

Bioassays of

Ponte Vedra Wastewater Treatment Facility

St. Johns County

NPDES #FL0117951

Sampled October 17, 2005

February 2006

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

Ponte Vedra Wastewater Treatment Facility, 200 State Road A1A, Ponte Vedra Beach, St. Johns County, Florida, NPDES #FL0117951. Effluent samples for this facility were collected on October 17, 2005.

Introduction

The Ponte Vedra Wastewater Treatment Facility is an activated-sludge process wastewater treatment plant. The facility has a design flow of 0.500 million gallons per day (MGD) annual average daily flow (AADF). The AADF from September 2004 through August 2005 was 0.434 MGD. The treatment system consists of an influent bar screen, an aeration basin, a secondary clarifier, an ultraviolet disinfection system, two traveling bridge filters, two reject holding ponds, and an effluent reuse pump station. Residuals are hauled for land application at an approved land application site or transported to the JEA-Buckman Street Residuals Management Facility (RMF) for further treatment and final disposal.

Treated effluent can be discharged to Ponte Vedra Golf Course pond at Outfall D-002 which is located approximately at latitude 30º14'16" N, longitude 81º22'55" W. Water from the Golf Course Pond can overflow into the Class III freshwaters of the Ponte Vedra Lake System. The facility also has a 0.917 MGD AADF permitted capacity slow-rate public access system land application system (R-002). R-002 consists of 1) the Ponte Vedra Golf Course which has a capacity of 0.600 MGD and is located approximately at latitude 30º14'40" N, longitude 81º23'03" W, and 2) Landscape and Common Area which has a capacity of 0.317 MGD located approximately at latitude 30º14'40" N, longitude 81º23'03" W. The reuse area consists of a total of 80.94 hectares (200 acres).

The facility has no outstanding Administrative Orders or Consent Orders. The facility also has no mixing zones. During the past year the facility has had violations of permitted fecal coliforms at Outfall D-002 (May and June 2005) and at Outfall R-002 (February, May, and June 2005). The facility also exceeded permit limits for Total Suspended Solids at both outfalls in April 2005. (Facility information provided by David Lee of FDEP Northeast District)

Methods

Samples were collected from the EFA-1 NPDES sampling point for Outfall D-002 by Patrick O'Connor and Mike Bogin (FDEP Northeast 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.

The 48-hour acute screening toxicity tests and algal growth potential test were performed following internal DEP SOP's TA07_01, TA07_02, 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. 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 October 18-20, 2005.

Ceriodaphnia dubia 48-hour acute screening bioassay –	LC_{50} > 100%, 10% mortality* in 100% sample at 48 hours
Cyprinella leedsi 48-hour acute screening bioassay –	LC_{50} > 100%, 10% mortality* in 100% sample at 48 hours

The bioassay sample was not acutely toxic to either test species.

See Appendix 1 for bioassay bench sheets.

*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 96.2 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 79.12 (±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 sample collected and preserved for chemical analysis was 0.082 mg/L. Based on the pH, salinity, and temperature of the effluent as collected, the calculated unionized ammonia concentration was < 0.02 mg/L.

Aluminum was detected in the effluent. Iron, lead, nickel, and zinc were detected between the laboratory method detection limits (MDL) and practical quantitation limits (PQL). The effluent dissolved oxygen concentration (3.84 mg/L) did not meet the Freshwater Quality Standard of ≥ 5 mg/L (62-302.530(31), F.A.C.). The effluent conductivity (1,294 µmhos/cm) exceeded the Freshwater Quality Standard of 1,275 µmhos/cm (62-302.530(23), F.A.C.).

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

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

Conclusion

The effluent sample collected from Outfall D-001 for this facility on October 17, 2005, was not acutely toxic to either test species during the acute screen 48-hour bioassays. The effluent AGP result exceeded the "problem" threshold for fresh receiving waters, suggesting nutrient enrichment may be an issue. Effluent dissolved oxygen and conductivity failed to meet the Class III Freshwater Quality criteria. Effluent water quality samples did not 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 wt/L) of Pseudokirchneriella subcapitata *for total soluble nitrogen (TSIN) and total nitrogen (TN) limitation and ratios of nitrogen to phosphorus for samples collected from Ponte Vedra Wastewater Treatment Facility on October 17, 2005.*

Location	AGP (measured)	Predicted AGP (TSIN) ± 20%	Predicted AGP (TN) ± 20%	Inorganic N:P ratio	Total N:P ratio
Effluent Samples	96.2	79.12 ± 15.824	114 ± 22.8	0.67	0.97

Table 2. Effluent limits, Class III Freshwater Criteria, and chemical and microbiological data for samples collected from Ponte Vedra Wastewater Treatment Facility on October 17, 2005.

Ponte Vedra WWTF NPDES# FL0117951	Class III Freshwater Stds	Effluent Limits	Effluent Samples
Organic Constituents (µg/L)			
PAHs	≤ 0.031 a	-	0.95 U
Metals (µg/L unless otherwise noted)			
Aluminum	-	-	38
Arsenic	≤ 50	-	4 U
Cadmium	≤ 2.6 b	-	0.05 U
Calcium (mg/L)	-	-	66.4
Chromium-III	≤ 203.3 b	-	2 U
Copper	≤ 22.8 b	-	2.2 U
Iron	≤ 1,000	-	31 I
Lead	≤ 12.1 b	-	0.16 I
Magnesium (mg/L)	-	-	29
Nickel	≤ 126.6 b	-	2.2 I
Selenium	≤ 5	-	0.5 U
Silver	≤ 0.07	-	0.025 U
Zinc	≤ 291.2 b	-	32 I
Nutrients (mg/L)			
Ortho-phosphate	-	Report	3.1
Total Phosphorus	-	Report	3.1 A
Ammonia	-	Report	0.082 A
Unionized Ammonia	≤ 0.02	Report	< 0.02 c
Nitrate+Nitrite	-	Report	2 A
Total Kjeldahl Nitrogen	-	Report	1 A
Organic Nitrogen	-	Report	0.92 c
Total Nitrogen	-	≤ 10 s	3 c
General Physical and Chemical Parameters			
Dissolved Oxygen (mg/L)	≥ 5	Report	3.84
pH (S.U.)	6.0-8.5 s	6.0-8.5 s	6.9
Conductivity (umhos/cm)	≤ 1,275	-	1,290
Temperature (C)	-	-	28
CBOD (mg/L)	-	≤ 60 s	O
TSS (mg/L)	-	≤ 5 s	4 U
Turbidity (NTU)	≤ 29 t	Report	0.7 p
Flow (MGD)	-	-	0.434 a
Hardness (mg/L)	-	-	285.2 c
Microbiology (# counts/100ml)			
Fecal Coliforms-Membrane Filter	≤ 800 s	≤ 25 s	-

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

a - Annual average

b - Value is calculated based on hardness

c - Calculated value

p - permited sampling points for this limit are EFB-1 and EFB-2

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 li

O - Sampled, but analysis lost or not performed

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

FDEP Biology Section - Acute Screen Bioassay Bench Sheets

Facility: Ponte Vedra WWTF

Address: 200 State Road A1A

City: Ponte Vedra Beach County: St. Johns

Contact/District: Pat O'Connor / Northeast Dist.

NPDES Permit #: FL 0117951

LIMS Job #: TH-2005-10-18-51 LIMS Sample #: 872142

Sample Collection: Date: 10-17-05 Time: 1050

Hold Time Start: Date: 10-17-05 Time: 1050

Comments:

Lims Data Entry: MF 10-28-05 Data Entry Verification: 11-28-05 BP

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

Test Type: (Screen)

(Static) Static Renewal / Flow-through

Test Duration: (48) 96 Hours.

Light Intensity : 50 - 100 ft. candles.

Photoperiod : 16 hours light 8 hours dark.

Test 1 validation: Test 1: SOP TA 07-01

Control survival ≥90%: (Yes) No

Temperature Range ≤3°C: (Yes) No

Test 2 validation: Test 2: SOP TA 07-02

Control survival ≥90%: (Yes) No

Temperature Range ≤3°C: (Yes) No

Initial sample handling:

PH adjustment : yes (no) Initial pH: ____ NaOH N HCl N ____ Drops ml. Final pH: ____

Aeration : yes (no) Initial DO: ____mg/L Final DO: ____mg/L Duration: ____minutes Rate: ~ ____bubbles/min

Salinity adjusted (Test 1): yes (no) Initial Salinity: ____ Final Salinity: ____ Salts Hypersaline brine

Salinity adjusted (Test 2): yes (no) Initial Salinity: ____ Final Salinity: ____ Salts Hypersaline brine

Dechlorination: yes (no) ____mL of 0.025N Sodium Thiosulfate per liter of sample Final TRC: ____

Temperature Range °C

Incubator # 3 Range 24.5-25.7

Room B246: 24.9-24.6

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

Jason Davidson

James Dimich

Marshall Faircloth

Erin Kelley

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	-	BP	
Lab Total Residual Cl2 (mg/L):	<0.03	<0.03				<0.03	HACH	EW/JD	BP
Alkalinity (mg/L as $CaCO_3$):	71	141				220	HACH	EW/BP	MF
Hardness (mg/L as $CaCO_3$):	95	141				335	HACH	EW/BP	MF
Total Ammonia (mg/L as N):	<0.017	<0.017				<0.017	DENVER	MF	BP
Salinity (ppth):	<1	<1				<1	YSI / Mettler	BP/JD	MF

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Appendix 1. Bench Sheets (continued)

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FDEP Biology Section - - Bioassay Bench Sheet
Survival

LIMS Sample #: 872142 Test #: 1 Test Started: Date 10-18-05 Time: 1430
Organism: C.dubia Test Ended: Date 10-20-05 Time: 1330
Organism Batch: 39-05 Diluent/ Batch: DMW / 31-05
Organism Age: <24 hrs Food: YCT *P. subcapitata* *Artemia* SOP: TA(T)-01
Chamber Size: 30 mL Batch: 4-05 5-05 —
Test Volume: 20 mL Feeding: ~~Prior to test~~ (circled) Prior to renewal - Daily

Concentration	Replicate	Chamber #	0 hr	~~24 hr~~ 24 48hr SP	~~48 hr BR~~ SP 48hr	48 hr AR	72 hr	96 hr
CTRL	A	A	5	5	5			
	B	B	5	5	5			
	C	C	5	5	5			
	D	D	5	5	5			
100%	A	A	5	5	5			
	B	B	5	5	5			
	C	C	5	4,1D	4			
	D	D	5	4 1D	4			
Organisms loaded by: SP		Checked by:	[redacted]	SP	SP			

Loading Verified by: JD

Comments:

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

Test Results:

% mortality in 100% sample 10

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

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

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

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Appendix 1. Bench Sheets (continued)

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FDEP Biology Section - - Bioassay Bench Sheet
Survival

LIMS Sample #: 87242 Test #: 2 Test Started: Date 10-18-05 Time: 1420
Organism: C. leedsi Test Ended: Date 10-20-05 Time: 1320
Organism Batch: 30-05 Diluent/ Batch: Well water / 10-18-05
Organism Age: 5 days Food: YCT *P. subcapitata* *Artemia* SOP: TA07-02
Chamber Size: 1000 mL Batch: – – 35138425 GR
Test Volume: 500 mL Feeding: (Prior to test) - Prior to renewal - Daily

Concentration	Replicate	Chamber #	Test Hour 0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
CTRL	A	D1	5	5	5			
	B	D2	5	5	5			
	C	D3	5	5	5			
	D	D4	5	5	5			
100%	A	D5	5	5	4 1D			
	B	D6	5	5	5			
	C	D7	5	5	5			
	D	D8	5	4 1D	4			
Organisms loaded by: JD		Checked by:	[redacted]	SP	SP			

Loading Verified by: SC
m = missing d = dead BR = before renewal AR = after renewal

Comments:

Test Results:
% mortality in 100% sample 10
LC_{50}: > 100 If Calculated: 95% CI ________ Method: ________

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

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Bioassay Parameters

LIMS Sample # : 872142 Test # : 1 of 2

TEST SOP: TA07_01_ Test Species: (Ceriodaphnia dubia) Cyprinella leedsi Pimephales promelas

Americamysis bahia Menidia beryllina Other:_____

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Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A		B			
pH (S.U.)	8.1		8.1			
Temperature °C	25.1		24.0			
Dissolved Oxygen mg/L	7.4		7.7			
Conductivity (µmhos) mmhos	169.8		215			
(initials) Measured by:	JJ		SB			
(initials) Recorded by:	JJ		SB			

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A		B			
pH (S.U.)	7.4		8.5			
Temperature °C	25.4		24.0			
Dissolved Oxygen mg/L	48		7.7			
Conductivity (µmhos) mmhos	1300		1534			
(initials) Measured by:	JJ		SB			
(initials) Recorded by:	JJ		SB			

Comments:

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

Comments:

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

Comments:

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Bioassay Parameters

LIMS Sample # : 872142 **Test # :** 2 of 2

TEST SOP: TA07_ 02 **Test Species:** *Ceriodaphnia dubia* (*Cyprinella leedsi*) *Pimephales promelas* *Americamysis bahia* *Menidia beryllina* Other:_____

~~V.1 2/24/04~~

Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	7.6	8.1	~~8~~ 8.2			
Temperature °C	25.0	24.0	24.1			
Dissolved Oxygen mg/L	8.0	6.8	7.0			
Conductivity ~~µmhos~~ mmhos	259	260	305			
(initials) Measured by:	JD	[illegible]	[illegible]			
(initials) Recorded by:	JD	[illegible]	[illegible]			

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	7.3	7.9	~~7.7~~ 8.3			
Temperature °C	25.5	24.0	24.0			
Dissolved Oxygen mg/L	3.5	6.7	7.1			
Conductivity ~~µmhos~~ mmhos	1338	1321	1405			
(initials) Measured by:	JD	[illegible]	[illegible]			
(initials) Recorded by:	JD	[illegible]	[illegible]			

Comments: (A) transferred over SR

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

Comments:

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

Comments:

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Appendix 2. Chemical Analyses performed on the effluent from the Ponte Vedra Wastewater Treatment Facility Outfall D-002, sampled on October 17, 2005.

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/17/05 11:25	PONTE VERDA WWTP	Bio-AGP/LimNut	Algal Growth Potential	96.2	mg DryWt/L		0.3	0.9
10/17/05 11:25	PONTE VERDA WWTP	Bio-BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	No Result	mg/L	O	0.2	2
10/17/05 11:25	PONTE VERDA WWTP	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	1.1	ug/L	UQ	1.1	3.2
10/17/05 11:25	PONTE VERDA WWTP	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	1.1	ug/L	UQ	1.1	3.2
10/17/05 11:25	PONTE VERDA WWTP	Bio-Toxicology	Bioassay-Acute-Screen-FW-C.dubia, LC50	100	LC50	L		
10/17/05 11:25	PONTE VERDA WWTP	Bio-Toxicology	Bioassay-Acute-Screen-FW-Fish, LC50	100	LC50	L		
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	1,2,4-Trichlorobenzene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	1,2-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	1,3-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	1,4-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	2,4,6-Trichlorophenol	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	2,4-Dichlorophenol	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	2,4-Dinitrophenol	14	ug/L	UJ	14	57
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	2,4-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	2,6-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	2-Chloronaphthalene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	2-Chlorophenol	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	11
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	2-Nitrophenol	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	4-Bromophenyl phenyl ether	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	4-Chloro-3-methylphenol	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.6
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	4-Nitrophenol	14	ug/L	UJ	14	57
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Acenaphthene	0.95	ug/L	U	0.95	3.8

10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Acenaphthylene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Anthracene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Benzidine	95	ug/L	U	95	380
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Benzo(a)anthracene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Benzo(a)pyrene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Benzo(b)fluoranthene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Benzo(g,h,i)perylene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Benzo(k)fluoranthene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Bis(2-chloroethoxy)methane	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Bis(2-chloroethyl)ether	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	11
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Chrysene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Dibenzo(a,h)anthracene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Diethyl phthalate	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Di-n-octyl phthalate	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.7
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Fluoranthene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Fluorene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Heptachlor	1.4	ug/L	UJ	1.4	5.7
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Hexachlorobenzene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	11
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	UJ	2.9	11

10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	11
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Indeno(1,2,3-cd)pyrene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Isophorone	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Naphthalene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.6
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.6
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.6
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	11
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	11
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Phenanthrene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Phenol	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	BNA-Water	Pyrene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	1,2,4-Trichlorobenzene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	1,2-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	1,3-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	1,4-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	2,4,6-Trichlorophenol	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	2,4-Dichlorophenol	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	2,4-Dinitrophenol	14	ug/L	UJ	14	57
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	2,4-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	2,6-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	2-Chloronaphthalene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	2-Chlorophenol	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	11
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	2-Nitrophenol	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	4-Bromophenyl phenyl ether	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	4-Chloro-3-methylphenol	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.6
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	4-Nitrophenol	14	ug/L	UJ	14	57
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Acenaphthene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Acenaphthylene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7

10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Anthracene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Benzidine	95	ug/L	U	95	380
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Benzo(a)anthracene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Benzo(a)pyrene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Benzo(b)fluoranthene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Benzo(g,h,i)perylene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Benzo(k)fluoranthene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Bis(2-chloroethoxy)methane	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Bis(2-chloroethyl)ether	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	11
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Chrysene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Dibenzo(a,h)anthracene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Diethyl phthalate	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Di-n-octyl phthalate	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.7
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Fluoranthene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Fluorene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Heptachlor	1.4	ug/L	UJ	1.4	5.7
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Hexachlorobenzene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	11
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	UJ	2.9	11
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	11
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Indeno(1,2,3-cd)pyrene	0.95	ug/L	U	0.95	3.8

10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Isophorone	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Naphthalene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.6
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.6
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.6
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	11
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	11
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Phenanthrene	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Phenol	0.95	ug/L	U	0.95	3.8
10/17/05 11:25	PONTE VERDA WWTP	BNA-Water	Pyrene	0.95	ug/L	U	0.95	3.8
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Alachlor	0.57	ug/L	UJ	0.57	2.3
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.19
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Atrazine	0.048	ug/L	U	0.048	0.19
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Azinphos Methyl	0.19	ug/L	U	0.19	0.76
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.19
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Chlorpyrifos Methyl	0.095	ug/L	U	0.095	0.38
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Diazinon	0.048	ug/L	U	0.048	0.19
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Ethion	0.048	ug/L	U	0.048	0.19
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Ethoprop	0.095	ug/L	U	0.095	0.38
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Fonofos	0.095	ug/L	U	0.095	0.38
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Hexazinone	0.095	ug/L	U	0.095	0.38
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Malathion	0.14	ug/L	UJ	0.14	0.56
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Metolachlor	0.48	ug/L	U	0.48	1.9
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Metribuzin	0.095	ug/L	U	0.095	0.38
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Naled	0.76	ug/L	UJ	0.76	3
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Norflurazon	0.14	ug/L	U	0.14	0.56
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Parathion Methyl	0.095	ug/L	U	0.095	0.38
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Phorate	0.048	ug/L	U	0.048	0.19
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
10/17/05 10:25	EQUIPMENT BLANK	GC-Water	Simazine	0.048	ug/L	U	0.048	0.19
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Alachlor	0.6	ug/L	UJ	0.6	2.4

10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Ametryn	0.05	ug/L	U	0.05	0.2
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Atrazine	0.05	ug/L	U	0.05	0.2
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Azinphos Methyl	0.2	ug/L	U	0.2	0.8
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Butylate	0.2	ug/L	U	0.2	0.8
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Chlorpyrifos Ethyl	0.05	ug/L	U	0.05	0.2
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Chlorpyrifos Methyl	0.1	ug/L	U	0.1	0.4
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Diazinon	0.05	ug/L	U	0.05	0.2
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Ethion	0.05	ug/L	U	0.05	0.2
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Ethoprop	0.1	ug/L	U	0.1	0.4
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Fonofos	0.1	ug/L	U	0.1	0.4
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Hexazinone	0.1	ug/L	U	0.1	0.4
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Malathion	0.15	ug/L	UJ	0.15	0.6
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Metalaxyl	0.25	ug/L	U	0.25	1
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Metolachlor	0.5	ug/L	U	0.5	2
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Metribuzin	0.1	ug/L	U	0.1	0.4
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Mevinphos	0.2	ug/L	U	0.2	0.8
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Naled	0.8	ug/L	UJ	0.8	3.2
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Norflurazon	0.15	ug/L	U	0.15	0.6
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Parathion Methyl	0.1	ug/L	U	0.1	0.4
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Phorate	0.05	ug/L	U	0.05	0.2
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
10/17/05 11:25	PONTE VERDA WWTP	GC-Water	Simazine	0.05	ug/L	U	0.05	0.2
10/17/05 10:25	EQUIPMENT BLANK	Metals-Water	Aluminum	5	ug/L	U	5	20
10/17/05 10:25	EQUIPMENT BLANK	Metals-Water	Arsenic	4	ug/L	U	4	16
10/17/05 10:25	EQUIPMENT BLANK	Metals-Water	Cadmium	0.05	ug/L	U	0.05	0.2
10/17/05 10:25	EQUIPMENT BLANK	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
10/17/05 10:25	EQUIPMENT BLANK	Metals-Water	Chromium	2	ug/L	U	2	8
10/17/05 10:25	EQUIPMENT BLANK	Metals-Water	Copper	0.5	ug/L	U	0.5	2
10/17/05 10:25	EQUIPMENT BLANK	Metals-Water	Iron	10	ug/L	U	10	40
10/17/05 10:25	EQUIPMENT BLANK	Metals-Water	Lead	0.075	ug/L	U	0.075	0.3
10/17/05 10:25	EQUIPMENT BLANK	Metals-Water	Magnesium	0.01	mg/L	U	0.01	0.04
10/17/05 10:25	EQUIPMENT BLANK	Metals-Water	Nickel	2	ug/L	U	2	8
10/17/05 10:25	EQUIPMENT BLANK	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
10/17/05 10:25	EQUIPMENT BLANK	Metals-Water	Silver	0.025	ug/L	U	0.025	0.1

10/17/05 10:25	EQUIPMENT BLANK	Metals-Water	Zinc	3	ug/L	U	3	12
10/17/05 11:25	PONTE VERDA WWTP	Metals-Water	Aluminum	38	ug/L		5	20
10/17/05 11:25	PONTE VERDA WWTP	Metals-Water	Arsenic	4	ug/L	U	4	16
10/17/05 11:25	PONTE VERDA WWTP	Metals-Water	Cadmium	0.05	ug/L	U	0.05	0.2
10/17/05 11:25	PONTE VERDA WWTP	Metals-Water	Calcium	66.4	mg/L		0.05	0.2
10/17/05 11:25	PONTE VERDA WWTP	Metals-Water	Chromium	2	ug/L	U	2	8
10/17/05 11:25	PONTE VERDA WWTP	Metals-Water	Copper	2.2	ug/L	U	2.2	8.8
10/17/05 11:25	PONTE VERDA WWTP	Metals-Water	Iron	31	ug/L	I	10	40
10/17/05 11:25	PONTE VERDA WWTP	Metals-Water	Lead	0.16	ug/L	I	0.075	0.3
10/17/05 11:25	PONTE VERDA WWTP	Metals-Water	Magnesium	29	mg/L		0.01	0.04
10/17/05 11:25	PONTE VERDA WWTP	Metals-Water	Nickel	2.2	ug/L	I	2	8
10/17/05 11:25	PONTE VERDA WWTP	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
10/17/05 11:25	PONTE VERDA WWTP	Metals-Water	Silver	0.025	ug/L	U	0.025	0.1
10/17/05 11:25	PONTE VERDA WWTP	Metals-Water	Zinc	32	ug/L	I	8.6	34
10/17/05 10:25	EQUIPMENT BLANK	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
10/17/05 10:25	EQUIPMENT BLANK	Nutrients-Liquid	Kjeldahl Nitrogen	0.06	mg N/L	U	0.06	0.2
10/17/05 10:25	EQUIPMENT BLANK	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
10/17/05 10:25	EQUIPMENT BLANK	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
10/17/05 10:25	EQUIPMENT BLANK	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06
10/17/05 11:25	PONTE VERDA WWTP	Nutrients-Liquid	Ammonia-N	0.082	mg N/L	A	0.01	0.02
10/17/05 11:25	PONTE VERDA WWTP	Nutrients-Liquid	Kjeldahl Nitrogen	1	mg N/L	A	0.16	0.4
10/17/05 11:25	PONTE VERDA WWTP	Nutrients-Liquid	NO2NO3-N	2	mg N/L	A	0.04	0.1
10/17/05 11:25	PONTE VERDA WWTP	Nutrients-Liquid	O-Phosphate-P	3.1	mg P/L		0.08	0.2
10/17/05 11:25	PONTE VERDA WWTP	Nutrients-Liquid	Total-P	3.1	mg P/L	A	0.1	0.3
10/17/05 11:25	PONTE VERDA WWTP	Nutrients-Liquid	TSS	4	mg/L	U	4	16
10/17/05 11:25	PONTE VERDA WWTP	Nutrients-Liquid	Turbidity	0.7	NTU		0.05	0.05

The Bioassay of Ponte Vedra Wastewater Treatment Facility effluent sampled on October 17, 2005. NPDES #FL0117951.

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 FL0117951 11	12 051017	18 B	19 S	20 1

Remarks

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The Priority Pollutants Analysis of Ponte Vedra Wastewater Treatment Facility effluent sampled on October 17, 2005. NPDES #FL0117951.

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
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Remarks

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Biological Analyses of Ponte Vedra Wastewater Treatment Facility effluent sampled on October 17, 2005. NPDES #FL0117951.

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 FL0117951 11	12 051017	18 S	19 S	20 1

Remarks

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