001~~)

Organism: M. beryllina

Organism Batch: 9-06

Organism Age: 10 days

Chamber Size: 1000 mL

Test Volume: 500 mL

Test #: 2

SOP #: TA 07_04

Diluent/ Batch: ASW / 3-06

Food: YCT, P. subcapitata, Artemia

Batch: ~~4-06~~ – GSL-536-90

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

Test Started: Date 1-31-06 Time: 1320

Test Ended: Date 2.2.06 Time: 1700

Concentration	Replicate	Chamber #	Test Hour: 0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
CTRL	A	D9	5	5	5			
	B	D10	5	5	5			
	C	D11	5	5	5			
	D	D12	5	5	5			
25%	A	D13	5	5	5			
	B	D14	5	5	5			
	C	D15	5	5	5			
	D	D16	5	5	5			
Organisms loaded by: JD Loading Verified by: JP		Checked by:	[redacted]	JD	JD			

Comments:

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

Test Results: 25%

% mortality in ~~100%~~ sample: 0

LC_{50}: >25 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).

V 2.1 11/01/2005

Page 000063

FDEP Biology Section - Bioassay Parameter Sheet

LIMS Sample # : 896091 Test #: 1 of 2

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

Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	8.0	8.0	7.9			
Temperature °C	25.2	24.5	24.1			
Dissolved Oxygen mg/L	7.0	6.0	5.9			
Conductivity µmhos (mmhos)	33.0	32.9	33.8			
(initials) Measured by:	[illegible]	[illegible]	[illegible]			
(initials) Recorded by:	[illegible]	[illegible]	[illegible]			

Comments:

Concentration 25%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	8.1	8.0	7.9			
Temperature °C	25.2	24.7	24.4			
Dissolved Oxygen mg/L	7.1	5.9	5.3			
Conductivity µmhos (mmhos)	26.7	26.9	27.5			
(initials) Measured by:	[illegible]	[illegible]	[illegible]			
(initials) Recorded by:	[illegible]	[illegible]	[illegible]			

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 Section - Bioassay Parameter Sheet

LIMS Sample # : 896011 **Test #:** 2 of 2

TEST SOP #: TA07_04 **Test Species:** *Ceriodaphnia dubia* *Cyprinella leedsi* *Pimephales promelas* *Americamysis bahia* (*Menidia beryllina*) Other:_____

Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	8.0	8.0	8.0			
Temperature °C	25.0	24.0	24.0			
Dissolved Oxygen mg/L	7.0	6.7	6.7			
Conductivity µmhos (mmhos)	33.0	330	332			
(initials) Measured by:	[illegible]	[illegible]	[illegible]			
(initials) Recorded by:	[illegible]	[illegible]	[illegible]			

Comments:

Concentration 25%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	8.1	8.1	8.0			
Temperature °C	25.1	24.1	24.0			
Dissolved Oxygen mg/L	7.1	6.3	6.3			
Conductivity µmhos (mmhos)	26.7	26.8	27.3			
(initials) Measured by:	[illegible]	[illegible]	[illegible]			
(initials) Recorded by:	[illegible]	[illegible]	[illegible]			

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



Appendix 3. SRT Bench Sheets and Statistical Analysis

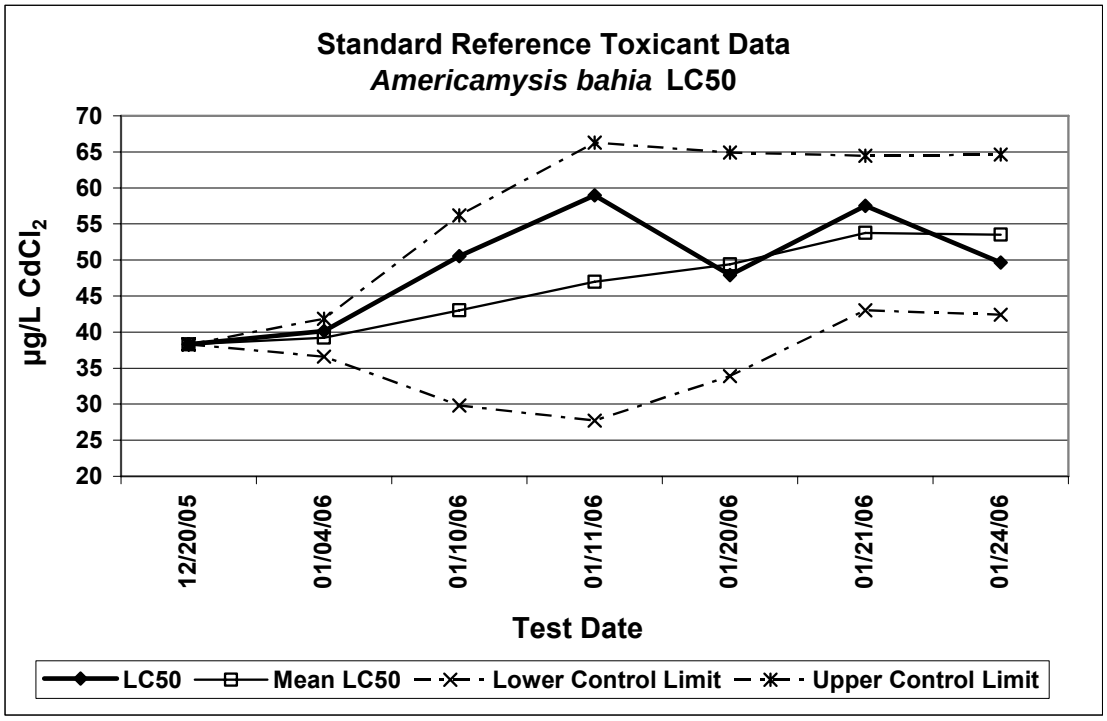
Florida Department of Environmental Protection
Bureau of Laboratories

Standard Reference Toxicant (SRT) Test Data - Acute Toxicity
Americamysis bahia (mysid shrimp) - Cadmium Chloride (CdCl2)

Date	LC50	Mean LC50	Std Dev	Lower Control Limit	Upper Control Limit
12/20/05	38.30	38.30	-	38.30	38.30
01/04/06	40.16	39.23	1.32	36.60	41.86
01/10/06	50.55	43.00	6.60	29.80	56.21
01/11/06	58.98	47.00	9.64	27.72	66.27
01/20/06	47.91	49.40	7.76	33.88	64.92
01/21/06	57.54	53.75	5.36	43.03	64.46
01/24/06	49.65	53.52	5.55	42.42	64.62

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

CV = 10.37
EPA reference 75th quartile CV = 26%



*Fewer than 20 points are charted due to recent initiation of SRT testing using $CdCl_2$.

Appendix 3. (continued)

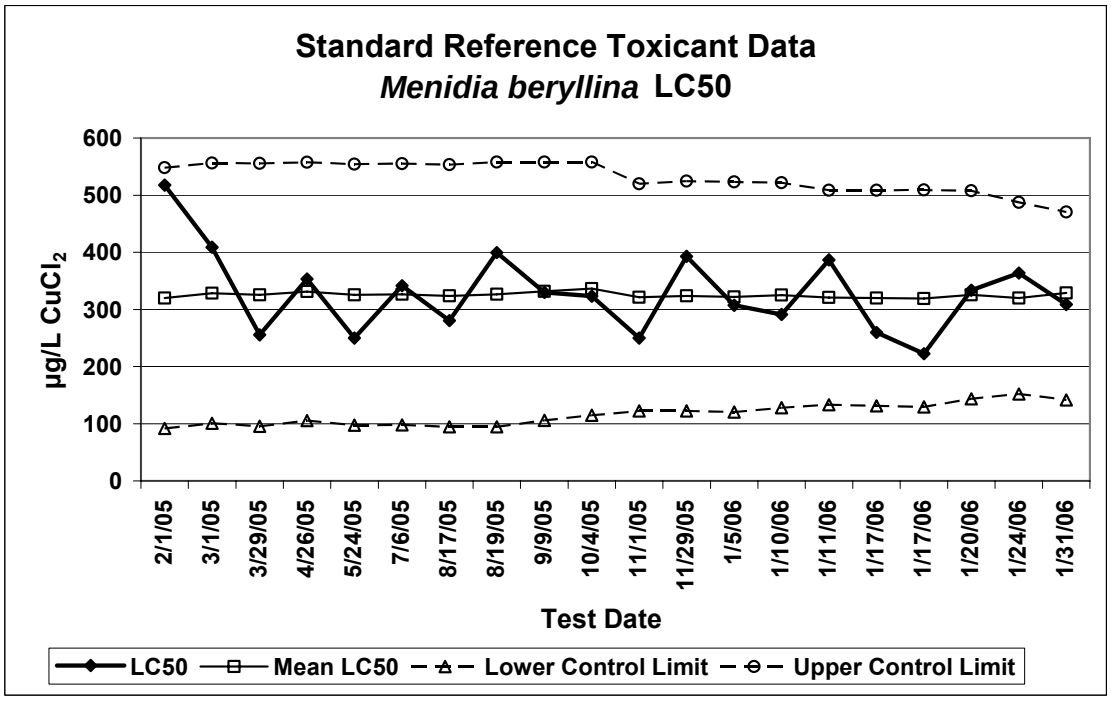
Florida Department of Environmental Protection
Bureau of Laboratories

Standard Reference Toxicant (SRT) Test Data - Acute Toxicity
Menidia beryllina (inland silverside) - Copper Chloride ($CuCl_2$)

Date	LC50	Mean LC50	Std Dev	Lower Control Limit	Upper Control Limit
2/1/05	517.63	319.89	114.13	91.63	548.14
3/1/05	409.10	328.68	113.88	100.93	556.43
3/29/05	255.31	325.46	115.05	95.36	555.55
4/26/05	353.55	331.47	113.10	105.27	557.67
5/24/05	250.00	325.88	114.28	97.32	554.44
7/6/05	341.51	326.46	114.33	97.80	555.12
8/17/05	280.62	324.00	114.78	94.43	553.56
8/19/05	399.46	326.40	115.88	94.63	558.16
9/9/05	329.88	331.94	113.09	105.75	558.13
10/4/05	323.49	336.45	110.73	115.00	557.90
11/1/05	250.00	321.21	99.50	122.21	520.21
11/29/05	392.98	323.59	100.67	122.25	524.94
1/5/06	307.20	321.88	100.64	120.60	523.16
1/10/06	291.06	325.02	98.52	127.97	522.07
1/11/06	386.80	320.91	93.81	133.29	508.53
1/17/06	259.80	319.91	94.38	131.15	508.67
1/17/06	222.49	319.26	95.03	129.21	509.32
1/20/06	333.67	325.74	91.10	143.54	507.94
1/24/06	363.93	319.79	83.89	152.01	487.57
1/31/06	308.77	328.86	70.76	141.52	470.39

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

CV = 21.52
EPA reference 75th quartile CV = 21%



Appendix 3. (continued)

FDEP Biology Section - 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: Screening / Definitive
(Static) Static Renewal

[redacted]

Diluent/ Batch#: ASW / 12 C09
Toxicant/ Batch#: CdCl2 / 12-06

Test Beginning: Date: 1-24-06 Time: 1300
Test Ending: Date: 1-26-06 Time: 1300

Water Quality Parameters:	Diluent	Method
Total Residual Cl: (mg/L)	<0.3	Hach
Alkalinity (mg/L as $CaCO_3$):	212	Hach
Hardness (mg/L as CaCO3):	–	Hach
Total Ammonia (mg/L as N): 2.034 ~~0.017~~		Denver
Salinity (ppth)	20	Mettler

Organism Batch #/ Age: 7-AC / 4 days
Feeding: (Prior to test) / Prior to renewal (Daily)
Food: YCT – *P.subcapitata* – Artemia GSL-536-90
Food Batch: – – –
Chamber size: 1000 mL
Test volume: 500 mL per replicate

Conc. (µg/L) g/L	Rep.	Chamber#	Number Live 0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr	pH (SU) 0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr	Temperature (° C) 0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr	D.O. (mg/l) 0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr	UNCORRECTED Cond. (mmhos/cm) Cond. (µmhos/cm) 0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr
Control	A	G1	5	5	5	8.1			25.2			7.1			32.6		
	B	G2	5	5	5		8.1			24.9			5.2			33.3	
	C	G3	5	5	5			8.0			24.6			4.4			33.5
	D	G4	5	5	5												
20	A	G5	5	5	5	8.1			25.0			7.2			32.5		
	B	G6	5	5	5		8.1			24.1			4.5			34.0	
	C	G7	5	5	5			8.0			24.4			4.9			33.9
	D	G8	5	5	5												
30	A	G9	5	5	5	8.1			24.5			7.2			32.5		
	B	G10	5	5	5		8.1			24.2			4.9			33.2	
	C	G11	5	5	5			8.0			24.1			5.2			33.5
	D	G12	5	5	5												
45	A	G13	5	5	3 2D	8.2			24.4			7.3			32.5		
	B	G14	5	5	4 0D		8.1			24.4			5.0			32.8	
	C	G15	5	5	4 0D			8.0			24.2			5.5			33.5
	D	G16	5	5	2 0D												
67	A	G17	5	4	0 0D	8.2			24.4			7.3			32.6		
	B	G18	5	5	0 0D		8.1			24.9			4.8			33.1	
	C	G19	5	5	1 0D			8.0			24.3			5.2			33.8
	D	G20	5	5	1 0D												
100	A	G21	5	5	0 0D	8.2			24.6			7.3			32.6		
	B	G22	5	5	0 0D		8.1			24.7			4.9			32.7	
	C	G23	5	5	0 0D			8.1			24.8			5.2			33.7
	D	G24	5	5	0 0D												
	A																
	B																
	C																
	D																
Loaded / measured by:			TD	SF	RB	SF	RB	RB	SF	RB	RB	SF	RB	RB	SF	RB	RB
Recorded by:			RB	SF	RB	SF	RB	RB	SF	RB	RB	SF	RB	RB	SF	RB	RB

Investigators' Signatures
Brad Richardson
Frank Rowland
Marshall Faircloth
Jana Lamb

Mark Mettler
REVIEWER

Concentrations prepared by: MF
Loading verified by: RB
Light Intensity: 50-100 Ft. candles (yes) no)
Photoperiod: 16 hours Light / 8 hours dark (yes) no)
Temperature Range °C:
Incubator # 2 min. 24.6 max. 25.1 mean 24.9
Incubator # NA min. ____ max. ____ mean ____
Room B246 min. 23.9 max. 25.4 mean 24.1

Remarks:

Statistical Results: Method: Spearman-Karber
(48) 96 hour LC50: 49.65
95% Confidence Interval: lower 42.38 upper 54.93

Revised 01/23/06

Page 00021

Appendix 3. (continued)

FDEP Biology Section - 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: Screening (Definitive) Static (Static Renewal)

Diluent/ Batch#: ASW 13-06
Toxicant/ Batch#: $CuCl_2$ 12-06

Test Beginning: Date: 1-31-06 Time: 1220
Test Ending: Date: 2-2-06 Time: 1330

Water Quality Parameters:	Diluent	Method
Total Residual Cl_2 (mg/L):	<0.05	Hach
Alkalinity (mg/L as $CaCO_3$):	210	Hach
Hardness (mg/L as CaCO3):	—	Hach
Total Ammonia (mg/L as N):	<0.034	Denver
Salinity (ppth):	26.7	Mettler

Organism Batch #/ Age: 906 / 10d 4h
Feeding: (Prior to test) Prior to renewal / Daily
Food: YCT — P.*subcapitata* — Artemia —
Food Batch: — — GSL 536-90
Chamber size: 1000 mL
Test volume: 500 mL per replicate

Conc. µg/L g/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 Cond. (mmhos/cm) Cond. (µmhos/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	B1	10	10	10	8.2		8.0	24.3		24.0	6.8		5.8	32.7		34.2
	B	B2	10	10	10		8.1			24.8			4.6			33.7	
	C																
	D																
100	A	B3	10	10	10	8.2		8.0	24.6	~~24.0~~	24.9	7.0	—	5.5	32.7		34.0
	B	B4	10	10	10		8.1			24.0			4.7			33.3	
	C																
	D																
200	A	B5	10	9 1D	9	8.2		8.0	24.8		25.0	7.0		5.5	32.7		34.1
	B	B6	10	10	10		8.1			24.0			5.6			33.0	
	C																
	D																
300	A	B7	10	8 2D	8	8.2		8.1	24.9		26.0	6.9		5.8	32.6		34.9
	B	B8	10	6 4D	4 3D		8.1			24.0			5.6			33.5	
	C																
	D																
400	A	B9	10	5 5D	0 5D	8.2		8.1	25.1		25.9	7.0		5.7	32.5		33.5
	B	B10	10	5 5D	4 1D		8.2			24.1			5.1			33.6	
	C																
	D																
500	A	B11	10	1 4D	0 1D	8.2		8.1	25.2		25.9	6.9		6.3	32.4		34.4
	B	B12	10	0 10D	—		8.2			25.0			5.3			34.0	
	C																
	D																
	A																
	B																
	C																
	D																
Loaded / measured by:			JD		JD	SP		SP	SP		JD	SP		SP	SP		JD
Recorded by:			SP		JD	SP		SP	SP		JD	SP		SP	SP		SP

Investigators' Signatures
Jacob Pickard
Jessica Dozier
Marshall Faircloth
Brad Nickle
Nicole Wolkoff
REVIEWER

Concentrations prepared by: MF
Loading verified by: MF
Light Intensity: 50-100 Ft. candles (yes) no)
Photoperiod: 16 hours Light / 8 hours dark (yes) no)
Temperature Range °C:
Incubator # 2 min. 24.6 max. 24.9 mean ~~24.6~~ 24.7 DT
Incubator # ____ min. ____ max. ____ mean ____
Room B246 min. 23.1 max. 25.0 mean 24.4

Remarks:

Statistical Results: Method: Spearman-Karber
(48) / 96 hour LC50: 308.77
95% Confidence Interval: lower 278.40 upper 342.46

Revised 01/23/06

Appendix 3. (continued)

Americamysis bahia Acute Standard Reference Toxicant Test

START DATE: 01-24-06 END DATE: 01-26-06 DURATION: 48 h
TOXICANT : CdCl2

RAW DATA: Concentration (ug/L)	Number Exposed	Mortalities
0.00	20	0
20.00	20	0
30.00	20	0
45.00	20	7
67.00	20	18
100.00	20	20

SPEARMAN-KARBER TRIM: .00%

SPEARMAN-KARBER ESTIMATES: LC50: 49.65
95% LOWER CONFIDENCE: 44.88
95% UPPER CONFIDENCE: 54.93

Menidia beryllina Acute Standard Reference Toxicant Test

START DATE: 1-31-00 END DATE: 2-2-06 DURATION: 48 h
TOXICANT : CuCl2

RAW DATA: Concentration --- ---- (ug/L)	Number Exposed	Mortalities
0.00	20	0
100.00	20	0
200.00	20	1
300.00	20	8
400.00	20	16
500.00	20	20

SPEARMAN-KARBER TRIM: .00%

SPEARMAN-KARBER ESTIMATES: LC50: 308.77
95% LOWER CONFIDENCE: 278.40
95% UPPER CONFIDENCE: 342.46

Appendix 4. Test Organism Receipts

Aquatic Indicators, Inc.

P.O. Box 632 • St. Augustine, FL 32085-0632 • (904) 829-2780

Date 1-23-06

Species:

1. M. bahia
2. M. beryllina
3.

Total Supplied:

1. 150 + 80 @ 15°/oo
2. 240 @ 20°/oo + 40 @ 10°/oo
3.

Brood Description:

1. EPA
2. EPA
3.

Age:

1. 3 days
2. 10 days
3.

Environmental Regime	Feeding:	Zooplankton Artemia NH ✓	Photo:	L 16	D 8
P.H.: 8.1	Temp:	25°C	Salinity:	20‰	

Comments:

Thanks.

Appendix 4. (continued)

Aquatic Indicators, Inc.

P.O. Box 632 • St. Augustine, FL 32085-0632 • (904) 829-2780

Date 1-30-06

Species:

1. M. bahia
2. M. berylline
3.

Total Supplied:

1. 100
2. 120 @ 8 days + 120 @ 9 days
3.

Brood Description:

1. EPA
2. EPA
3.

Age:

1. 3 days
2. see above
3.

Environmental Regime	Feeding:	Zooplankton Artemia NH	Photo:	L 16	D 8
P.H.: 8.1	Temp:	25°C	Salinity:	20‰	

Comments:

Thanks.

Appendix 5. Chemical Analyses performed on the effluent from the Bay Lakes Estates Mobile Home Park Reverse Osmosis Water Treatment Plant Outfall D-001, sampled on January 30, 2006.

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
1/30/2006 10:45	OUTFALL D001	Bio-AGP/LimNut	Algal Growth Potential	1.29	mg DryWt/L		0.3	0.9
1/30/2006 10:45	OUTFALL D001	Bio-BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	0.2	mg/L	U	0.2	2.0
1/30/2006 10:45	OUTFALL D001	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
1/30/2006 10:45	OUTFALL D001	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	1.5	ug/L	U	1.5	4.5
1/30/2006 10:45	OUTFALL D001	Bio-Toxicology	Bioassay-Acute-Screen-SW-Fish, LC50	25	LC50	L		
1/30/2006 10:45	OUTFALL D001	Bio-Toxicology	Bioassay-Acute-Screen-SW-Mysid, LC50	25	LC50	L		
1/30/2006 11:02	FIELD BLANK	BNA-Water	1,2,4-Trichlorobenzene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	1,2-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	1,3-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	1,4-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	2,4,6-Trichlorophenol	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	2,4-Dichlorophenol	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
1/30/2006 11:02	FIELD BLANK	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	57
1/30/2006 11:02	FIELD BLANK	BNA-Water	2,4-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	2,6-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	2-Chloronaphthalene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	2-Chlorophenol	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	11
1/30/2006 11:02	FIELD BLANK	BNA-Water	2-Nitrophenol	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
1/30/2006 11:02	FIELD BLANK	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
1/30/2006 11:02	FIELD BLANK	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7
1/30/2006 11:02	FIELD BLANK	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
1/30/2006 11:02	FIELD BLANK	BNA-Water	4-Bromophenyl phenyl ether	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	4-Chloro-3-methylphenol	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.6
1/30/2006 11:02	FIELD BLANK	BNA-Water	4-Nitrophenol	14	ug/L	U	14	57
1/30/2006 11:02	FIELD BLANK	BNA-Water	Acenaphthene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	Acenaphthylene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7
1/30/2006 11:02	FIELD BLANK	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
1/30/2006 11:02	FIELD BLANK	BNA-Water	Anthracene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	Benzidine	95	ug/L	U	95	380
1/30/2006 11:02	FIELD BLANK	BNA-Water	Benzo(a)anthracene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	Benzo(a)pyrene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	Benzo(b)fluoranthene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	Benzo(g,h,i)perylene	0.95	ug/L	U	0.95	3.8

Appendix 5. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
1/30/2006 11:02	FIELD BLANK	BNA-Water	Benzo(k)fluoranthene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
1/30/2006 11:02	FIELD BLANK	BNA-Water	Bis(2-chloroethoxy)methane	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	Bis(2-chloroethyl)ether	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	11
1/30/2006 11:02	FIELD BLANK	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57
1/30/2006 11:02	FIELD BLANK	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
1/30/2006 11:02	FIELD BLANK	BNA-Water	Chrysene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7
1/30/2006 11:02	FIELD BLANK	BNA-Water	Dibenzo(a,h)anthracene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
1/30/2006 11:02	FIELD BLANK	BNA-Water	Diethyl phthalate	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
1/30/2006 11:02	FIELD BLANK	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
1/30/2006 11:02	FIELD BLANK	BNA-Water	Di-n-octyl phthalate	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
1/30/2006 11:02	FIELD BLANK	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
1/30/2006 11:02	FIELD BLANK	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
1/30/2006 11:02	FIELD BLANK	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.7
1/30/2006 11:02	FIELD BLANK	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
1/30/2006 11:02	FIELD BLANK	BNA-Water	Fluoranthene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	Fluorene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
1/30/2006 11:02	FIELD BLANK	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.7
1/30/2006 11:02	FIELD BLANK	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7
1/30/2006 11:02	FIELD BLANK	BNA-Water	Hexachlorobenzene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	11
1/30/2006 11:02	FIELD BLANK	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	UJ	2.9	11
1/30/2006 11:02	FIELD BLANK	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	11
1/30/2006 11:02	FIELD BLANK	BNA-Water	Indeno(1,2,3-cd)pyrene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	Isophorone	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	Naphthalene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.6
1/30/2006 11:02	FIELD BLANK	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.6
1/30/2006 11:02	FIELD BLANK	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.6
1/30/2006 11:02	FIELD BLANK	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	11
1/30/2006 11:02	FIELD BLANK	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	11
1/30/2006 11:02	FIELD BLANK	BNA-Water	Phenanthrene	0.95	ug/L	U	0.95	3.8
1/30/2006 11:02	FIELD BLANK	BNA-Water	Phenol	0.95	ug/L	U	0.95	3.8

Appendix 5. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
1/30/2006 11:02	FIELD BLANK	BNA-Water	Pyrene	0.95	ug/L	U	0.95	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	1,2,4-Trichlorobenzene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	1,2-Dichlorobenzene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	1,3-Dichlorobenzene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	1,4-Dichlorobenzene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	2,4,6-Trichlorophenol	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	2,4-Dichlorophenol	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	2,4-Dimethylphenol	47	ug/L	U	47	190
1/30/2006 10:45	OUTFALL D001	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	57
1/30/2006 10:45	OUTFALL D001	BNA-Water	2,4-Dinitrotoluene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	2,6-Dinitrotoluene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	2-Chloronaphthalene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	2-Chlorophenol	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	2-Methyl-4,6-dinitrophenol	2.8	ug/L	U	2.8	11
1/30/2006 10:45	OUTFALL D001	BNA-Water	2-Nitrophenol	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
1/30/2006 10:45	OUTFALL D001	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
1/30/2006 10:45	OUTFALL D001	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7
1/30/2006 10:45	OUTFALL D001	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
1/30/2006 10:45	OUTFALL D001	BNA-Water	4-Bromophenyl phenyl ether	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	4-Chloro-3-methylphenol	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.5
1/30/2006 10:45	OUTFALL D001	BNA-Water	4-Nitrophenol	14	ug/L	U	14	57
1/30/2006 10:45	OUTFALL D001	BNA-Water	Acenaphthene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Acenaphthylene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7
1/30/2006 10:45	OUTFALL D001	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
1/30/2006 10:45	OUTFALL D001	BNA-Water	Anthracene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Benzidine	94	ug/L	U	94	380
1/30/2006 10:45	OUTFALL D001	BNA-Water	Benzo(a)anthracene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Benzo(a)pyrene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Benzo(b)fluoranthene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Benzo(g,h,i)perylene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Benzo(k)fluoranthene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
1/30/2006 10:45	OUTFALL D001	BNA-Water	Bis(2-chloroethoxy)methane	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Bis(2-chloroethyl)ether	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Bis(2-chloroisopropyl)ether	2.8	ug/L	U	2.8	11
1/30/2006 10:45	OUTFALL D001	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57

Appendix 5. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
1/30/2006 10:45	OUTFALL D001	BNA-Water	Butyl benzyl phthalate	4.7	ug/L	U	4.7	19
1/30/2006 10:45	OUTFALL D001	BNA-Water	Chrysene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7
1/30/2006 10:45	OUTFALL D001	BNA-Water	Dibenzo(a,h)anthracene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
1/30/2006 10:45	OUTFALL D001	BNA-Water	Diethyl phthalate	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Dimethyl phthalate	47	ug/L	U	47	190
1/30/2006 10:45	OUTFALL D001	BNA-Water	Di-n-butyl phthalate	4.7	ug/L	U	4.7	19
1/30/2006 10:45	OUTFALL D001	BNA-Water	Di-n-octyl phthalate	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
1/30/2006 10:45	OUTFALL D001	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
1/30/2006 10:45	OUTFALL D001	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
1/30/2006 10:45	OUTFALL D001	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.7
1/30/2006 10:45	OUTFALL D001	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
1/30/2006 10:45	OUTFALL D001	BNA-Water	Fluoranthene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Fluorene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
1/30/2006 10:45	OUTFALL D001	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.7
1/30/2006 10:45	OUTFALL D001	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7
1/30/2006 10:45	OUTFALL D001	BNA-Water	Hexachlorobenzene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Hexachlorobutadiene	2.8	ug/L	U	2.8	11
1/30/2006 10:45	OUTFALL D001	BNA-Water	Hexachlorocyclopentadiene	2.8	ug/L	UJ	2.8	11
1/30/2006 10:45	OUTFALL D001	BNA-Water	Hexachloroethane	2.8	ug/L	U	2.8	11
1/30/2006 10:45	OUTFALL D001	BNA-Water	Indeno(1,2,3-cd)pyrene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Isophorone	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Naphthalene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.5
1/30/2006 10:45	OUTFALL D001	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.5
1/30/2006 10:45	OUTFALL D001	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.5
1/30/2006 10:45	OUTFALL D001	BNA-Water	N-Nitrosodiphenylamine	2.8	ug/L	U	2.8	11
1/30/2006 10:45	OUTFALL D001	BNA-Water	Pentachlorophenol	2.8	ug/L	U	2.8	11
1/30/2006 10:45	OUTFALL D001	BNA-Water	Phenanthrene	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Phenol	0.94	ug/L	U	0.94	3.8
1/30/2006 10:45	OUTFALL D001	BNA-Water	Pyrene	0.94	ug/L	U	0.94	3.8
1/30/2006 11:02	FIELD BLANK	GC-Water	Alachlor	0.57	ug/L	U	0.57	2.3
1/30/2006 11:02	FIELD BLANK	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.19
1/30/2006 11:02	FIELD BLANK	GC-Water	Atrazine	0.048	ug/L	U	0.048	0.19
1/30/2006 11:02	FIELD BLANK	GC-Water	Azinphos Methyl	0.19	ug/L	U	0.19	0.76
1/30/2006 11:02	FIELD BLANK	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76

Appendix 5. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
1/30/2006 11:02	FIELD BLANK	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
1/30/2006 11:02	FIELD BLANK	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.19
1/30/2006 11:02	FIELD BLANK	GC-Water	Chlorpyrifos Methyl	0.095	ug/L	U	0.095	0.38
1/30/2006 11:02	FIELD BLANK	GC-Water	Diazinon	0.048	ug/L	UJ	0.048	0.19
1/30/2006 11:02	FIELD BLANK	GC-Water	Ethion	0.048	ug/L	U	0.048	0.19
1/30/2006 11:02	FIELD BLANK	GC-Water	Ethoprop	0.095	ug/L	U	0.095	0.38
1/30/2006 11:02	FIELD BLANK	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
1/30/2006 11:02	FIELD BLANK	GC-Water	Fonofos	0.095	ug/L	U	0.095	0.38
1/30/2006 11:02	FIELD BLANK	GC-Water	Hexazinone	0.095	ug/L	U	0.095	0.38
1/30/2006 11:02	FIELD BLANK	GC-Water	Malathion	0.14	ug/L	UJ	0.14	0.56
1/30/2006 11:02	FIELD BLANK	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
1/30/2006 11:02	FIELD BLANK	GC-Water	Metolachlor	0.48	ug/L	U	0.48	1.9
1/30/2006 11:02	FIELD BLANK	GC-Water	Metribuzin	0.095	ug/L	U	0.095	0.38
1/30/2006 11:02	FIELD BLANK	GC-Water	Mevinphos	0.19	ug/L	UJ	0.19	0.76
1/30/2006 11:02	FIELD BLANK	GC-Water	Naled	0.76	ug/L	UJ	0.76	3
1/30/2006 11:02	FIELD BLANK	GC-Water	Norflurazon	0.14	ug/L	U	0.14	0.56
1/30/2006 11:02	FIELD BLANK	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
1/30/2006 11:02	FIELD BLANK	GC-Water	Parathion Methyl	0.095	ug/L	U	0.095	0.38
1/30/2006 11:02	FIELD BLANK	GC-Water	Phorate	0.048	ug/L	U	0.048	0.19
1/30/2006 11:02	FIELD BLANK	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
1/30/2006 11:02	FIELD BLANK	GC-Water	Simazine	0.048	ug/L	U	0.048	0.19
1/30/2006 10:45	OUTFALL D001	GC-Water	Alachlor	0.6	ug/L	U	0.6	2.4
1/30/2006 10:45	OUTFALL D001	GC-Water	Ametryn	0.05	ug/L	U	0.05	0.2
1/30/2006 10:45	OUTFALL D001	GC-Water	Atrazine	0.05	ug/L	U	0.05	0.2
1/30/2006 10:45	OUTFALL D001	GC-Water	Azinphos Methyl	0.2	ug/L	U	0.2	0.8
1/30/2006 10:45	OUTFALL D001	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
1/30/2006 10:45	OUTFALL D001	GC-Water	Butylate	0.2	ug/L	U	0.2	0.8
1/30/2006 10:45	OUTFALL D001	GC-Water	Chlorpyrifos Ethyl	0.05	ug/L	U	0.05	0.2
1/30/2006 10:45	OUTFALL D001	GC-Water	Chlorpyrifos Methyl	0.1	ug/L	U	0.1	0.4
1/30/2006 10:45	OUTFALL D001	GC-Water	Diazinon	0.05	ug/L	UJ	0.05	0.2
1/30/2006 10:45	OUTFALL D001	GC-Water	Ethion	0.05	ug/L	U	0.05	0.2
1/30/2006 10:45	OUTFALL D001	GC-Water	Ethoprop	0.1	ug/L	U	0.1	0.4
1/30/2006 10:45	OUTFALL D001	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
1/30/2006 10:45	OUTFALL D001	GC-Water	Fonofos	0.1	ug/L	U	0.1	0.4
1/30/2006 10:45	OUTFALL D001	GC-Water	Hexazinone	0.1	ug/L	U	0.1	0.4
1/30/2006 10:45	OUTFALL D001	GC-Water	Malathion	0.15	ug/L	UJ	0.15	0.6
1/30/2006 10:45	OUTFALL D001	GC-Water	Metalaxyl	0.25	ug/L	U	0.25	1
1/30/2006 10:45	OUTFALL D001	GC-Water	Metolachlor	0.5	ug/L	U	0.5	2
1/30/2006 10:45	OUTFALL D001	GC-Water	Metribuzin	0.1	ug/L	U	0.1	0.4

Appendix 5. Chemical Analyses (continued)

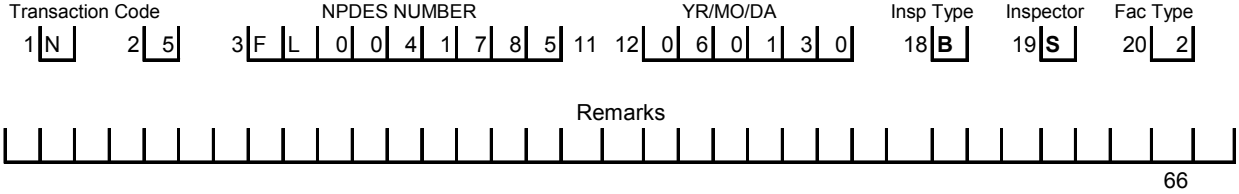
Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
1/30/2006 10:45	OUTFALL D001	GC-Water	Mevinphos	0.2	ug/L	UJ	0.2	0.8
1/30/2006 10:45	OUTFALL D001	GC-Water	Naled	0.8	ug/L	UJ	0.8	3.2
1/30/2006 10:45	OUTFALL D001	GC-Water	Norflurazon	0.15	ug/L	U	0.15	0.6
1/30/2006 10:45	OUTFALL D001	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
1/30/2006 10:45	OUTFALL D001	GC-Water	Parathion Methyl	0.1	ug/L	U	0.1	0.4
1/30/2006 10:45	OUTFALL D001	GC-Water	Phorate	0.05	ug/L	U	0.05	0.2
1/30/2006 10:45	OUTFALL D001	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
1/30/2006 10:45	OUTFALL D001	GC-Water	Simazine	0.05	ug/L	U	0.05	0.2
1/30/2006 11:02	FIELD BLANK	Metals-Water	Aluminum	5	ug/L	U	5	20
1/30/2006 11:02	FIELD BLANK	Metals-Water	Arsenic	4	ug/L	U	4	16
1/30/2006 11:02	FIELD BLANK	Metals-Water	Cadmium	0.05	ug/L	U	0.05	0.2
1/30/2006 11:02	FIELD BLANK	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
1/30/2006 11:02	FIELD BLANK	Metals-Water	Chromium	2	ug/L	U	2	8
1/30/2006 11:02	FIELD BLANK	Metals-Water	Copper	0.25	ug/L	U	0.25	1
1/30/2006 11:02	FIELD BLANK	Metals-Water	Iron	10	ug/L	U	10	40
1/30/2006 11:02	FIELD BLANK	Metals-Water	Lead	0.075	ug/L	U	0.075	0.3
1/30/2006 11:02	FIELD BLANK	Metals-Water	Magnesium	0.01	mg/L	U	0.01	0.04
1/30/2006 11:02	FIELD BLANK	Metals-Water	Nickel	1	ug/L	U	1	4
1/30/2006 11:02	FIELD BLANK	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
1/30/2006 11:02	FIELD BLANK	Metals-Water	Silver	0.025	ug/L	U	0.025	0.1
1/30/2006 11:02	FIELD BLANK	Metals-Water	Zinc	3	ug/L	U	3	12
1/30/2006 10:45	OUTFALL D001	Metals-Water	Aluminum	5	ug/L	U	5	20
1/30/2006 10:45	OUTFALL D001	Metals-Water	Arsenic	6.4	ug/L	I	4	16
1/30/2006 10:45	OUTFALL D001	Metals-Water	Cadmium	0.05	ug/L	U	0.05	0.2
1/30/2006 10:45	OUTFALL D001	Metals-Water	Calcium	824	mg/L		0.25	1
1/30/2006 10:45	OUTFALL D001	Metals-Water	Chromium	4	ug/L	U	4	16
1/30/2006 10:45	OUTFALL D001	Metals-Water	Copper	2.5	ug/L	U	2.5	10
1/30/2006 10:45	OUTFALL D001	Metals-Water	Iron	10	ug/L	U	10	40
1/30/2006 10:45	OUTFALL D001	Metals-Water	Lead	0.075	ug/L	U	0.075	0.3
1/30/2006 10:45	OUTFALL D001	Metals-Water	Magnesium	329	mg/L		0.05	0.2
1/30/2006 10:45	OUTFALL D001	Metals-Water	Nickel	1	ug/L	U	1	4
1/30/2006 10:45	OUTFALL D001	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
1/30/2006 10:45	OUTFALL D001	Metals-Water	Silver	0.025	ug/L	U	0.025	0.1
1/30/2006 10:45	OUTFALL D001	Metals-Water	Zinc	6	ug/L	U	6	24
1/30/2006 11:02	FIELD BLANK	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
1/30/2006 11:02	FIELD BLANK	Nutrients-Liquid	Kjeldahl Nitrogen	0.08	mg N/L	U	0.08	0.2
1/30/2006 11:02	FIELD BLANK	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
1/30/2006 11:02	FIELD BLANK	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
1/30/2006 11:02	FIELD BLANK	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06

Appendix 5. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
1/30/2006 10:45	OUTFALL D001	Nutrients-Liquid	Ammonia-N	0.74	mg N/L		0.05	0.1
1/30/2006 10:45	OUTFALL D001	Nutrients-Liquid	Kjeldahl Nitrogen	1.5	mg N/L	A	0.16	0.4
1/30/2006 10:45	OUTFALL D001	Nutrients-Liquid	NO2NO3-N	0.035	mg N/L		0.004	0.01
1/30/2006 10:45	OUTFALL D001	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	I	0.004	0.01
1/30/2006 10:45	OUTFALL D001	Nutrients-Liquid	Total-P	0.38	mg P/L	A	0.02	0.06
1/30/2006 10:45	OUTFALL D001	Nutrients-Liquid	TSS	4	mg/L	U	4	16
1/30/2006 10:45	OUTFALL D001	Nutrients-Liquid	Turbidity	1.1	NTU		0.05	0.05
1/30/2006 11:02	FIELD BLANK	Overflow	Alpha, Total	0.7	pCi/L	U		
1/30/2006 11:02	FIELD BLANK	Overflow	Alpha-Counting Error	0.4	pCi/L			
1/30/2006 11:02	FIELD BLANK	Overflow	Radium 226	0.2	pCi/L	U		
1/30/2006 11:02	FIELD BLANK	Overflow	Radium 226-Counting Error	0.1	pCi/L			
1/30/2006 11:02	FIELD BLANK	Overflow	Radium 228	0.8	pCi/L	U		
1/30/2006 11:02	FIELD BLANK	Overflow	Radium 228-Counting Error	0.5	pCi/L			
1/30/2006 10:45	OUTFALL D001	Overflow	Alpha, Total	62	pCi/L			
1/30/2006 10:45	OUTFALL D001	Overflow	Alpha-Counting Error	6.7	pCi/L			
1/30/2006 10:45	OUTFALL D001	Overflow	Radium 226	27	pCi/L			
1/30/2006 10:45	OUTFALL D001	Overflow	Radium 226-Counting Error	0.7	pCi/L			
1/30/2006 10:45	OUTFALL D001	Overflow	Radium 228	1.5	pCi/L			
1/30/2006 10:45	OUTFALL D001	Overflow	Radium 228-Counting Error	0.6	pCi/L			

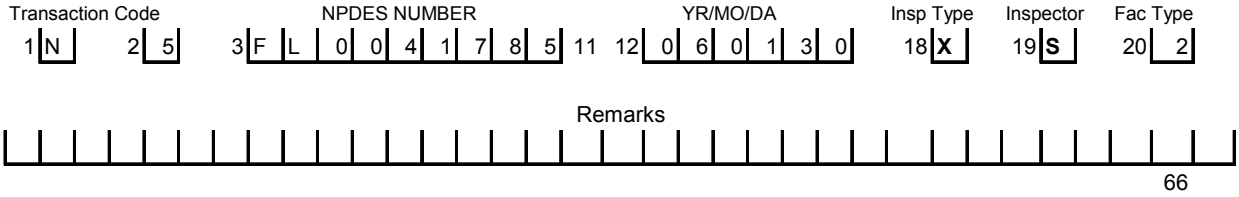
The Bioassay of Bay Lakes Estates Mobile Home Park Reverse Osmosis Water Treatment Plant effluent sampled on January 30, 2006. NPDES #FL0041785.

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



The Priority Pollutants Analysis of Bay Lakes Estates Mobile Home Park Reverse Osmosis Water Treatment Plant effluent sampled on January 30, 2006. NPDES #FL0041785.

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



Biological Analyses of Bay Lakes Estates Mobile Home Park Reverse Osmosis Water Treatment Plant effluent sampled on January 30, 2006. NPDES #FL0041785.

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

