

Bioassays of

Fairwinds Condominium Reverse Osmosis

Sarasota County

NPDES #FL0165697

Sampled February 23, 2004

September 2004

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

Fairwinds Condominium Reverse Osmosis, 350 Fairwinds Drive, Nokomis, Sarasota County, Florida, NPDES #FL0165697. Effluent samples for this facility were collected on February 23, 2004.

Introduction

The Fairwinds Condominium Reverse Osmosis Industrial Wastewater Treatment Facility has a design flow of 0.024 million gallons per day (MGD) and an average monthly flow of 0.007 MGD (flow data from September 2002 – September 2003). Demineralization concentrate is not treated prior to discharge through an existing 2-inch perforated outfall pipe that lies along the bottom of a man-made canal connected to Lyons Bay, a Class III marine water body. The outfall sampling point is a faucet on the pipe, located at the seawall before the pipe goes into the canal (facility information provided by Lori Pillsbury and Joe Hillring, FDEP, Southwest District, Tampa).

The facility has an acute toxicity mixing zone with an area of 2,544 square feet (106' x 24') and a chronic toxicity and radioactive substances (Radium 226 and 228, Gross Alpha Particle Activity) mixing zone of 15,070 square feet (110' x 137').

Methods

Samples were collected from the NPDES outfall sampling point by Lori Pillsbury (FDEP Southwest District, Tampa) 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 acute screen toxicity test and algal growth potential tests discussed in this report were performed following internal DEP SOP's TA07_03,TA07_04, and TA08_01 through TA08_06. All internal DEP SOP's are available on the web at: http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp. While this test does not reflect the permit-required conditions, the Department uses the 48-hour acute screen test to provide reasonable assurance that the facility does not adversely affect waters of the state.

Toxicity Test Results

Tests were performed February 23, 2004.

Americamysis bahia 48-hr acute screening bioassay – LC_{50} < 100%, 100%* mortality in 100% sample at 48 hours

Menidia beryllina 48-hr acute screening bioassay – LC_{50} > 100%, 0%* mortality in 100% sample at 48 hours

*NOTE: In a 48-hr acute screen 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.).

The chemistry results confirmed that the ion makeup of the sample was not in seawater proportions and that the apparent 2.6 ppth (part per thousand) salinity of the sample was due to elevated levels of groundwater ions. The observed mortality in the *A. bahia* test is due, at least in part, to the seawater-ion imbalance of the sample. Previous research conducted by the FDEP Biology Section demonstrated that *A. bahia* is much more sensitive to seawater-ion imbalances

than is *M. beryllina* (Wolfe, *et al*. 1995). Effluent calcium concentration was 702 mg/L at 2.6 ppth salinity (salinity based on conductivity and temperature), which is approximately twenty-two times (22X) the normal concentration for calcium in seawater of this salinity. Effluent magnesium concentration was measured at 252 mg/L at 2.6 ppth salinity, which is approximately two and a half times (2.6X) the normal concentration for magnesium in seawater of this salinity. The elevated calcium and magnesium concentrations are two sources of toxicity in this sample, but other unidentified sources of toxicity cannot be ruled out without performing the major seawater-ion imbalance toxicity testing protocols cited above.

See Appendix 1 for bioassay bench sheets.

Algal Growth Potential

The effluent Algal Growth Potential (AGP) was 29 mg dry wt/L of *Dunaliella tertiolecta.* Raschke and Shultz found that AGP values above 10.0 mg dry wt/L represent a “problem” threshold for marine receiving waters, implying nutrient enrichment (personal communication with Ron Raschke USEPA Region 4 1987).

See Table 1 for AGP results.

Chemistry Results

Total residual chlorine was not detected in the bioassay sample in the laboratory. Total ammonia was detected in the bioassay sample in the laboratory at 0.762 mg/L, while the ammonia concentration of the acidified sample measured in the FDEP Chemistry Laboratory was 0.8 mg/L. Due to absence of field pH and temperature data, the unionized ammonia concentration of the effluent at the time of sample collection could not be calculated. Based on laboratory measurements, the calculated unionized ammonia concentration in the bioassay sample was 0.021 mg/L.

The effluent concentration of iron, 69 µg/L, complied with the Class III Marine Water Quality Criterion of <300 µg/L (Table 2; 62-302.530(39), F.A.C.).

Lead and zinc were detected in the effluent at concentrations above the minimum detection limit but below the practical quantitation limit.

See Table 2 for results of analytes detected in the effluent.

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

Conclusion

The effluent samples collected from this facility on February 23, 2004 did not show acute toxicity to the *M. beryllina* test organisms, but did show unacceptable acute toxicity to the *A. bahia* test organisms during the 48-hour bioassay tests. Elevated calcium and magnesium concentrations are two sources of toxicity, but other unidentified sources of toxicity cannot be ruled out without performing the major seawater-ion imbalance toxicity testing protocols. The effluent AGP exceeded the "problem” threshold for marine receiving waters. Effluent metals complied with Class III Marine Water Quality Criteria.

Literature Cited

Raschke, R. L. and D. A. Schultz. 1987. The use of the algal growth potential test for data assessment. J. Wat. Poll. Cont. Fed. 59(4): 222-227.

Wolfe, *et al*. 1995. Protocols for determining Major-Seawater-Ion Toxicity in Membrane-Technology Water-Treatment Concentrate. Florida Department of Environmental Protection, Bureau of Laboratories. 96pp.

Table 1. Measured algal growth potential (AGP) and ratios of inorganic nitrogen to ortho-phosphate and total nitrogen to phosphorus for the Fairwinds Condominiums Reverse Osmosis sampled on February 23, 2004.

Location	AGP (measured)	Inorganic N:P ratio	Total N:P ratio
Effluent Samples	29.0	33.58	1.54

Table 2. *Effluent limits, Class III Criteria and chemical data from effluent samples collected at the* Fairwinds Condominium Reverse Osmosis Plant *on February 23, 2004*

Fairwinds Condominium Reverse Osmosis	Class III Marine Stds	Effluent Limits	Effluent Samples
Organic Constituents (µg/L)			
None Detected	-	-	-
Metals (µg/L unless otherwise noted)			
Aluminum	-	-	7 U
Arsenic	≤ 50	-	9 U
Cadmium	≤ 9.3	-	0.025 U
Calcium (mg/L)	-	-	703
Chromium-III	-	-	17 U
Copper	≤ 3.7	-	8 U
Iron	≤ 300	-	69
Lead	≤ 8.5	-	0.2 I
Magnesium (mg/L)	-	-	252
Nickel	≤ 8.3	-	20 U
Selenium	≤ 71	-	1 U
Silver	≤ 2.3	-	0.02 U
Zinc	≤ 86	-	5.3 I
Nutrients (mg/L)			
Ortho-phosphate	-	-	0.024
Total Phosphorus	-	-	1.5
Ammonia	-	-	0.8
Unionized Ammonia	≤ 0.02	-	< 0.02 c
Nitrate+Nitrite	-	-	0.006 I
Total Kjeldahl Nitrogen	-	-	2.3
Organic Nitrogen	-	-	1.5 c
Total Nitrogen	-	-	2.31 c
General Physical and Chemical Parameters			
Sulfide (mg/L)	-	-	0.82 Q
TSS (mg/L)	-	-	4 I
Hardness (mg/L)	-	-	2793.1 c
AGP (mg DryWt/L)	-	-	29
Dissolved oxygen (mg/L)	-	≥ 5.0	7.2 lm
pH (SU)	-	6.5 - 8.5	7.8 lm
Conductivity (mmhos/cm)	-	-	14.8 lm
Temperature ©	-	-	25.3 lm
Chlorine (100% sample) Lab	≤ 0.01	-	<0.03 U

b - Value is calculated based on hardness

c - calculated value

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

Q - Sample held beyond normal holding time

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

lm - lab measurement; field parameters not taken

FDEP Biology Section - Acute Bioassay Bench Sheets

Facility: Fairwinds Condo RO Water Treatment Plant

Sample Collection: Date: 2/23/04 Time: 1015

Address: 350 Fairwinds Drive

City: Nokomis County: Sarasota

Contact/District: L Pilsbury /SW

NPDES Permit #: FL 0165697

LIMS Job #: TLH-2004-02-24-22-01 LIMS Sample #: 737128

Lims Data Entry: 2/27/04 MF

Data Entry Verification: 2/27/04 CAP

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

Test Type: Screening / Definitive

Static / Static Renewal / Flow-through

Test Duration: 48 96 Hours.

Light Intensity : 50 - 100 ft. candles.

Photoperiod : 16 hours light 8 hours dark.

Test validation: Control survival ≥90%: Yes No

Test validation: Temperature Range ≤3°C: Yes No

Comments: (A) Control water for mysid test was ASW @ ~ 8.6ppt Salinity, Salt control was ASW @ ~ 2.6ppt salted to ~ 8.6 ppT. Control water for monidia test was ASW @ ~ 3.6 ppt. Salt control was ASW @ ~ 2.6ppt salted to ~ 3.6ppT.
(B) actual reading in parenthesis
(C) <0.03

Initial sample handling:

PH adjustment : yes no NaOH N HCl N Drops mL

Aeration : yes no Initial DO: 4.9 mg/L Final DO: 7.2 mg/L Duration: 15 minutes Rate: ~100 bubbles/min

Salinity adjusted (Test 1): yes no Initial Salinity: ~2.6 Final Salinity: ~8.6 Salts Hypersaline brine

Salinity adjusted (Test 2): yes no Initial Salinity: ~2.6 Final Salinity: ~3.6 Salts Hypersaline brine

Renewal : yes no Test Time Hours:

Temperature Range °C

Incubator # 3 Range 22.5 - 24.0

Room B246: 23.5 - 24.5

Waterbath: N/A

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Investigators' Signatures

Christa A. Lesinni

James Daniels

Marshall Faircloth

Sarah Pritchard

Julie Espy

REVIEWER

Temperature Range °C

Water Quality Parameters	20% DMW	Well Water	ASW Salt Water	Moderately Hard Water	Original Sample	Method	Measured by	Verified by	Verified by
Field Total Residual Cl2 (mg/L):	N/A	N/A	N/A	N/A	Not measured	—			
Lab Total Residual CL2 (mg/L): (B)			<0.03 (0.01)		0.00 (C)	HACH	SP	CAP	
Alkalinity (mg/L as $CaCO_3$):			219		149	HACH	JA	CAP	
Hardness (mg/L as $CaCO_3$):			—		—	HACH	JA	CAP	
Total Ammonia (mg/L as N):			<0.017		0.762	DENVER	MF	CAP	
Salinity:			(A)		~2.6	YSI	MF	CAP	

[redacted]

Appendix 1.
Bioassay Bench Sheets

Bioassay Parameters

LIMS Sample # : 73128 **Test # :** 1 **of** 2

TEST SOP: TA-07- 03 **Test Species:** *Ceriodaphnia dubia Cyprinella leedsi Pimephales promelas* (*Americamysis bahia*) *Menidia beryllina* Other:

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Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	8.1	8.2	8.2			
Temperature °C	24.2	24.0	26.0			
Dissolved Oxygen mg/L	7.2	6.4	6.3			
Conductivity µmhos (mmhos)	14.0	14.0	15.3			
(initials) Measured by:	JA	JA	JA			
(initials) Recorded by:	CAP	JD	CAP			

Comments:

Concentration SHT CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	8.2	8.3	8.4			
Temperature °C	24.6	24.1	26.0			
Dissolved Oxygen mg/L	7.2	6.5	6.2			
Conductivity µmhos (mmhos)	14.5	14.7	15.6			
(initials) Measured by:	JA	JA	JA			
(initials) Recorded by:	CAP	JD	CAP			

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.)	7.8	8.1	8.2			
Temperature °C	25.3	24.0	25.9			
Dissolved Oxygen mg/L	7.2	6.6	6.2			
Conductivity µmhos (mmhos)	14.8	14.5	15.8			
(initials) Measured by:	JA	JA	JA			
(initials) Recorded by:	CAP	JD	CAP			

Comments:

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

Comments:

Bioassay Parameters

LIMS Sample # : 73128 **Test # :** 2 **of** 2

TEST SOP: TA-07- 04 **Test Species:** *Ceriodaphnia dubia* *Cyprinella leedsi* *Pimephales promelas* *Americamysis bahia* *Menidia beryllina* Other:

V.1 2/24/04

Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	8.1	8.3	8.3			
Temperature °C	24.2	26.0	24.5			
Dissolved Oxygen mg/L	7.2	6.7	7.0			
Conductivity µmhos (mmhos)	6.89	7.12	5.34			
(initials) Measured by:	JA	JA	JA			
(initials) Recorded by:	CAP	JO	CAP			

Comments:

Concentration SALT CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	8.1	8.3	8.4			
Temperature °C	24.4	25.1	24.0			
Dissolved Oxygen mg/L	7.2	6.7	7.1			
Conductivity µmhos (mmhos)	6.95	7.11	7.12			
(initials) Measured by:	JA	JA	JA			
(initials) Recorded by:	CAP	JO	CAP			

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.)	7.6	8.0	8.1			
Temperature °C	25.1	24.6	24.1			
Dissolved Oxygen mg/L	7.1	6.8	7.1			
Conductivity µmhos (mmhos)	6.81	6.98	6.82			
(initials) Measured by:	JA	JA	JA			
(initials) Recorded by:	CAP	JO	CAP			

Comments:

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

Comments:

Bioassay Parameters

LIMS Sample # : _____ **Test # :** _____ **of** ____

TEST SOP: TA-07-_____ Test Species: *Ceriodaphnia dubia Cyprinella leedsi Pimephales promelas Americamysis bahia Menidia beryllina* Other:_____

no entries this page

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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:

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

Comments:

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

Comments:

FDEP Biology Section - - Bioassay Bench Sheet

Survival

LIMS Sample #: ~~737168~~ 737128 CAP Test #: 1 Test Started: Date 2/24/04 Time: 1430

Organism: a. bahia Test Ended: Date 2/26/04 Time: 1330

Organism Batch: #50 Diluent/ Batch: ASW, #1

Organism Age: 5 days Food /Batch: Artemia / 0194035G

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

Concentration	Replicate	Chamber #	0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
CTRL	A	F17	5	5	5			
	B	F18	5	5	5			
	C	F19	5	5	5			
	D	F20	5	5	5			
SALT CTRL	A	F21	5	5	5			
	B	F22	5	5	5			
	C	F23	5	5	5			
	D	F24	5	5	5			
100%	A	B5	5	3 2D	0 3D			
	B	B6	5	4 1D	0 4D			
	C	B7	5	2 3D	0 2D			
	D	B8	5	2 3D	0 2D			
Organisms loaded by: JD		Checked by: (initials)	CAP	CAP	JA			

Loading Verified by: JA

Comments:

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

Test Results:

% mortality in 100% sample 100%

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).

LC_{50} qualifiers: K = Actual value is know to be less than value given.
L = Actual value is know to be greater than value given.

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FDEP Biology Section - - Bioassay Bench Sheet

Survival

LIMS Sample #: 437164 (737128 CAP) Test #: 2 Test Started: Date 2/24/04 Time: 1445

Organism: M. beryllina Test Ended: Date 2/26/04 Time: 1330

Organism Batch: #7 Diluent/ Batch: ASW / #1

Organism Age: 13 days Food /Batch: Artemia / 0194025G

Feeding: Prior to test (circled) - 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	C17	5	5	5			
	B	C18	5	5	5			
	C	C19	5	5	5			
	D	C20	5	5	5			
SALT CTRL	A	C21	5	5	5			
	B	C22	5	5	5			
	C	C23	5	5	5			
	D	C24	5	5	5			
100%	A	B1	5	5	5			
	B	B2	5	5	5			
	C	B3	5	5	5			
	D	B4	5	5	5			
Organisms loaded by: JD Loading Verified by: JA		Checked by: (initials)	CAP	JA	JA			

Comments:

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

Test Results:

% mortality in 100% sample 0%

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

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

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

LC_{50} qualifiers: K = Actual value is know to be less than value given.

L = Actual value is know to be greater than value given.

V.1 2/23/04

Appendix 2. Chemical Analyses performed on the effluent from the Fairwinds Condominiums Reverse Osmosis Wastewater Treatment Facility sampled on February 23, 2004.

DATE SAMPLED	FIELD ID	ANALYSIS GROUP	COMPONENT	RESULT	UNITS	REMARK	MDL	PQL
2/23/2004 10:15	29842	Bio-AGP/LimNut	Algal Growth Potential	29	mg DryWt/L		0.1	0.3
2/23/2004 10:15	29842	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
2/23/2004 10:15	29842	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
2/23/2004 10:15	29842	Bio-Toxicology	Bioassay-Acute-Screen-SW-Fish, LC50	100	LC50	L		
2/23/2004 10:15	29842	Bio-Toxicology	Bioassay-Acute-Screen-SW-Mysid, LC50	100	LC50	K		
2/23/2004 10:15	29842	BNA-Water	1,2,4-Trichlorobenzene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	1,2-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	1,3-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	1,4-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	2,4,6-Trichlorophenol	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	2,4-Dichlorophenol	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	2,4-Dimethylphenol	49	ug/L	U	49	200
2/23/2004 10:15	29842	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	59
2/23/2004 10:15	29842	BNA-Water	2,4-Dinitrotoluene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	2,6-Dinitrotoluene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	2-Chloronaphthalene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	2-Chlorophenol	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
2/23/2004 10:15	29842	BNA-Water	2-Nitrophenol	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	U	39	160
2/23/2004 10:15	29842	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.9
2/23/2004 10:15	29842	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.9
2/23/2004 10:15	29842	BNA-Water	4,4'-DDT	1.5	ug/L	UJ	1.5	5.9
2/23/2004 10:15	29842	BNA-Water	4-Bromophenyl phenyl ether	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	4-Chloro-3-methylphenol	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	4-Chlorophenyl phenyl ether	2	ug/L	U	2	7.8
2/23/2004 10:15	29842	BNA-Water	4-Nitrophenol	15	ug/L	U	15	59
2/23/2004 10:15	29842	BNA-Water	Acenaphthene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Acenaphthylene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.9
2/23/2004 10:15	29842	BNA-Water	Anthracene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Benzidine	98	ug/L	U	98	390
2/23/2004 10:15	29842	BNA-Water	Benzo(a)anthracene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Benzo(a)pyrene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Benzo(b)fluoranthene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Benzo(g,h,i)perylene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Benzo(k)fluoranthene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Bis(2-chloroethoxy)methane	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Bis(2-chloroethyl)ether	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
2/23/2004 10:15	29842	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	59
2/23/2004 10:15	29842	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	20
2/23/2004 10:15	29842	BNA-Water	Chrysene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	20
2/23/2004 10:15	29842	BNA-Water	Di-n-octyl phthalate	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Dibenzo(a,h)anthracene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	5.9
2/23/2004 10:15	29842	BNA-Water	Diethyl phthalate	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	200
2/23/2004 10:15	29842	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
2/23/2004 10:15	29842	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
2/23/2004 10:15	29842	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.9
2/23/2004 10:15	29842	BNA-Water	Endrin	1.5	ug/L	UJ	1.5	5.9
2/23/2004 10:15	29842	BNA-Water	Endrin aldehyde	3.9	ug/L	U	3.9	16
2/23/2004 10:15	29842	BNA-Water	Fluoranthene	0.98	ug/L	U	0.98	3.9

DATE SAMPLED	FIELD ID	ANALYSIS GROUP	COMPONENT	RESULT	UNITS	REMARK	MDL	PQL
2/23/2004 10:15	29842	BNA-Water	Fluorene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.9
2/23/2004 10:15	29842	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.9
2/23/2004 10:15	29842	BNA-Water	Hexachlorobenzene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
2/23/2004 10:15	29842	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
2/23/2004 10:15	29842	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
2/23/2004 10:15	29842	BNA-Water	Indeno(1,2,3-cd)pyrene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Isophorone	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	N-Nitrosodi-n-propylamine	2	ug/L	U	2	7.8
2/23/2004 10:15	29842	BNA-Water	N-Nitrosodimethylamine	2	ug/L	U	2	7.8
2/23/2004 10:15	29842	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
2/23/2004 10:15	29842	BNA-Water	Naphthalene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Nitrobenzene	2	ug/L	U	2	7.8
2/23/2004 10:15	29842	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
2/23/2004 10:15	29842	BNA-Water	Phenanthrene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Phenol	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	Pyrene	0.98	ug/L	U	0.98	3.9
2/23/2004 10:15	29842	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.9
2/23/2004 10:15	29842	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.9
2/23/2004 10:15	29842	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.9
2/23/2004 10:15	29842	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.9
2/23/2004 10:15	29842	GC-Water	Alachlor	0.59	ug/L	U	0.59	2.36
2/23/2004 10:15	29842	GC-Water	Ametryn	0.049	ug/L	U	0.049	0.196
2/23/2004 10:15	29842	GC-Water	Atrazine	0.049	ug/L	U	0.049	0.196
2/23/2004 10:15	29842	GC-Water	Azinphos Methyl	0.049	ug/L	UJ	0.049	0.196
2/23/2004 10:15	29842	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
2/23/2004 10:15	29842	GC-Water	Butylate	0.2	ug/L	U	0.2	0.8
2/23/2004 10:15	29842	GC-Water	Chlorpyrifos Ethyl	0.049	ug/L	U	0.049	0.196
2/23/2004 10:15	29842	GC-Water	Chlorpyrifos Methyl	0.098	ug/L	U	0.098	0.392
2/23/2004 10:15	29842	GC-Water	Diazinon	0.049	ug/L	U	0.049	0.196
2/23/2004 10:15	29842	GC-Water	Ethion	0.049	ug/L	U	0.049	0.196
2/23/2004 10:15	29842	GC-Water	Ethoprop	0.098	ug/L	UJ	0.098	0.392
2/23/2004 10:15	29842	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
2/23/2004 10:15	29842	GC-Water	Fonofos	0.098	ug/L	U	0.098	0.392
2/23/2004 10:15	29842	GC-Water	Hexazinone	0.098	ug/L	U	0.098	0.392
2/23/2004 10:15	29842	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
2/23/2004 10:15	29842	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
2/23/2004 10:15	29842	GC-Water	Metolachlor	0.49	ug/L	U	0.49	1.96
2/23/2004 10:15	29842	GC-Water	Metribuzin	0.098	ug/L	U	0.098	0.392
2/23/2004 10:15	29842	GC-Water	Mevinphos	0.2	ug/L	UJ	0.2	0.8
2/23/2004 10:15	29842	GC-Water	Naled	0.78	ug/L	UJ	0.78	3.12
2/23/2004 10:15	29842	GC-Water	Norflurazon	0.098	ug/L	UJ	0.098	0.392
2/23/2004 10:15	29842	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
2/23/2004 10:15	29842	GC-Water	Parathion Methyl	0.098	ug/L	U	0.098	0.392
2/23/2004 10:15	29842	GC-Water	Phorate	0.049	ug/L	UJ	0.049	0.196
2/23/2004 10:15	29842	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
2/23/2004 10:15	29842	GC-Water	Simazine	0.049	ug/L	U	0.049	0.196
2/23/2004 10:15	29842	Metals-Water	Aluminum	7	ug/L	U	7	28
2/23/2004 10:15	29842	Metals-Water	Arsenic	9	ug/L	U	9	36
2/23/2004 10:15	29842	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
2/23/2004 10:15	29842	Metals-Water	Calcium	703	mg/L		0.05	0.2
2/23/2004 10:15	29842	Metals-Water	Chromium	17	ug/L	U	17	68
2/23/2004 10:15	29842	Metals-Water	Copper	8	ug/L	U	8	32
2/23/2004 10:15	29842	Metals-Water	Iron	69	ug/L		10	40
2/23/2004 10:15	29842	Metals-Water	Lead	0.2	ug/L	I	0.05	0.2
2/23/2004 10:15	29842	Metals-Water	Magnesium	252	mg/L		0.1	0.4
2/23/2004 10:15	29842	Metals-Water	Nickel	20	ug/L	U	20	80
2/23/2004 10:15	29842	Metals-Water	Selenium	1	ug/L	U	1	4

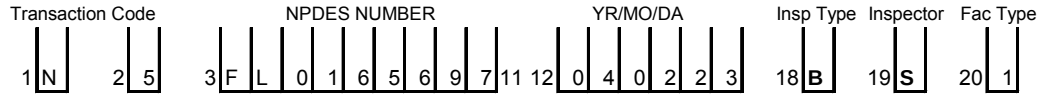
DATE SAMPLED	FIELD ID	ANALYSIS GROUP	COMPONENT	RESULT	UNITS	REMARK	MDL	PQL
2/23/2004 10:15	29842	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
2/23/2004 10:15	29842	Metals-Water	Zinc	5.3	ug/L	I	5	20
2/23/2004 10:15	29842	Nutrients-Liquid	Ammonia-N	0.8	mg N/L		0.1	0.2
2/23/2004 10:15	29842	Nutrients-Liquid	NO2NO3-N	0.006	mg N/L	I	0.004	0.01
2/23/2004 10:15	29842	Nutrients-Liquid	N_KJEL_TOT	2.3	mg N/L		0.06	0.2
2/23/2004 10:15	29842	Nutrients-Liquid	O-Phosphate-P	0.024	mg P/L		0.004	0.01
2/23/2004 10:15	29842	Nutrients-Liquid	Sulfide	0.82	mg S/L	Q	0.05	0.2
2/23/2004 10:15	29842	Nutrients-Liquid	TSS	4	mg/L	I	4	16
2/23/2004 10:15	29842	Nutrients-Liquid	Total-P	1.5	mg P/L		0.1	0.3
2/23/2004 11:10	29843	BNA-Water	1,2,4-Trichlorobenzene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	1,2-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	1,3-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	1,4-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	2,4,6-Trichlorophenol	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	2,4-Dichlorophenol	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	2,4-Dimethylphenol	49	ug/L	U	49	200
2/23/2004 11:10	29843	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	59
2/23/2004 11:10	29843	BNA-Water	2,4-Dinitrotoluene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	2,6-Dinitrotoluene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	2-Chloronaphthalene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	2-Chlorophenol	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
2/23/2004 11:10	29843	BNA-Water	2-Nitrophenol	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	U	39	160
2/23/2004 11:10	29843	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.9
2/23/2004 11:10	29843	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.9
2/23/2004 11:10	29843	BNA-Water	4,4'-DDT	1.5	ug/L	UJ	1.5	5.9
2/23/2004 11:10	29843	BNA-Water	4-Bromophenyl phenyl ether	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	4-Chloro-3-methylphenol	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	4-Chlorophenyl phenyl ether	2	ug/L	U	2	7.8
2/23/2004 11:10	29843	BNA-Water	4-Nitrophenol	15	ug/L	U	15	59
2/23/2004 11:10	29843	BNA-Water	Acenaphthene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Acenaphthylene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.9
2/23/2004 11:10	29843	BNA-Water	Anthracene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Benzidine	98	ug/L	U	98	390
2/23/2004 11:10	29843	BNA-Water	Benzo(a)anthracene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Benzo(a)pyrene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Benzo(b)fluoranthene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Benzo(g,h,i)perylene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Benzo(k)fluoranthene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Bis(2-chloroethoxy)methane	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Bis(2-chloroethyl)ether	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
2/23/2004 11:10	29843	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	59
2/23/2004 11:10	29843	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	20
2/23/2004 11:10	29843	BNA-Water	Chrysene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	20
2/23/2004 11:10	29843	BNA-Water	Di-n-octyl phthalate	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Dibenzo(a,h)anthracene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	5.9
2/23/2004 11:10	29843	BNA-Water	Diethyl phthalate	1.2	ug/L	I	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	200
2/23/2004 11:10	29843	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
2/23/2004 11:10	29843	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
2/23/2004 11:10	29843	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.9
2/23/2004 11:10	29843	BNA-Water	Endrin	1.5	ug/L	UJ	1.5	5.9
2/23/2004 11:10	29843	BNA-Water	Endrin aldehyde	3.9	ug/L	U	3.9	16
2/23/2004 11:10	29843	BNA-Water	Fluoranthene	0.98	ug/L	U	0.98	3.9

DATE SAMPLED	FIELD ID	ANALYSIS GROUP	COMPONENT	RESULT	UNITS	REMARK	MDL	PQL
2/23/2004 11:10	29843	BNA-Water	Fluorene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.9
2/23/2004 11:10	29843	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.9
2/23/2004 11:10	29843	BNA-Water	Hexachlorobenzene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
2/23/2004 11:10	29843	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
2/23/2004 11:10	29843	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
2/23/2004 11:10	29843	BNA-Water	Indeno(1,2,3-cd)pyrene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Isophorone	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	N-Nitrosodi-n-propylamine	2	ug/L	U	2	7.8
2/23/2004 11:10	29843	BNA-Water	N-Nitrosodimethylamine	2	ug/L	U	2	7.8
2/23/2004 11:10	29843	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
2/23/2004 11:10	29843	BNA-Water	Naphthalene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Nitrobenzene	2	ug/L	U	2	7.8
2/23/2004 11:10	29843	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
2/23/2004 11:10	29843	BNA-Water	Phenanthrene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Phenol	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	Pyrene	0.98	ug/L	U	0.98	3.9
2/23/2004 11:10	29843	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.9
2/23/2004 11:10	29843	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.9
2/23/2004 11:10	29843	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.9
2/23/2004 11:10	29843	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.9
2/23/2004 11:10	29843	GC-Water	Alachlor	0.63	ug/L	U	0.63	2.52
2/23/2004 11:10	29843	GC-Water	Ametryn	0.053	ug/L	U	0.053	0.212
2/23/2004 11:10	29843	GC-Water	Atrazine	0.053	ug/L	U	0.053	0.212
2/23/2004 11:10	29843	GC-Water	Azinphos Methyl	0.053	ug/L	UJ	0.053	0.212
2/23/2004 11:10	29843	GC-Water	Bromacil	0.21	ug/L	U	0.21	0.84
2/23/2004 11:10	29843	GC-Water	Butylate	0.21	ug/L	U	0.21	0.84
2/23/2004 11:10	29843	GC-Water	Chlorpyrifos Ethyl	0.053	ug/L	U	0.053	0.212
2/23/2004 11:10	29843	GC-Water	Chlorpyrifos Methyl	0.1	ug/L	U	0.1	0.4
2/23/2004 11:10	29843	GC-Water	Diazinon	0.053	ug/L	U	0.053	0.212
2/23/2004 11:10	29843	GC-Water	Ethion	0.053	ug/L	U	0.053	0.212
2/23/2004 11:10	29843	GC-Water	Ethoprop	0.1	ug/L	UJ	0.1	0.4
2/23/2004 11:10	29843	GC-Water	Fenamiphos	0.21	ug/L	U	0.21	0.84
2/23/2004 11:10	29843	GC-Water	Fonofos	0.1	ug/L	U	0.1	0.4
2/23/2004 11:10	29843	GC-Water	Hexazinone	0.1	ug/L	U	0.1	0.4
2/23/2004 11:10	29843	GC-Water	Malathion	0.16	ug/L	U	0.16	0.64
2/23/2004 11:10	29843	GC-Water	Metalaxyl	0.26	ug/L	U	0.26	1.04
2/23/2004 11:10	29843	GC-Water	Metolachlor	0.53	ug/L	U	0.53	2.12
2/23/2004 11:10	29843	GC-Water	Metribuzin	0.1	ug/L	U	0.1	0.4
2/23/2004 11:10	29843	GC-Water	Mevinphos	0.21	ug/L	UJ	0.21	0.84
2/23/2004 11:10	29843	GC-Water	Naled	0.84	ug/L	UJ	0.84	3.36
2/23/2004 11:10	29843	GC-Water	Norflurazon	0.1	ug/L	UJ	0.1	0.4
2/23/2004 11:10	29843	GC-Water	Parathion Ethyl	0.16	ug/L	U	0.16	0.64
2/23/2004 11:10	29843	GC-Water	Parathion Methyl	0.1	ug/L	U	0.1	0.4
2/23/2004 11:10	29843	GC-Water	Phorate	0.053	ug/L	UJ	0.053	0.212
2/23/2004 11:10	29843	GC-Water	Prometryn	0.16	ug/L	U	0.16	0.64
2/23/2004 11:10	29843	GC-Water	Simazine	0.053	ug/L	U	0.053	0.212
2/23/2004 11:10	29843	Metals-Water	Aluminum	7	ug/L	U	7	28
2/23/2004 11:10	29843	Metals-Water	Arsenic	9	ug/L	U	9	36
2/23/2004 11:10	29843	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
2/23/2004 11:10	29843	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
2/23/2004 11:10	29843	Metals-Water	Chromium	3	ug/L	U	3	12
2/23/2004 11:10	29843	Metals-Water	Copper	1	ug/L	U	1	4
2/23/2004 11:10	29843	Metals-Water	Iron	10	ug/L	U	10	40
2/23/2004 11:10	29843	Metals-Water	Lead	0.05	ug/L	U	0.05	0.2
2/23/2004 11:10	29843	Metals-Water	Magnesium	0.02	mg/L	U	0.02	0.08
2/23/2004 11:10	29843	Metals-Water	Nickel	4	ug/L	U	4	16
2/23/2004 11:10	29843	Metals-Water	Selenium	1	ug/L	U	1	4
2/23/2004 11:10	29843	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08

DATE SAMPLED	FIELD ID	ANALYSIS GROUP	COMPONENT	RESULT	UNITS	REMARK	MDL	PQL
2/23/2004 11:10	29843	Metals-Water	Zinc	5	ug/L	U	5	20
2/23/2004 11:10	29843	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
2/23/2004 11:10	29843	Nutrients-Liquid	NO2NO3-N	0.027	mg N/L		0.004	0.01
2/23/2004 11:10	29843	Nutrients-Liquid	N_KJEL_TOT	0.06	mg N/L	U	0.06	0.2
2/23/2004 11:10	29843	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
2/23/2004 11:10	29843	Nutrients-Liquid	Sulfide	0.05	mg S/L	UQ	0.05	0.2
2/23/2004 11:10	29843	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06
2/23/2004 11:10	29843	Overflow	Alpha, Total	0.8	pCi/L	U		
2/23/2004 11:10	29843	Overflow	Alpha-Counting Error	0.5	pCi/L			
2/23/2004 11:10	29843	Overflow	Radium 226	0.2	pCi/L	U		
2/23/2004 11:10	29843	Overflow	Radium 226-Counting Error	0.1	pCi/L			
2/23/2004 11:10	29843	Overflow	Radium 228	0.9	pCi/L	U		
2/23/2004 11:10	29843	Overflow	Radium 228-Counting Error	0.6	pCi/L			
2/23/2004 10:15	OUTFALL D-001 MZ	Overflow	Alpha, Total	58.2	pCi/L	U		
2/23/2004 10:15	OUTFALL D-001 MZ	Overflow	Alpha-Counting Error	38.2	pCi/L			
2/23/2004 10:15	OUTFALL D-001 MZ	Overflow	Radium 226	1.4	pCi/L			
2/23/2004 10:15	OUTFALL D-001 MZ	Overflow	Radium 226-Counting Error	0.2	pCi/L			
2/23/2004 10:15	OUTFALL D-001 MZ	Overflow	Radium 228	0.7	pCi/L	U		
2/23/2004 10:15	OUTFALL D-001 MZ	Overflow	Radium 228-Counting Error	0.5	pCi/L			

The Bioassay of the Fairwinds Condominiums Reverse Osmosis effluent sampled on 23 February 2004, NPDES #FL0165697.

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



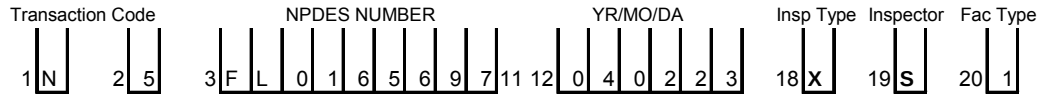
Remarks



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The Priority Pollutants Analysis for Bioassay of the Fairwinds Condominiums Reverse Osmosis effluent sampled on 23 February, 2004, NPDES #FL0165697.

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Remarks



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