



Effluent Quality Assessment
Plant City Water Reclamation Facility
Hillsborough County
NPDES #FL0026557
Sampled August 27, 2007

April 2008

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

Plant City Water Reclamation Facility, 705 North Alexander Street, Plant City, Hillsborough County, Florida 33563, NPDES #FL0026557. Effluent grab and composite samples for this facility were collected on August 27, 2007.

Introduction

Plant City Water Reclamation Facility is a Type-1 (permitted flow of $\geq 500,000$ gallons per day) activated-sludge domestic wastewater treatment plant. The facility has a design flow of 8.0 million gallons per day (MGD) annual average daily flow (AADF). The facility has a discharge to surface water flow limit of 2.68 MGD annual average flow (AAF). The AADF to surface water from August 1, 2006, through July 31, 2007, was 1.7524 MGD. The facility consists of: a headworks structure which includes a mechanically cleaned fine bar-screen, a backup manual bar-screen, a Pista® grit removal system and a Parshall flume flow measurement system with an associated odor control system; a master pumping station with 6 pumps; two aerated grit chambers, four aeration basins, four final settling tanks, a chlorine contact chamber, one polishing and storage pond with water hyacinths followed by a second chlorine contact chamber, a pond transfer-pumping station, an additional screening facility with mechanical and backup manual bar-screens; eight Parkson® continuous backwash up-flow filter cells, a third chlorine contact chamber (dual channel), two reclaimed water ground-storage tanks; and, a high service pumping station. A dechlorination/reaeration facility is located at the Loyd Nursery south of Knights Griffin Road to provide additional treatment prior to surface water discharge. Liquid chlorine is used for disinfection. Sulfur dioxide is used for dechlorination.

Solids treatment consists of four aerobic digesters and two belt filter presses. Stabilized residuals are land applied.

Filter backwash and effluent (from after filtration and the final chlorine contact chamber) are returned to the polishing/storage water hyacinth pond for re-treatment. Ferrous sulfate is injected into the plant process stream at the surface aerator on the effluent end of each aeration basin to aid in phosphorous removal. A polymer chemical feed is available on a standby status for solids control. Effluent quality is monitored 24 hours per day through the plant Supervisory Control and Data Acquisition (SCADA) system for turbidity using total suspended solids (TSS) and residual chlorine as a measure of disinfection effectiveness. Treated effluent that fails to meet Part III public access quality standards is directed to the polishing/storage pond, or to either the industrial user or the surface water discharge D002. Effluent that meets Part III quality standards is transferred to the Plant City public access Master Reuse System R001.

Effluent is disposed by discharge to surface water through Outfall D002 or by reuse through Land Application-R001 or Industrial Reuse-R002.

The surface water discharge is through Outfall D002 to the Class III freshwaters of East Canal followed by Itchepakesassa Creek, Blackwater Creek and finally the Hillsborough River. Outfall D002 is a box concrete structure with an energy dissipating baffle and is located at approximately latitude 28° 04' 42" N, longitude 82° 07' 19" W.

Land Application-R001 is an existing slow-rate public access Master Reuse System serving Plant City and the surrounding county (Hillsborough) areas. The permitted ultimate capacity of the system is approximately 20.0 MGD AADF applied over 7,000 acres which includes existing, proposed and potential major and minor users. The annual average flow to R001 from August 1, 2006, through July 31, 2007, was 0.98 MGD.

Industrial Reuse-R002 consists of an open cooling-tower system serving the CF Industries facility at the northern end of the service area. The permitted capacity of the system is 3.40 MGD AADF. This system is directly connected to the R001 system and normally will supply Part III quality reclaimed water for industrial usage; however, the industrial reuse R002 may also accept effluent from the Plant City WRF which has been treated to secondary treatment standards.

The facility has no administrative orders. The facility has a Consent Order (CO) concerning violations of toxicity, total nitrogen, specific conductance, thallium, and dibromochloromethane. To date, all issues have been resolved with the exception of toxicity. The facility has no mixing zones. A review of Discharge Monitoring Report (DMR) data for the past year (August 2006 – July 2007) revealed exceedences of the permitted limit (≤ 2 mg/L) for total phosphorus in nine (9) of the 12 months. (Facility information provided by Lori Pillsbury and Joe Squitieri of FDEP Southwest District.)

Methods

Effluent grab and composite samples were collected on August 27, 2007, from the EFD-01 NPDES sampling point for Outfall D002 by Lori Pillsbury, Peter Wenner and Joe Squitieri (FDEP Southwest District) following procedures in DEP-SOP-001/01 FS 2400 Wastewater Sampling. All DEP SOPs are available on the web at: <http://www.floridadep.org/labs/qa/sops.htm>.

See Appendix A for the completed chain of custody form.

The 48-hour acute screening toxicity tests and algal growth potential test were performed following internal DEP SOPs TA07_01, TA07_02, and TA08_01 through TA08_09. All internal DEP SOPs are available on the web at: <http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp>. While the 48-hour acute screening toxicity test does not reflect the permit-required conditions, the Department uses it to provide reasonable assurance that the facility does not adversely affect waters of the state.

Toxicity Test Results

Tests were performed August 28 - 30, 2007.

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

Pimephales promelas 48-hour acute screening bioassay – $LC_{50} > 100\%$, 0% mortality* in 100% sample at 48 hours

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

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

*NOTE: In a 48-hour acute screening test of 100% effluent, mortality of $<20\%$ provides 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% 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 6.6 mg dry wt/L of the unicellular green alga, *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum*. Raschke and Shultz (1987) found that AGP values above 5.0 mg dry weight/L represent a "problem" threshold for fresh receiving waters, implying nutrient enrichment. The analytical chemistry suggests that

the effluent is nitrogen-limited. The predicted AGP based on inorganic nitrogen concentrations was 2.8 ($\pm 20\%$) mg dry wt/L (Table 1; Miller et al. 1978).

See Table 1 for AGP results.

Chemistry Results

Total residual chlorine and total ammonia were not detected in the bioassay sample in the laboratory. The total ammonia concentration in the samples collected and preserved for chemical analysis was 0.032 mg/L in the grab sample and was 0.019 mg/L (method detection limit (MDL) 0.01 mg/L; practical quantitation limit (PQL) 0.02 mg/L) in the composite sample. Based on the pH, salinity, and temperature of the effluent as collected, the calculated unionized ammonia concentration was < 0.02 mg/L in both the grab and composite samples.

Bromodichloromethane, chloroform, copper, dibromochloromethane, nickel and zinc were detected in the effluent grab samples at levels that comply with Class III fresh water quality criteria (62-302.530, F.A.C.). Nickel was detected in the effluent composite sample at levels that comply with Class III fresh water quality criteria (62-302.530, F.A.C.). Iron was detected between the MDL and PQL in the effluent grab sample. Aluminum, copper, iron and zinc were detected between the MDLs and PQLs in the effluent composite sample.

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

Conclusion

The effluent sample collected from the EFD-01 NPDES sampling point for Outfall D002 for this facility on August 27, 2007 was not acutely toxic to either test species during the 48-hour acute screening bioassays. The effluent AGP result exceeded the "problem" threshold for fresh receiving waters, suggesting nutrient enrichment may be an issue. Effluent water quality samples did not exceed any applicable water quality standards or violate any permit conditions.

Literature Cited

- Miller, W. E., T. E. Maloney, and J. C. Greene. 1978. The *Selenastrum capricornutum* Printz algal assay bottle test. EPA-600/9-78-018. U. S. EPA, Cincinnati, Ohio. 126 p.
- Raschke, R. L. and D. A. Schultz. 1987. The use of the algal growth potential test for data assessment. J. Wat. Poll. Cont. Fed. 59(4): 222-227.

Table 1. Measured and predicted algal growth potential (AGP; mg dry weight/L) for total soluble inorganic nitrogen(TSIN) and total nitrogen (TN) limitation of the freshwater species *Pseudokirchneriella subcapitata*, and ratios of nitrogen to phosphorus for samples collected from Plant City Water Reclamation Facility on August 27, 2007.

Plant City Water Reclamation Facility					
Location	AGP (measured)	Predicted AGP (TSIN) ± 20%		Predicted AGP (TN) ± 20%	
Effluent	6.6	2.8	± 0.6	38.4	± 7.7
				Inorganic N:P ratio	Total N:P ratio
				0.2	2.1

Table 2. Effluent limits, Class III Freshwater Criteria, chemical and microbiological data for samples collected from Plant City Water Reclamation Facility on August 27, 2007.

Plant City Water Reclamation Facility NPDES# FL0026557	Class III Standards	Effluent Limits	Outfall D-002 Grab	Outfall D-002 Composite
Organic Constituents (µg/L)				
Bromodichloromethane	≤ 22 a	≤ 22 a	17	-
Chloroform	≤ 470.8 a	-	95	-
Dibromochloromethane	≤ 34 a	-	2.1	-
Metals (µg/L unless otherwise noted)				
Aluminum	-	-	20 U	21 I
Arsenic	≤ 50	-	0.5 U	0.5 U
Cadmium	≤ 0.5 b	-	0.02 U	0.02 U
Calcium (mg/L)	-	-	62	65
Chromium-III	≤ 151.3 b	-	1 U	1 U
Copper	≤ 16.8 b	-	3.33	0.33 I
Iron	≤ 1,000	-	32 I	34 I
Lead	≤ 7.6 b	-	0.2 U	0.2 U
Magnesium (mg/L)	-	-	10.7	11.2
Mercury	≤ 0.012	-	-	-
Nickel	≤ 93.3 b	-	2.04	1.89
Selenium	≤ 5.0	-	0.5 U	0.5 U
Silver	≤ 0.07	-	0.025 U	0.025 U
Sodium	-	-	119	-
Thallium	≤ 6.3 s	≤ 6.3 s	0.1 U	0.1 U
Zinc	≤ 214.5 b	-	24	12 I
Nutrients (mg/L)				
Organic Carbon	-	-	7.6 A	8.8 A
Ortho-phosphate	-	-	0.44	-
Total Phosphorus	-	≤ 2.0 sp	0.49	0.48
Total Ammonia	-	-	0.032	0.019 I
Un-ionized Ammonia	≤ 0.02 s	-	≤ 0.02 c	≤ 0.02 c
Nitrate and Nitrite	-	-	0.041	0.038
Total Kjeldahl Nitrogen	-	-	0.97	1.1
Organic Nitrogen	-	-	0.938 c	1.081 c
Total Nitrogen	-	≤ 6.0 sp	1.011 c	1.138 c
General Physical and Chemical Parameters				
Dissolved Oxygen (mg/L)	≥ 5.0	≥ 5.0	12.5	-
pH (SU)	6.0 - 8.5	6.0 - 8.5	7.7	-
Conductivity (µmhos/cm)	≤ 1,275	≤ 1,275	1,039	-
Temperature °C	-	-	29.5	-
Salinity	-	-	≤ 0.47 c	-
Total Residual Chlorine (mg/L)	≤ 0.01	≤ 0.01	≤ 0.01	-
Total Suspended Solids (mg/L)	-	≤ 10 sp	4 U	5 I
Turbidity (NTU)	< 29 t	-	1.4	-
CBOD, 5 day (mg/L), N - inhibited	-	≤ 10 sp	0.45 I	5.1 Q
Flow (MGD)	-	≤ 2.68 a	1.75 a	1.75 a
Hardness (mg CaCO ₃)	-	-	198.88 c	208.43 c
Microbiology (Number of colony forming units/100ml)				
Fecal Coliforms	400s or ≤ 800	≤ 86 s	1 U	-

Value exceeds the Class III Water Quality Criteria or permit limits

a - Annual average

b - Value is calculated based on hardness

c - Value is calculated

p - Permit limit is based on a 24 hour flow proportional composite sample

s - Single sample

t - Shall not exceed 29 NTUs above background

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

Q - Sample held beyond normal holding time

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

State of Florida Department of Environmental Protection
Southwest District
CHAIN OF CUSTODY RECORD

Sent Final Report To: Chief Chemist SWDistrict
 Joe Segal
 Southwest District Office, 13051 N. Toltec Pkwy., Temple Terrace, Florida 33637, Phone (813) 632-7600
 Comments:

Appendix A. (continued)

Florida Department of Environmental Protection										Event ID *	
Central Laboratory Sample Submittal Form											
Request Number: RQ-2007-08-27-36 City of Plant City WRF										Field Report Prepared By: <u>Ullsberg</u>	
Requester: <u>Shannan Bogdanov</u>										Send Final Report To: <u>Tom Gucciardo</u>	
Customer: SW-DIST											
Project ID: FY13											
PMAS: 1153											
Lab ID *	Location: <u>Outfall 0002</u>									Bottle Group(s)**	
Field ID	35506									A	
Matrix (Include type e.g. Salt, Fresh, etc)	<u>Fresh</u>										
Latitude	<u>28° 04' 22.6</u>										
Longitude	<u>82° 08' 10.5</u>										
Temp (C)	<u>24.45</u>										
pH	<u>7.73</u>										
Salinity (ppt)											
Sp Conductance (umho/cm)											
Comments	<u>Blank</u>										
Lab ID *	Location: <u>Blank</u>									Bottle Group(s)**	
Field ID	35509									C	
Matrix (Include type e.g. Salt, Fresh, etc)	<u>Fresh</u>										
Latitude											
Longitude											
Temp (C)											
pH											
Salinity (ppt)											
Sp Conductance (umho/cm)											
Comments											
Lab ID *	Location: <u>Blank</u>									Bottle Group(s)**	
Field ID	35509									C	
Matrix (Include type e.g. Salt, Fresh, etc)	<u>Fresh</u>										
Latitude											
Longitude											
Temp (C)											
pH											
Salinity (ppt)											
Sp Conductance (umho/cm)											
Comments											

Relinquished By:	Date/Time	Shipping Method:	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
<u>Shannan Bogdanov</u>	<u>08/27/07</u>	<u>DHL</u>	<u>ABG</u>	<u>8-28-07</u>	<u>Shannan Bogdanov</u>	<u>8-28-07</u>	<u>ABG</u>	<u>8-28-07</u>

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

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Appendix B. Bench Sheets

FDEP Biology Laboratory - Acute Screen Bioassay Bench Sheets

Facility: Plant City WRF Date: 8/27/07 Time: 9:35
 Address: 705 North Alexander Street Hold Time Start: Date: 8/27/07 Time: 9:35

City: Plant City County: Hillsborough
 Contact/District: Levi Pillsbury SW

NPDES Permit #: FL F10026557

LIMS Job #: 74H-2007-08-28-03-01 LIMS Sample #: 6039253

LIMS Data Entry: 8/30/07 MF Data Entry Verification: 9/30/07 J.D.

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

Test Type: Screen
 Static/Static Removal / Flow-through
 Test Duration: 48 Hours.
 Test 1 validation:
 Control survival $\geq 80\%$: Yes No
 Temperature Range $\leq 31^{\circ}\text{C}$: Yes No
 Test 2 validation:
 Control survival $\geq 80\%$: Yes No
 Temperature Range $\leq 31^{\circ}\text{C}$: Yes No

Initial sample handling:
 PH adjustment: yes no Initial pH: 7.0 NaOH 0 HCl 0 Drops mL Final pH:
 Aeration: yes no Initial DO: 7.0 mg/L Duration: 01 minutes Rate: 01
 Salinity adjusted (Test 1): yes no Initial Salinity: 0 mg/L Salts Hypersaline brine
 Salinity adjusted (Test 2): yes no Initial Salinity: 0 mg/L Salts Hypersaline brine
 Dechlorination: yes no mL of 0.025N Sodium Thiosulfate per liter of sample Final THC: 0.01

Sample Validation:
 Temperature: Shipped $\leq 5^{\circ}\text{C}$ Yes No Hand Delivered: Cooling (received $^{\circ}\text{C}$) 25.8
 Holding Time: ≤ 36 Hours Yes No (Composite-end of collection; grab when collected; 4 in 24 - line last sample collected)

Investigators' Signatures
James Daniel
Kevin M. Whitell
Donna Wolfe
 REVIEWER

Water Quality Parameters			20% DMW	Microbial fluid water	Salt Water ASW NSW Test 1	Salt Water ASW NSW Test 2	Other	Original Sample	Method	Measured by	Verified by
Field Total Residual Cl ₂ (mg/L)			N/A	N/A	N/A	N/A		20.02	PH-6	L. M. H. H. H.	MF
Lab Total Residual Cl ₂ (mg/L)			20.03	20.03				20.03	HACH	KWW	MF
Alkalinity (mg/L as CaCO ₃)			80	70				18.6	HACH	KWW	MF
Hardness (mg/L as CaCO ₃)			84	92				19.4	HACH	KWW	MF
Total Ammonia (mg/L as N)			20.017	20.017				20.017	DENVER	MF	SA
Salinity (ppt)			21	21				20.47	YSI/Mettler	SA	MF

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FDEP Biology Laboratory - Bioassay Survival Bench Sheet

LIMS Sample #: 1039253 Test #: 42 SOP#: TA 07 01 Test Started: Date: 6/28/07 Time: 1230
Organism/Batch/Age: C. dubia/65.07/124hrs Test Ended: Date: 6/30/07 Time: 1100
Chamber/Test Volume: 30 1.20 ml Diluent/ Batch: 8-24-07 1.20% DMW
Food/Batch: YCT-7-6-07 P.sub 44-07 Artemia 0hr 24hr 48hr 72hr Artemia Lot#
Feeding: Prior to Test Prior to Renewal Daily

[illegible]

Loaded/Verified by: JD / KWW Checked by: _____
m = missing d = dead BR/AR = Before/After Renewal

Test Results:

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

% mortality in 100% sample: $\emptyset$ LC50: $> 100\%$

If Calculated: 95% CI _____ Method _____

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

Comments:

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Figure 6

Concentration	Replicate	Chamber #	Test Hour					
			0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
ctrl	A	E1	5	5	5			
	B	E2	5	5	5			
	C	E3	5	5	5			
	D	E4	5	5	5			
100%	A	E5	5	5	5			
	B	E6	5	5	5			
	C	E7	5	5	5			
	D	E8	5	5	5			

Loaded/Verified by: JD / KMM

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

Test Results:

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

Checked by: JD

Comments: BA

100

Comments:

If Calculated: 95% CI _____ Method _____

V 2.1 11/01/2005

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Appendix B. (continued)

FDEP Biology Laboratory - Bioassay Parameter Bench Sheet

LIMS Sample #: 1034353

Test #: 1 of 2

TEST SOP #: TA07 of 1

Test Species: *Cautodaphnia dubia* *Cyprinella leucksi* *Pimephales promelas*

Ameletus beryllina Other:

Concentration	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	M					
pH (S.U.)	7.9		8.6			
Temperature °C	25.4		24.2			
Dissolved Oxygen mg/L	7.5		7.6			
Conductivity μ mhos	1041		1064			
(initials) Measured by:	DB		DB			
(initials) Recorded by:	DB		DB			

Comments:

Concentration	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	M					
pH (S.U.)	8.2		8.1			
Temperature °C	24.3		24.4			
Dissolved Oxygen mg/L	7.8		7.5			
Conductivity μ mhos	102		230			
(initials) Measured by:	DB		DB			
(initials) Recorded by:	DB		DB			

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 μ mhos						
(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 μ mhos						
(initials) Measured by:						
(initials) Recorded by:						

Comments:

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Appendix B. (continued)

FDEP Biology Laboratory - Bioassay Parameter Bench Sheet

LIMS Sample #: 1039253

Test #: 2 of 2

TEST SOP #: TA07_02

Test Species: *Ceriodaphnia dubia* *Cyprinella leedsii* *Pimephales promelas*
Ameletus baltica *Menidia beryllina* Other: _____

Concentration	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	8.2	7.8	8.2			
Temperature °C	25.1	24.3	24.3			
Dissolved Oxygen mg/L	8.0	8.1	7.4			
Conductivity μ mhos	341	336	350			
(initials) Measured by:	JD	BA	JD			
(initials) Recorded by:	JD	BA	JD			

Comments: 7.1 2A 8-25-07

Concentration	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	7.9	8.1	8.5			
Temperature °C	25.4	24.4	24.4			
Dissolved Oxygen mg/L	8.0	7.2	7.4			
Conductivity μ mhos	1042	1044	1036			
(initials) Measured by:	JD	BA	JD			
(initials) Recorded by:	JD	BA	JD			

Comments:

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

Comments:

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V.2.0 2/24/04

Appendix C. SRT Bench Sheets and Statistical Analysis

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

Date	LC50	Mean LC50	Std Dev	Lower Control Limit	Upper Control Limit
02/28/06	2.18	2.26	0.30	1.67	2.85
03/21/06	2.55	2.28	0.30	1.68	2.88
05/02/06	2.32	2.27	0.30	1.68	2.87
05/30/06	2.47	2.27	0.30	1.68	2.87
07/04/06	2.20	2.26	0.30	1.67	2.85
08/01/06	2.13	2.26	0.30	1.66	2.85
08/08/06	2.12	2.24	0.30	1.65	2.84
09/05/06	1.92	2.24	0.30	1.61	2.83
10/03/06	2.18	2.23	0.30	1.63	2.83
10/31/06	2.26	2.25	0.29	1.66	2.83
11/28/06	1.96	2.18	0.17	1.85	2.51
01/16/07	2.22	2.19	0.17	1.85	2.52
02/13/07	2.39	2.22	0.17	1.88	2.54
03/13/07	1.92	2.18	0.18	1.82	2.55
04/03/07	2.37	2.20	0.18	1.83	2.57
05/08/07	1.78	2.18	0.21	1.77	2.59
05/29/07	1.69	2.16	0.23	1.70	2.60
06/06/07	2.28	2.16	0.22	1.71	2.60
07/03/07	1.99	2.14	0.22	1.70	2.58
07/31/07	1.94	2.14	0.22	1.71	2.58

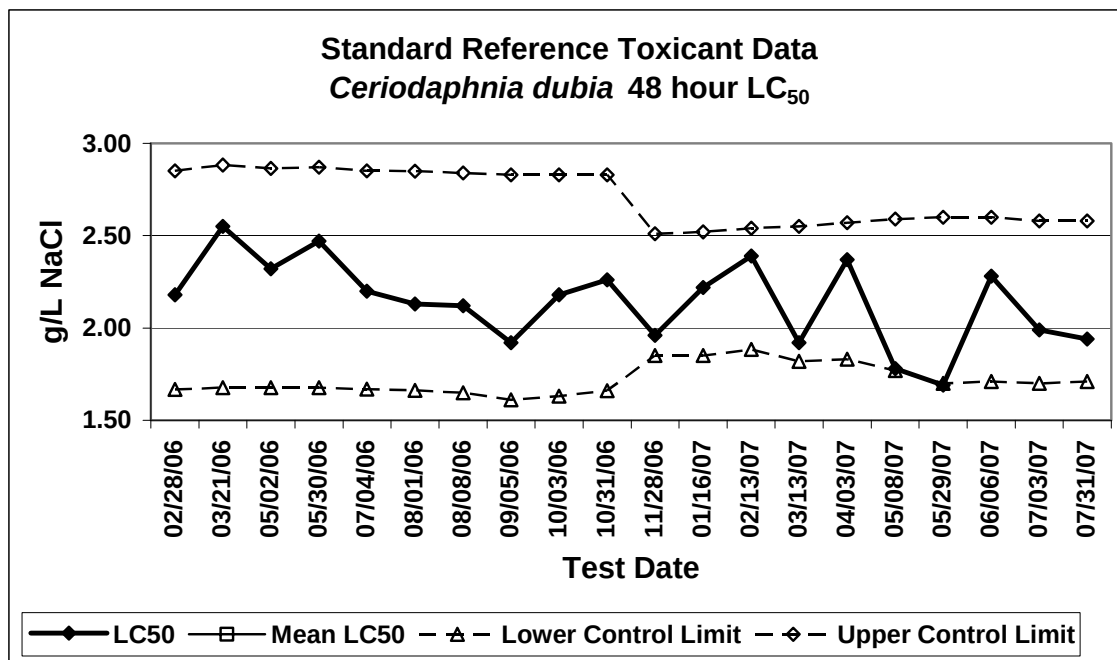
Means are of the last 20 SRT tests.

Lower Control Limit = mean - 2 * Std Dev

Upper Control Limit = mean + 2 * Std Dev

CV = 10.22

EPA reference 75th quartile CV = 29%



Appendix C. (continued)

Standard Reference Toxicant (SRT) Test Data - 48-hour Acute Toxicity

Pimephales promelas (fathead minnow) - Sodium Chloride (NaCl)

Date	LC50	Mean LC50	Std Dev	Lower Control Limit	Upper Control Limit
05/02/06	8.27	8.36	0.73	6.90	9.82
05/30/06	6.93	8.31	0.79	6.73	9.89
06/06/06	7.60	8.32	0.79	6.75	9.89
07/06/06	8.76	8.34	0.79	6.75	9.92
07/15/06	9.23	8.44	0.77	6.89	9.98
08/01/06	9.50	8.52	0.79	6.94	10.10
09/06/06	9.71	8.56	0.83	6.90	10.22
09/12/06	9.08	8.54	0.81	6.92	10.16
10/03/06	8.53	8.47	0.74	6.99	9.96
10/31/06	9.29	8.50	0.76	6.97	10.02
11/28/06	9.08	8.54	0.77	7.00	10.08
01/16/07	9.85	8.64	0.80	7.05	10.24
02/14/07	9.28	8.66	0.81	7.04	10.27
03/14/07	9.48	8.70	0.83	7.05	10.36
04/03/07	9.13	8.74	0.83	7.08	10.40
05/08/07	10.24	8.89	0.82	7.24	10.53
05/30/07	8.10	8.83	0.84	7.15	10.51
06/05/07	8.76	8.89	0.79	7.31	10.47
07/03/07	8.71	8.89	0.79	7.31	10.47
07/31/07	8.29	8.89	0.79	7.32	10.47

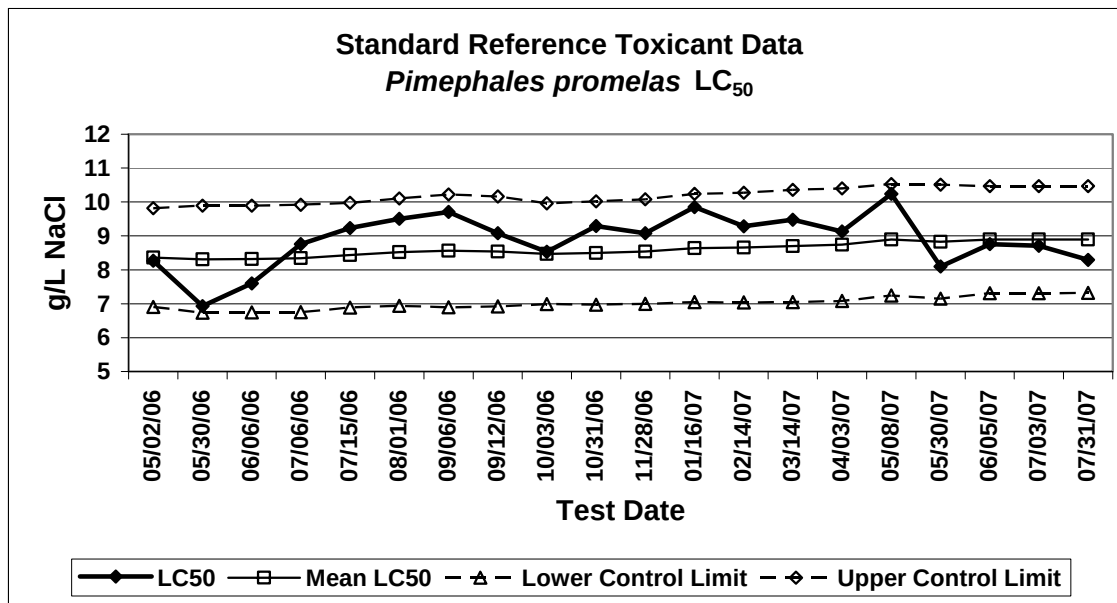
Means are of the last 20 SRT tests.

Lower Confidence Limit = mean - 2 * Std Dev

Upper Confidence Limit = mean + 2 * Std Dev

CV = 9.26

EPA reference 75th quartile CV = 19%



Appendix C. (continued)

FDEP Biology Laboratory - Acute SRT Bench Sheet

Test Organism: *Americamysis bahia* Method 2007.0 *Menidia beryllina* Method 2006.0 *Hyalella azteca* Method 100.1 EPA-800-R-99-064
Ceriodaphnia dubia Method 2002.0 *Cyprinella leedsi* Method 2000.0 *Pimephales promelas* Other: _____
Method from EPA-821-R-02-012
Test Type: 48 hour non-renewal
Test Page 1 of 2

Diluent/ Batch #: DW 1 7/3/07
Toxicant/ Batch #: NAC 1 7/3/07

Test Beginning: Date: 7/3/07 Time: 1305
Test Ending: Date: 8-4-07 Time: 0930

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl ₂ (mg/L):	20-33	Hach	BA
Alkalinity (mg/L as CaCO ₃):	85	Hach	BA
Hardness (mg/L as CaCO ₃):	86	Hach	BA
Total Ammonia (mg/L as N):	0.017	Denver	MF
Salinity (ppt):	21	Mettler	MF

Organism Batch #/ Age: 5107 / <24 hrs

Feeding: Prior to test, Prior to renewal Daily

Food: YCT P. subcapitata Artemia: Lot #

Food Batch: 1-07 1-7-07 0hr 24hr 48hr 72hr

Chamber size: 30 mL

Test volume: 20 mL per replicate

Conc. g/L μg/L mg/L	Rep.	Chamber #	Number Live			pH (SU)			Temperature (°C)			D.O. (mg/L)			Uncorrected Conductivity μmhos/cm (cmhos/cm)		
			0 hr	24 hr	48 hr	0 hr	24 hr	48 hr	0 hr	24 hr	48 hr	0 hr	24 hr	48 hr	0 hr	24 hr	48 hr
Control	A	A	5	5	5	7.9		8.0	25.0		24.7	7.5		6.8	0.173		0.955
	B	B	5	5	5												
	C	C	5	5	5												
	D	D	5	5	5												
1.5	A	A	5	5	5	8.0		8.0	25.2		24.2	7.3		6.9	2.13		3.16
	B	B	5	5	5												
	C	C	5	5	5												
	D	D	5	5	5												
2.0	A	A	5	5	1 ^{LD}	8.0		8.0	25.2		24.1	7.2		7.2	4.00		4.36
	B	B	5	5	3 ^{LD}												
	C	C	5	5	3 ^{LD}												
	D	D	5	5	1 ^{LD}												
2.5	A	A	5	5	0 ^{LD}	8.0		8.1	25.1		24.1	7.2		7.3	4.70		5.14
	B	B	5	5	4 ^{LD}												
	C	C	5	5	1 ^{LD}												
	D	D	5	5	0 ^{LD}												
3.0	A	A	5	5	0 ^{LD}	8.0		8.1	25.1		7.2		7.3	5.49		5.79	
	B	B	5	5	4 ^{LD}												
	C	C	5	5	3 ^{LD}												
	D	D	5	5	0 ^{LD}												
4.0	A	A	5	0 ^{LD}	-	8.0		8.0	25.1		24.7		7.2	6.2	7.33	7.39	-
	B	B	5	0 ^{LD}	-												
	C	C	5	0 ^{LD}	-												
	D	D	5	0 ^{LD}	-												
	A	A															
	B	B															
	C	C															
	D	D															
Loaded / measured by: MF			BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA
Recorded by: BA			BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA

Investigators' Signatures
James D. Smith
David J. Smith
Matthew J. Smith
Shirley A. Smith
REVIEWER

Concentrations prepared by: BA
Loading verified by: BA
Light Intensity: 50-100 Ft. candles
Photoperiod: 16 hours Light / 8 hours dark
Temperature Range °C:
Incubator # 2 min 25.2 max 26.3 mean 25.5
Incubator # min max mean
Room B246 min 24.8 max 26.3 mean 25.4

Comments: A 0^{LD} BA 8-2-07
④ 48 hour parameters from MF note not necessary 8-3-07
Statistics:
48 96 hour LC₅₀: 1.94 Method: Spearman-Kärber
95% Confidence Interval: lower 1.83 upper 2.06

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revised 08/24/06 SP

Appendix C. (continued)

FDEP Biology Laboratory - Acute SRT Bench Sheet

Test Organism: *Americamysis bahia* Method 2007.0 *Menidia beryllina* Method 2006.0 *Hyalella azteca* Method 100.1 EPA-800-R-99-064 Method from EPA-821-R-02-012
Ceriodaphnia dubia Method 2002.0 *Cyprinella leedsi* Method 2000.0 *Pimephales promelas* Method 2006.0
 Test Type: 48 hour non-renewal
 Test Page 1 of 2

Diluent/ Batch #: Med Hard 1 72207
 Toxicant/ Batch #: 123456 1 72207

Test Beginning: Date: 7/3/07 Time: 7:26 PM
 Test Ending: Date: 7-4-07 Time: 1:00

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl ₂ (mg/L)	0.03	Hach	NA
Alkalinity (mg/L as CaCO ₃)	86	Hach	JD
Hardness (mg/L as CaCO ₃)	109	Hach	JD
Total Ammonia (mg/L as N)	0.017	Denver	MF
Salinity (ppt)	< 1	Mettler	BA

Organism Batch #/ Age: 7-3-07 / 8 days

Feeding: Prior to test / Prior to renewal / Daily

Food: YCT *P. subcapitata* Artemia: Lot # 925680

Food Batch: 116-4724hr - 48hr 116-472hr -

Chamber size: 1000 mL

Test volume: 500 mL per replicate

Conc. μg/L mg/L	Rep.	Chamber #	Number Live			pH (SU)		Temperature (°C)			D.O. (mg/L)			Uncorrected Conductivity	
			48 hr	72 hr	96 hr	48 hr	72 hr	48 hr	72 hr	96 hr	48 hr	72 hr	96 hr	μmhos/cm	cmhos/cm
Control	A	C1	10	10	10	8.3	7.7	24.1	24.1	7.6	6.5	13.93	0.746		
	B	C2	10	10	10	7.8		24.5		6.8			0.78		
	C														
	D														
7.0	A	C3	10	10	9/10	8.1	7.7	24.4	24.3	7.4	6.5	12.2	12.3		
	B	C4	10	10	9/10	7.7		24.5		6.7			12.3		
	C														
	D														
8.0	A	C5	10	10	6/10	8.1	7.7	24.5	24.4	7.4	6.3	13.9	14.0		
	B	C6	10	9/10	9	7.8		24.5		6.7			13.9		
	C														
	D														
9.0	A	C7	10	5/10	2/10	8.1	7.7	24.5	24.4	7.4	6.3	15.5	15.5		
	B	C8	10	5/10	0/10	7.8		24.5		6.5					
	C														
	D														
10.0	A	C9	10	2/10	0/10	8.1	7.8	24.6	24.5	7.4	6.4	17.3	17.2		
	B	C10	10	1/10	0/10	7.8		24.5		6.5			17.3		
	C														
	D														
12.0	A	C11	10	0/10	-	8.1		24.7		7.4			20.2		
	B	C12	10	0/10	-	7.7		24.5		6.4			19.9		
	C														
	D														
	A														
	B														
	C														
	D														
Loaded / measured by: <u>JD</u>			<u>JD</u>	<u>JD</u>	<u>JD</u>	<u>BA</u>	<u>JD</u>	<u>BA</u>	<u>JD</u>	<u>JD</u>	<u>BA</u>	<u>JD</u>	<u>JD</u>	<u>BA</u>	<u>JD</u>
Recorded by: <u>BA</u>			<u>JD</u>	<u>JD</u>	<u>JD</u>	<u>BA</u>	<u>JD</u>	<u>BA</u>	<u>JD</u>	<u>JD</u>	<u>BA</u>	<u>JD</u>	<u>JD</u>	<u>BA</u>	<u>JD</u>

Investigators' Signatures

Paul Davis
Marshall Faircloth
Paul Davis

Shetta Wolfe
 REVIEWER

Concentrations prepared by: JD

Loading verified by: BA

Light Intensity: 50-100 Ft. candles

Photoperiod: 16 hours Light / 8 hours dark

Temperature Range °C:

Incubator # 2 min 25.2 max 26.3 mean 25.8

Incubator # min max mean

Room B246 min 24.5 max 26.3 mean 25.6

Comments:

Statistics:

96 hour LC₅₀: 8.29

95% Confidence Interval: lower 8.01 upper 8.57

Method: Spearman-Kärber

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revised 08/24/06 SP

Appendix C. (continued)

Ceriodaphnia dubia Acute Standard Reference Toxicant Test

DATE: 7/31/07 DURATION: 48 hour TOXICANT : NaCl
SPECIES: *Ceriodaphnia dubia*

RAW DATA: Concentration (g/L)	Number Exposed	Mortalities
0.00	20	0
1.50	20	0
2.00	20	12
2.50	20	19
3.00	20	20
4.00	20	20

SPEARMAN-KARBER TRIM: .00%

SPEARMAN-KARBER ESTIMATES: LC50: 1.94
95% LOWER CONFIDENCE: 1.83
95% UPPER CONFIDENCE: 2.06

Pimephales promelas Acute Standard Reference Toxicant Test

DATE: 7/31/07 DURATION: 48 hour TOXICANT : NaCl
SPECIES: *Pimephales promelas*

RAW DATA: Concentration (g/L)	Number Exposed	Mortalities
0 .00	20	0
7.00	20	2
8.00	20	5
9.00	20	18
10.00	20	20
12.00	20	20

SPEARMAN-KARBER TRIM: 10.00%

SPEARMAN-KARBER ESTIMATES: LC50: **8.29**
95% LOWER CONFIDENCE: 8.01
95% UPPER CONFIDENCE: 8.57

Appendix D. Test Organism Receipts



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

NELAC Accredited

Organism Shipment Record

State of Florida Aquaculture Certificate Number AQ0668007

Date: 8/6/07

Shipped to: FDEP

P.O. No: N/A

Species	Quantity	Age	Brood Number	Temperature	Salinity
<i>Mysidopsis bahia</i>					
<i>Menidia beryllina</i>					
<i>Cyprinella leedsi</i>					
<i>Pimephales promelas</i>	350	24 hrs	FM070806-0815	25°C	
	120	6 DAYS	FM070731	25°C	

Packed by: J

Shipped Via: FedEx

Notes: _____

Thank you for your order.

Appendix D. (continued)



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

NELAC Accredited

Organism Shipment Record

State of Florida Aquaculture Certificate Number AQ0668007

Date: 8/27/07

Shipped to: FDEP

P.O. No: N/A

Species	Quantity	Age	Brood Number	Temperature	Salinity
<i>Mysidopsis bahia</i>					
<i>Menidia beryllina</i>					
<i>Cyprinella leedsi</i>					
<i>Pimephales promelas</i>	100	7 DAYS	FM070820	25°C	

Packed by: [Signature]

Shipped Via: FedEx

Notes: _____

Thank you for your order.

Appendix E. Chemical Analyses performed on the effluent from the Plant City Water Reclamation Facility Outfall D-002, sampled on August 27, 2007.

Date Sampled	Field ID	Analysis Group	Components	Result	Remarks	Units	MDL	PQL
8/27/2007 9:35	Effluent- Grab	AGP/LN	Algal Growth Potential	6.58		mg DryWt/L	0.3	0.9
8/27/2007 9:35	Effluent- Grab	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	0.45	I	mg/L	0.2	2
8/27/2007 9:35	Effluent- Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	0.55	U	ug/L	0.55	1.7
8/27/2007 9:35	Effluent- Grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.24	U	ug/L	0.24	0.71
8/27/2007 9:35	Effluent- Grab	Toxicology	Bioassay-Acute-Screen-FW-C.dubia, LC50	100	L	LC50		
8/27/2007 9:35	Effluent- Grab	Toxicology	Bioassay-Acute-Screen-FW-Fish, LC50	100	L	LC50		
8/27/2007 9:35	Effluent- Grab	Metals	Aluminum	20	U	ug/L	20	80
8/27/2007 9:35	Effluent- Grab	Metals	Calcium	62		mg/L	0.05	0.2
8/27/2007 9:35	Effluent- Grab	Metals	Iron	32	I	ug/L	10	40
8/27/2007 9:35	Effluent- Grab	Metals	Magnesium	10.7		mg/L	0.03	0.12
8/27/2007 9:35	Effluent- Grab	Metals	Sodium	119		mg/L	0.1	0.4
8/27/2007 9:35	Effluent- Grab	Metals	Arsenic	0.5	U	ug/L	0.5	2
8/27/2007 9:35	Effluent- Grab	Metals	Cadmium	0.02	U	ug/L	0.02	0.08
8/27/2007 9:35	Effluent- Grab	Metals	Chromium	1	U	ug/L	1	4
8/27/2007 9:35	Effluent- Grab	Metals	Copper	3.33		ug/L	0.25	1
8/27/2007 9:35	Effluent- Grab	Metals	Lead	0.2	U	ug/L	0.2	0.8
8/27/2007 9:35	Effluent- Grab	Metals	Nickel	2.04		ug/L	0.25	1
8/27/2007 9:35	Effluent- Grab	Metals	Selenium	0.5	U	ug/L	0.5	2
8/27/2007 9:35	Effluent- Grab	Metals	Silver	0.025	U	ug/L	0.025	0.1
8/27/2007 9:35	Effluent- Grab	Metals	Thallium	0.1	U	ug/L	0.1	0.4
8/27/2007 9:35	Effluent- Grab	Metals	Zinc	24		ug/L	5	20
8/27/2007 9:35	Effluent- Grab	Nutrients	Turbidity	1.4		NTU	0.05	0.05
8/27/2007 9:35	Effluent- Grab	Nutrients	Color	5		PCU	5	5
8/27/2007 9:35	Effluent- Grab	Nutrients	Specific_Conductance	948		umhos/cm	2	8
8/27/2007 9:35	Effluent- Grab	Nutrients	Organic Carbon	7.6	A	mg C/L	1	5
8/27/2007 9:35	Effluent- Grab	Nutrients	Ammonia-N	0.032		mg N/L	0.01	0.02
8/27/2007 9:35	Effluent- Grab	Nutrients	NO2NO3-N	0.041		mg N/L	0.004	0.01
8/27/2007 9:35	Effluent- Grab	Nutrients	O-Phosphate-P	0.44		mg P/L	0.016	0.04
8/27/2007 9:35	Effluent- Grab	Nutrients	Kjeldahl Nitrogen	0.97		mg N/L	0.16	0.4
8/27/2007 9:35	Effluent- Grab	Nutrients	Organic Carbon	7.6		mg C/L	1	5
8/27/2007 9:35	Effluent- Grab	Nutrients	Total-P	0.49		mg P/L	0.02	0.06
8/27/2007 9:35	Effluent- Grab	Nutrients	TSS	4	U	mg/L	4	16
8/27/2007 9:35	Effluent- Grab	Overflow	Oil and Grease	1.7	U	mg/L		
8/27/2007 9:35	Effluent- Grab	Pesticides	Alachlor	0.6	U	ug/L	0.6	2.4

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Components	Result	Remarks	Units	MDL	PQL
8/27/2007 9:35	Effluent- Grab	Pesticides	Ametryn	0.05	U	ug/L	0.05	0.2
8/27/2007 9:35	Effluent- Grab	Pesticides	Atrazine	0.05	U	ug/L	0.05	0.2
8/27/2007 9:35	Effluent- Grab	Pesticides	Azinphos Methyl	0.2	U	ug/L	0.2	0.8
8/27/2007 9:35	Effluent- Grab	Pesticides	Bromacil	0.2	U	ug/L	0.2	0.8
8/27/2007 9:35	Effluent- Grab	Pesticides	Butylate	0.2	U	ug/L	0.2	0.8
8/27/2007 9:35	Effluent- Grab	Pesticides	Chlorpyrifos Ethyl	0.05	U	ug/L	0.05	0.2
8/27/2007 9:35	Effluent- Grab	Pesticides	Chlorpyrifos Methyl	0.1	U	ug/L	0.1	0.4
8/27/2007 9:35	Effluent- Grab	Pesticides	Diazinon	0.05	U	ug/L	0.05	0.2
8/27/2007 9:35	Effluent- Grab	Pesticides	Ethion	0.05	U	ug/L	0.05	0.2
8/27/2007 9:35	Effluent- Grab	Pesticides	Ethoprop	0.1	U	ug/L	0.1	0.4
8/27/2007 9:35	Effluent- Grab	Pesticides	Fenamiphos	0.2	U	ug/L	0.2	0.8
8/27/2007 9:35	Effluent- Grab	Pesticides	Fonofos	0.1	U	ug/L	0.1	0.4
8/27/2007 9:35	Effluent- Grab	Pesticides	Hexazinone	0.1	U	ug/L	0.1	0.4
8/27/2007 9:35	Effluent- Grab	Pesticides	Malathion	0.15	U	ug/L	0.15	0.6
8/27/2007 9:35	Effluent- Grab	Pesticides	Metalaxyl	0.25	U	ug/L	0.25	1
8/27/2007 9:35	Effluent- Grab	Pesticides	Metolachlor	0.5	U	ug/L	0.5	2
8/27/2007 9:35	Effluent- Grab	Pesticides	Metribuzin	0.1	U	ug/L	0.1	0.4
8/27/2007 9:35	Effluent- Grab	Pesticides	Mevinphos	0.2	U	ug/L	0.2	0.8
8/27/2007 9:35	Effluent- Grab	Pesticides	Naled	0.8	U	ug/L	0.8	3.2
8/27/2007 9:35	Effluent- Grab	Pesticides	Norflurazon	0.15	U	ug/L	0.15	0.6
8/27/2007 9:35	Effluent- Grab	Pesticides	Parathion Ethyl	0.15	U	ug/L	0.15	0.6
8/27/2007 9:35	Effluent- Grab	Pesticides	Parathion Methyl	0.1	U	ug/L	0.1	0.4
8/27/2007 9:35	Effluent- Grab	Pesticides	Phorate	0.05	U	ug/L	0.05	0.2
8/27/2007 9:35	Effluent- Grab	Pesticides	Prometryn	0.15	U	ug/L	0.15	0.6
8/27/2007 9:35	Effluent- Grab	Pesticides	Simazine	0.05	U	ug/L	0.05	0.2
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	1,2-Dichlorobenzene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	1,3-Dichlorobenzene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	1,4-Dichlorobenzene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	2,4-Dichlorophenol	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	2,4-Dimethylphenol	9.6	U	ug/L	9.6	38
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	2,4-Dinitrophenol	14	U	ug/L	14	58
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	2,4-Dinitrotoluene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	2,6-Dinitrotoluene	0.96	U	ug/L	0.96	3.8

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Components	Result	Remarks	Units	MDL	PQL
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	2-Chloronaphthalene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	2-Chlorophenol	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9	U	ug/L	2.9	12
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	2-Nitrophenol	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	3,3'-Dichlorobenzidine	38	U	ug/L	38	150
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	4,4'-DDD	1.4	U	ug/L	1.4	5.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	4,4'-DDE	1.4	U	ug/L	1.4	5.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	4,4'-DDT	1.4	U	ug/L	1.4	5.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	1.9	U	ug/L	1.9	7.7
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	4-Nitrophenol	14	U	ug/L	14	58
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Acenaphthene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Acenaphthylene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Aldrin	1.4	U	ug/L	1.4	5.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Anthracene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Benzidine	96	U	ug/L	96	380
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Benzo(a)anthracene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Benzo(a)pyrene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Benzo(b)fluoranthene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Benzo(k)fluoranthene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.9	U	ug/L	2.9	12
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	14	U	ug/L	14	58
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Butyl benzyl phthalate	4.8	U	ug/L	4.8	19
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Chrysene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Di-n-butyl phthalate	4.8	U	ug/L	4.8	19
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Di-n-octyl phthalate	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Dieldrin	1.4	U	ug/L	1.4	5.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Diethyl phthalate	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Dimethyl phthalate	48	U	ug/L	48	190
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Endosulfan I	3.8	U	ug/L	3.8	15

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Components	Result	Remarks	Units	MDL	PQL
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Endosulfan II	3.8	UJ	ug/L	3.8	15
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Endosulfan sulfate	1.4	U	ug/L	1.4	5.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Endrin	1.4	UJ	ug/L	1.4	5.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Endrin aldehyde	3.8	U	ug/L	3.8	15
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Fluoranthene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Fluorene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Heptachlor	1.4	U	ug/L	1.4	5.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Heptachlor epoxide	1.4	U	ug/L	1.4	5.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Hexachlorobenzene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Hexachlorobutadiene	2.9	U	ug/L	2.9	12
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.9	U	ug/L	2.9	12
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Hexachloroethane	2.9	U	ug/L	2.9	12
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Isophorone	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	1.9	U	ug/L	1.9	7.7
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9	U	ug/L	1.9	7.7
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.9	UJ	ug/L	2.9	12
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Naphthalene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Nitrobenzene	1.9	U	ug/L	1.9	7.7
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Pentachlorophenol	2.9	U	ug/L	2.9	12
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Phenanthrene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Phenol	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Pyrene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	alpha-BHC	1.4	U	ug/L	1.4	5.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	beta-BHC	1.4	U	ug/L	1.4	5.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	delta-BHC	1.4	U	ug/L	1.4	5.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	gamma-BHC	1.4	U	ug/L	1.4	5.8
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Bromodichloromethane	17		ug/L	0.2	1
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Bromoform	0.5	U	ug/L	0.5	2
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Chloroform	95		ug/L	0.2	1
8/27/2007 9:35	Effluent- Grab	Priority Organic Pollutants	Dibromochloromethane	2.1		ug/L	0.2	1
8/27/2007 9:35	Effluent- Grab	Field Parameter	Specific Conductance	1039		umhos/cm		
8/27/2007 9:35	Effluent- Grab	Field Parameter	Temperature	29.45		C		
8/27/2007 9:35	Effluent- Grab	Field Parameter	Total Residual Chlorine			mg/L		
8/27/2007 9:35	Effluent- Grab	Field Parameter	pH	7.73				

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Components	Result	Remarks	Units	MDL	PQL
8/27/2007 9:15	Blank	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	0.55	U	ug/L	0.55	1.7
8/27/2007 9:15	Blank	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.24	U	ug/L	0.24	0.71
8/27/2007 9:15	Blank	Metals	Aluminum	20	U	ug/L	20	80
8/27/2007 9:15	Blank	Metals	Calcium	0.05	U	mg/L	0.05	0.2
8/27/2007 9:15	Blank	Metals	Iron	10	U	ug/L	10	40
8/27/2007 9:15	Blank	Metals	Magnesium	0.03	U	mg/L	0.03	0.12
8/27/2007 9:15	Blank	Metals	Arsenic	0.5	U	ug/L	0.5	2
8/27/2007 9:15	Blank	Metals	Cadmium	0.02	U	ug/L	0.02	0.08
8/27/2007 9:15	Blank	Metals	Chromium	1	U	ug/L	1	4
8/27/2007 9:15	Blank	Metals	Lead	0.2	U	ug/L	0.2	0.8
8/27/2007 9:15	Blank	Metals	Nickel	0.25	U	ug/L	0.25	1
8/27/2007 9:15	Blank	Metals	Selenium	0.5	U	ug/L	0.5	2
8/27/2007 9:15	Blank	Metals	Silver	0.025	U	ug/L	0.025	0.1
8/27/2007 9:15	Blank	Metals	Thallium	0.1	U	ug/L	0.1	0.4
8/27/2007 9:15	Blank	Metals	Zinc	5	U	ug/L	5	20
8/27/2007 9:15	Blank	Nutrients	Ammonia-N	0.01	U	mg N/L	0.01	0.02
8/27/2007 9:15	Blank	Nutrients	NO2NO3-N	0.004	U	mg N/L	0.004	0.01
8/27/2007 9:15	Blank	Nutrients	O-Phosphate-P	0.004	U	mg P/L	0.004	0.01
8/27/2007 9:15	Blank	Nutrients	Kjeldahl Nitrogen	0.08	U	mg N/L	0.08	0.2
8/27/2007 9:15	Blank	Nutrients	Organic Carbon	1	U	mg C/L	1	5
8/27/2007 9:15	Blank	Nutrients	Total-P	0.02	U	mg P/L	0.02	0.06
8/27/2007 9:15	Blank	Overflow	Oil and Grease	1.8	I	mg/L		
8/27/2007 9:15	Blank	Pesticides	Alachlor	0.57	U	ug/L	0.57	2.3
8/27/2007 9:15	Blank	Pesticides	Ametryn	0.048	U	ug/L	0.048	0.19
8/27/2007 9:15	Blank	Pesticides	Atrazine	0.048	U	ug/L	0.048	0.19
8/27/2007 9:15	Blank	Pesticides	Azinphos Methyl	0.19	U	ug/L	0.19	0.76
8/27/2007 9:15	Blank	Pesticides	Bromacil	0.19	U	ug/L	0.19	0.76
8/27/2007 9:15	Blank	Pesticides	Butylate	0.19	U	ug/L	0.19	0.76
8/27/2007 9:15	Blank	Pesticides	Chlorpyrifos Ethyl	0.048	U	ug/L	0.048	0.19
8/27/2007 9:15	Blank	Pesticides	Chlorpyrifos Methyl	0.095	U	ug/L	0.095	0.38
8/27/2007 9:15	Blank	Pesticides	Diazinon	0.048	U	ug/L	0.048	0.19
8/27/2007 9:15	Blank	Pesticides	Ethion	0.048	U	ug/L	0.048	0.19
8/27/2007 9:15	Blank	Pesticides	Ethoprop	0.095	U	ug/L	0.095	0.38
8/27/2007 9:15	Blank	Pesticides	Fenamiphos	0.19	U	ug/L	0.19	0.76
8/27/2007 9:15	Blank	Pesticides	Fonofos	0.095	U	ug/L	0.095	0.38

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Components	Result	Remarks	Units	MDL	PQL
8/27/2007 9:15	Blank	Pesticides	Hexazinone	0.095	U	ug/L	0.095	0.38
8/27/2007 9:15	Blank	Pesticides	Malathion	0.14	U	ug/L	0.14	0.56
8/27/2007 9:15	Blank	Pesticides	Metalaxyl	0.24	U	ug/L	0.24	0.96
8/27/2007 9:15	Blank	Pesticides	Metolachlor	0.48	U	ug/L	0.48	1.9
8/27/2007 9:15	Blank	Pesticides	Metribuzin	0.095	U	ug/L	0.095	0.38
8/27/2007 9:15	Blank	Pesticides	Mevinphos	0.19	U	ug/L	0.19	0.76
8/27/2007 9:15	Blank	Pesticides	Naled	0.76	U	ug/L	0.76	3
8/27/2007 9:15	Blank	Pesticides	Norflurazon	0.14	U	ug/L	0.14	0.56
8/27/2007 9:15	Blank	Pesticides	Parathion Ethyl	0.14	U	ug/L	0.14	0.56
8/27/2007 9:15	Blank	Pesticides	Parathion Methyl	0.095	U	ug/L	0.095	0.38
8/27/2007 9:15	Blank	Pesticides	Phorate	0.048	U	ug/L	0.048	0.19
8/27/2007 9:15	Blank	Pesticides	Prometryn	0.14	U	ug/L	0.14	0.56
8/27/2007 9:15	Blank	Pesticides	Simazine	0.048	U	ug/L	0.048	0.19
8/27/2007 9:15	Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	1,2-Dichlorobenzene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	1,3-Dichlorobenzene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	1,4-Dichlorobenzene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	2,4-Dimethylphenol	9.6	U	ug/L	9.6	38
8/27/2007 9:15	Blank	Priority Organic Pollutants	2,4-Dinitrophenol	14	U	ug/L	14	58
8/27/2007 9:15	Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	2-Chlorophenol	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9	U	ug/L	2.9	12
8/27/2007 9:15	Blank	Priority Organic Pollutants	2-Nitrophenol	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	38	U	ug/L	38	150
8/27/2007 9:15	Blank	Priority Organic Pollutants	4,4'-DDD	1.4	U	ug/L	1.4	5.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	4,4'-DDE	1.4	U	ug/L	1.4	5.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	4,4'-DDT	1.4	U	ug/L	1.4	5.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	1.9	U	ug/L	1.9	7.7
8/27/2007 9:15	Blank	Priority Organic Pollutants	4-Nitrophenol	14	U	ug/L	14	58

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Components	Result	Remarks	Units	MDL	PQL
8/27/2007 9:15	Blank	Priority Organic Pollutants	Acenaphthene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Acenaphthylene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Aldrin	1.4	U	ug/L	1.4	5.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Anthracene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Benzidine	96	U	ug/L	96	380
8/27/2007 9:15	Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.9	U	ug/L	2.9	12
8/27/2007 9:15	Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	14	U	ug/L	14	58
8/27/2007 9:15	Blank	Priority Organic Pollutants	Butyl benzyl phthalate	4.8	U	ug/L	4.8	19
8/27/2007 9:15	Blank	Priority Organic Pollutants	Chrysene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Di-n-butyl phthalate	4.8	U	ug/L	4.8	19
8/27/2007 9:15	Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Dieldrin	1.4	U	ug/L	1.4	5.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Diethyl phthalate	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Dimethyl phthalate	48	U	ug/L	48	190
8/27/2007 9:15	Blank	Priority Organic Pollutants	Endosulfan I	3.8	U	ug/L	3.8	15
8/27/2007 9:15	Blank	Priority Organic Pollutants	Endosulfan II	3.8	UJ	ug/L	3.8	15
8/27/2007 9:15	Blank	Priority Organic Pollutants	Endosulfan sulfate	1.4	U	ug/L	1.4	5.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Endrin	1.4	UJ	ug/L	1.4	5.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Endrin aldehyde	3.8	U	ug/L	3.8	15
8/27/2007 9:15	Blank	Priority Organic Pollutants	Fluoranthene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Fluorene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Heptachlor	1.4	U	ug/L	1.4	5.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Heptachlor epoxide	1.4	U	ug/L	1.4	5.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Hexachlorobenzene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Hexachlorobutadiene	2.9	U	ug/L	2.9	12
8/27/2007 9:15	Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.9	U	ug/L	2.9	12
8/27/2007 9:15	Blank	Priority Organic Pollutants	Hexachloroethane	2.9	U	ug/L	2.9	12

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Components	Result	Remarks	Units	MDL	PQL
8/27/2007 9:15	Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Isophorone	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	1.9	U	ug/L	1.9	7.7
8/27/2007 9:15	Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9	U	ug/L	1.9	7.7
8/27/2007 9:15	Blank	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.9	UJ	ug/L	2.9	12
8/27/2007 9:15	Blank	Priority Organic Pollutants	Naphthalene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Nitrobenzene	1.9	U	ug/L	1.9	7.7
8/27/2007 9:15	Blank	Priority Organic Pollutants	Pentachlorophenol	2.9	U	ug/L	2.9	12
8/27/2007 9:15	Blank	Priority Organic Pollutants	Phenanthrene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Phenol	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Pyrene	0.96	U	ug/L	0.96	3.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	alpha-BHC	1.4	U	ug/L	1.4	5.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	beta-BHC	1.4	U	ug/L	1.4	5.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	delta-BHC	1.4	U	ug/L	1.4	5.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	gamma-BHC	1.4	U	ug/L	1.4	5.8
8/27/2007 9:15	Blank	Priority Organic Pollutants	Bromodichloromethane	0.2	U	ug/L	0.2	1
8/27/2007 9:15	Blank	Priority Organic Pollutants	Bromoform	0.5	U	ug/L	0.5	2
8/27/2007 9:15	Blank	Priority Organic Pollutants	Chloroform	0.2	U	ug/L	0.2	1
8/27/2007 9:15	Blank	Priority Organic Pollutants	Dibromochloromethane	0.2	U	ug/L	0.2	1
8/27/2007 9:35	Trip Blank	Priority Organic Pollutants	Bromodichloromethane	0.2	U	ug/L	0.2	1
8/27/2007 9:35	Trip Blank	Priority Organic Pollutants	Bromoform	0.5	U	ug/L	0.5	2
8/27/2007 9:35	Trip Blank	Priority Organic Pollutants	Chloroform	0.2	U	ug/L	0.2	1
8/27/2007 9:35	Trip Blank	Priority Organic Pollutants	Dibromochloromethane	0.2	U	ug/L	0.2	1
8/27/2007 22:10	Effluent- Composite	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	5.1	Q	mg/L	0.2	2
8/27/2007 22:10	Effluent- Composite	Metals	Aluminum	21	I	ug/L	20	80
8/27/2007 22:10	Effluent- Composite	Metals	Calcium	65		mg/L	0.05	0.2
8/27/2007 22:10	Effluent- Composite	Metals	Iron	34	I	ug/L	10	40
8/27/2007 22:10	Effluent- Composite	Metals	Magnesium	11.2		mg/L	0.03	0.12
8/27/2007 22:10	Effluent- Composite	Metals	Arsenic	0.5	U	ug/L	0.5	2
8/27/2007 22:10	Effluent- Composite	Metals	Cadmium	0.02	U	ug/L	0.02	0.08
8/27/2007 22:10	Effluent- Composite	Metals	Chromium	1	U	ug/L	1	4
8/27/2007 22:10	Effluent- Composite	Metals	Copper	0.33	I	ug/L	0.25	1
8/27/2007 22:10	Effluent- Composite	Metals	Lead	0.2	U	ug/L	0.2	0.8
8/27/2007 22:10	Effluent- Composite	Metals	Nickel	1.89		ug/L	0.25	1
8/27/2007 22:10	Effluent- Composite	Metals	Selenium	0.5	U	ug/L	0.5	2

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Components	Result	Remarks	Units	MDL	PQL
8/27/2007 22:10	Effluent- Composite	Metals	Silver	0.025	U	ug/L	0.025	0.1
8/27/2007 22:10	Effluent- Composite	Metals	Thallium	0.1	U	ug/L	0.1	0.4
8/27/2007 22:10	Effluent- Composite	Metals	Zinc	12	I	ug/L	5	20
8/27/2007 22:10	Effluent- Composite	Nutrients	Organic Carbon	8.8		mg C/L	1	5
8/27/2007 22:10	Effluent- Composite	Nutrients	Ammonia-N	0.019	I	mg N/L	0.01	0.02
8/27/2007 22:10	Effluent- Composite	Nutrients	NO2NO3-N	0.038		mg N/L	0.004	0.01
8/27/2007 22:10	Effluent- Composite	Nutrients	Kjeldahl Nitrogen	1.1		mg N/L	0.08	0.2
8/27/2007 22:10	Effluent- Composite	Nutrients	Organic Carbon	8.7		mg C/L	1	5
8/27/2007 22:10	Effluent- Composite	Nutrients	Total-P	0.48		mg P/L	0.02	0.06
8/27/2007 22:10	Effluent- Composite	Nutrients	TSS	5	I	mg/L	4	16

The Bioassay of Plant City Water Reclamation Facility effluent sampled on August 27, 2007. NPDES #FL0026557.

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

Transaction Code		NPDES NUMBER										YR/MO/DA				Insp Type	Inspector	Fac Type									
1	N	2	5	3	F	L	0	0	2	6	5	5	7	11	12	0	7	0	8	2	7	18	B	19	S	20	1
Remarks																											
66																											

The Priority Pollutants Analysis of Plant City Water Reclamation Facility effluent sampled on August 27, 2007. NPDES #FL0026557.

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

Transaction Code		NPDES NUMBER										YR/MO/DA				Insp Type	Inspector	Fac Type									
1	N	2	5	3	F	L	0	0	2	6	5	5	7	11	12	0	7	0	8	2	7	18	X	19	S	20	1
Remarks																											
66																											

Biological Analyses of Plant City Water Reclamation Facility effluent sampled on August 27, 2007. NPDES #FL0026557.

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

Transaction Code		NPDES NUMBER										YR/MO/DA				Insp Type	Inspector	Fac Type									
1	N	2	5	3	F	L	0	0	2	6	5	5	7	11	12	0	7	0	8	2	7	18	S	19	S	20	1
Remarks																											
66																											