

Bioassays of

Beverly Beach WWTF (Ocean City Utilities)

Flagler County

NPDES #FL0039756

Sampled June 23, 2003

February 2004

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

Beverly Beach Wastewater Treatment Facility (Ocean City Utilities), 240 Starboard Drive, Highway A1A, Beverly Beach, Flagler County, Florida, NPDES #FL0039756 – Effluent samples were collected on June 23, 2003.

Introduction

This facility has a permitted capacity of 0.215 MGD annual average daily flow (AADF) and a current annual average flow of 0.036 MGD (September-November, 2002) 0.041 MGD (July 2003 – information received after sampling event). The facility consists of three plants. Plant Number One having a 0.030 MGD (AADF) design capacity, and Plant Number Two, having a 0.035 MGD (AADF) design capacity, both utilize the extended-aeration activated-sludge treatment process, which includes influent screening, aeration, and secondary clarification. Plant Number Three is a 0.150 MGD (AADF) design capacity contact stabilization plant. The final treated effluent from all three plants is combined at Plant No. 2 then filtered, chlorinated, and dechlorinated, prior to discharging into the Class III Marine Waters of the Intracoastal Waterway approximately one mile north of the intersection of SR100 and A1A. New chlorine and dechlorination units have been installed to ensure adequate disinfection and dechlorination levels are being attained prior to discharge to the Intracoastal Waterway. The Beverly Beach outfall line is approximately 15 feet in length, and discharges at a depth of approximately 2.5 feet.

The Wastewater Permit that was issued: June 11, 1996 and expired June 11, 2001 was followed by a Permit Renewal received in NED DEP offices on December 28, 2000, which was not within the 180 day submittal period for an Administrative Extension. A Denial was issued on October 31, 2001 for that permit application. Denial was petitioned, a Consent Order was entered in on March 25, 2002, a new permit renewal application was received on November 27, 2002 and a Denial was sent out September 5, 2003. Currently the facility is operating without a valid permit (facility information provided by Jessica Weatherby, FDEP, Jacksonville).

Methods

Samples were collected by Patrick O'Connor 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 toxicity tests discussed in this report were performed following internal DEP SOP's TA07-03 and TA07-04. All internal DEP SOP's are available on the web at:
http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp.

The bioassay sample was adjusted to a salinity of 20 ppt using 40 Fathoms® artificial sea salts at the request of the Northeast District.

Toxicity Test Results

Tests were performed on June 24 to 26, 2003.

Americamysis bahia 48-hr acute screening bioassay - salinity adjusted effluent – Not Toxic

Menidia beryllina 48-hr acute screening bioassay - salinity adjusted effluent – Not Toxic

See Table 1 for bioassay bench sheets.

Chemistry Results

Total residual chlorine was 0.02 mg/L in the field and was not detected in the bioassay sample in the laboratory. Total ammonia and unionized ammonia were detected in the bioassay sample at concentrations of 2.5 mg/L and 0.167 mg/L, respectively.

The concentration of copper (5.9 µg/L) in the effluent exceeded the Class III Marine Water Quality Criterion for copper (≤ 2.9 ug/L, 62-302.530(24) F.A.C.).

See Table 2 for chemicals detected in the analytical chemistry samples.
See Table 3 for a complete list of chemical analyses performed.

Algal Growth Potential

Based upon the effluent conductivity, the Algal Growth Potential (AGP) sample was set up as a freshwater sample. The effluent AGP result was 6.62 mg dry wt/L of *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum*. Raschke and Shultz (1987) found that Algal Growth Potential (AGP) values above 5.0 mg dry weight/L represent a "problem" threshold for fresh receiving waters, implying nutrient enrichment. To determine the potential for nutrient enrichment in marine environments, the AGP test should have been performed with a salinity-adjusted sample and the saltwater alga, *Dunaliella tertiolecta.*

Conclusion

The effluent collected from this facility on June 23, 2003, was not toxic to the *A. bahia,* or *M. beryllina* test organisms during the 48-hour acute screening bioassays. Copper was detected at a concentration that exceeded the Class III Marine Surface Water Quality Criterion.

Literature Cited

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

Table 1. Data recorded during the 48-hour acute screening bioassays of a sample of effluent from Beverly Beach Wastewater Treatment Facility (Ocean City Utilities), 240 Starboard Drive, Highway A1A, Beverly Beach, Flagler County, Florida, NPDES# FL0039756, performed from 24 to 26 June 2003.

Facility:	**Beverly Beach WWTP (Ocean City Utilities)**	**NPDES #:**	**FL0039756**	Facility Type:	**WWTP**	**Analysts:**	Jacquelyn Champion
Location:	240 Starboard Dr., Highway A1A, Beverly Beach	Contact/District:	O'Connor/NE				Joshua Ayres
County:	Flagler	Test type:	static acute screen				James Daniels
Sample Collection Date:	6/23/2003 Time: 0940	# tests:	2	Receiving Water:	Intracoastal Waterway		Marshall Faircloth
Test Beginning Date:	6/24/2003 Time: 1515	Chlorination Type:	dechlorinated		Class III Marine		
Test Ending Date:	6/26/2003 Time: 1415				**Page 1 of 1**	**Reviewer:**	Rob Buda

Organism: ***Americamysis bahia*** Life stage: 4 days [A]Feeding: artemia

Chamber size: 500 ml Food Batch #: 01940425G

	Sample/Diluent	SURVIVAL # Alive			pH (Standard Units)			Temperature °C[B]			Diss. Oxygen mg/L [C]			Conductivity Uncorrected mmhos/cm	
Concentrations	Volume(mL)	0 hr	24 hr	48 hr	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	48 hour
Control A	0/500	5	5	5	8.4	8.3	8.1	23.9	24.3	25.8	6.8	5.1	6.2	30.0	34.2
Control B	0/500	5	5	5	8.4	8.3	8.1	23.8	24.1	26.6	7.0	5.2	6.1	30.2	35.5
Control C	0/500	5	5	5	8.4	8.3	8.1	23.8	24.1	25.9	7.1	5.2	5.5	30.4	34.0
Control D	0/500	5	5	5	8.4	8.3	8.1	23.8	23.8	25.8	7.1	5.2	5.5	30.5	33.7
Salt Ctrl A	0/500	5	5	5	8.3	8.2	8.1	24.0	24.1	26.3	7.5	5.4	5.1	31.1	34.2
Salt Ctrl B	0/500	5	5	5	8.3	8.2	8.1	24.0	24.1	25.9	7.5	5.3	5.0	31.3	34.2
Salt Ctrl C	0/500	5	5	5	8.3	8.2	8.1	24.0	24.3	25.1	7.6	5.0	5.0	31.0	34.1
Salt Ctrl D	0/500	5	5	5	8.3	8.2	8.1	24.0	24.2	26.2	7.6	5.2	5.1	31.1	34.7
100% A	500/0	5	5	5	8.1	8.1	7.9	24.3	24.4	26.4	6.7	5.0	4.2	32.6	37.2
100% B	500/0	5	5	5	8.1	8.1	7.9	24.3	24.2	27.0	6.8	4.9	4.4	32.6	38.4
100 % C	500/0	5	5	5	8.1	8.1	7.9	24.3	24.3	25.5	7.0	5.0	4.4	32.5	35.9
100% D	500/0	5	5	5	8.1	8.1	7.9	24.3	24.1	25.7	7.0	5.0	4.5	31.3	36.7

[A] Organisms were fed daily.

[B] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 23.5 -25.0 °C.
Incubator #3 temperature range for the test period was 25.5-26.5°C.

Test temperature deviation of 3.2°C was the result of cooling and warming during WQ measurements.

Organism: ***Menidia beryllina*** Life stage: 12 days [D]Feeding: artemia

Chamber size: 500 ml Food Batch #: 01940425G

	Sample/Diluent	SURVIVAL # Alive			pH (Standard Units)			Temperature °C[B]			Diss. Oxygen mg/L [C]			Conductivity Uncorrected mmhos/cm	
Concentrations	Volume(mL)	0 hr	24 hr	48 hr	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	48 hour
Control A	0/500	5	5	5	8.4	8.4	8.3	23.7	25.3	24.6	7.2	5.9	5.6	30.3	32.7
Control B	0/500	5	5	5	8.4	8.4	8.3	23.6	25.4	23.9	7.2	5.4	5.8	30.5	32.6
Control C	0/500	5	5	5	8.4	8.4	8.3	23.6	25.2	24.1	7.2	5.4	6.0	30.4	32.3
Control D	0/500	5	5	5	8.4	8.4	8.3	23.6	24.8	24.2	7.2	5.2	6.1	30.4	32.8
Salt Ctrl A	0/500	5	5	5	8.3	8.2	8.2	23.9	24.6	24.2	7.5	5.1	6.2	31.2	33.4
Salt Ctrl B	0/500	5	5	5	8.3	8.2	8.2	23.9	24.7	25.0	7.6	5.0	6.1	31.1	33.5
Salt Ctrl C	0/500	5	5	5	8.3	8.2	8.2	23.9	24.7	24.3	7.7	5.0	6.0	31.1	33.1
Salt Ctrl D	0/500	5	5	5	8.3	8.2	8.2	23.8	24.8	25.2	7.7	5.0	6.0	31.1	34.2
100% A	500/0	5	5	5	8.1	7.9	7.9	24.1	24.6	24.2	7.1	4.8	4.0	32.5	34.3
100% B	500/0	5	5	5	8.1	7.9	7.9	24.0	24.3	23.3	7.2	3.0	5.0	32.5	35.5
100 % C	500/0	5	5	5	8.1	7.9	7.9	24.0	24.5	24.4	7.1	3.5	4.5	32.4	34.9
100% D	500/0	5	5	5	8.1	7.9	7.8	24.0	25.5	24.3	7.1	3.2	4.5	32.4	34.5

[C] All replicates aerated at 24 hours.

[D] Organisms were fed prior to testing.

LIMS	
Job number:	TLH-2003-06-24-08-01
sample number:	683279

Data Transcription Verification	
date:	9/17/03
by:	Cathy Oaks/Brad Richardson

Total Residual CL2	**mg/L**	**Method**
Field:	0.02	-
Lab:	<0.03	Hach

Ammonia	**Total (mg/L)**	**Unionized (mg/L)**
NSW:	<0.017	<0.017
100% Sample:	2.500	0.167

Alk & Hardness	**Alkalinity (mg/L)**	**Hardness (mg/L)**
ASW:	220	-
100% Sample:	98	157.9[E]

[E] Hardness calculated based Calcium and magnesium concentrations.

Salinity [F]	**ppt**
Mysid control:	~20
Menidia control:	~20
Mysid 100% sample:	~20
Menidia 100% sample:	~20
unadjusted 100% sample:	<1

[F] Salinity based on conductivity and temperature.

Light Intensity during the test was 50-100 foot candles.
Photoperiod during the test was 16 hours of light : 8 hours of dark.

Table 2. Results of chemical analyses on the effluent from the Beverly Beach (Ocean City Utilities)Wastewater Treatment Plant sampled on June 23, 2003.

Metals

Aluminum	39	µg/L	I
Cadmium	0.11	µg/L	
Calcium	48.9	mg/L	
Copper	5.9	µg/L	
Iron	36	µg/L	I
Lead	0.22	µg/L	I
Magnesium	8.7	mg/L	
Zinc	86	µg/L	

Pesticides and Herbicides

Atrazine	0.099	µg/L	I
Diazinon	0.06	µg/L	I

Nutrients

Ammonia	3.6	mg N/L	
Nitrates and Nitrites	24	mg N/L	A
Total Kjeldahl Nitrogen	6.4	mg N/L	JA
Ortho-Phosphates	9.6	mg P/L	
Total-Phosphorous	10	mg P/L	A

Base, Neutral, & Acid Extractable Organics

None detected

[A] The reported value is an average of two or more values.
[I] The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
[J] Estimated value.

Table 3. Chemical Analyses performed on the effluent from the Beverly Beach (Ocean City Utilities) Wastewater Treatment Plant, sampled on June 23, 2003.

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	1,2,4-Trichlorobenzene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	1,2-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	1,3,5-Trinitrobenzene	3.9	ug/L	U	3.9	16
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	1,3-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	1,3-Dinitrobenzene	2	ug/L	U	2	7.8
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	1,4-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	1,4-Naphthoquinone	20	ug/L	UJ	20	78
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	1-Naphthylamine	9.8	ug/L	U	9.8	39
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	2,3,4,6-Tetrachlorophenol	2	ug/L	U	2	7.8
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	2,4,5-Trichlorophenol	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	2,4,6-Trichlorophenol	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	2,4-Dichlorophenol	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	2,4-Dimethylphenol	49	ug/L	U	49	200
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	59
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	2,4-Dinitrotoluene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	2,6-Dichlorophenol	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	2,6-Dinitrotoluene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	2-Acetylaminofluorene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	2-Chloronaphthalene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	2-Chlorophenol	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	2-Methylnaphthalene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	2-Naphthylamine	9.8	ug/L	U	9.8	39
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	2-Nitroaniline	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	2-Nitrophenol	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	2-Picoline	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	U	39	160
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	3,3'-Dimethylbenzidine	20	ug/L	UJ	20	78
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	3-Methylcholanthrene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	3-Nitroaniline	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	4-Aminobiphenyl	3.9	ug/L	U	3.9	16
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	4-Bromophenyl phenyl ether	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	4-Chloro-3-methylphenol	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	4-Chloroaniline	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	4-Chlorophenyl phenyl ether	2	ug/L	U	2	7.8
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	4-Nitroaniline	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	4-Nitrophenol	15	ug/L	U	15	59
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	5-Nitro-o-toluidine	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	12-Dimethylbenz(a)anthracer	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Acenaphthene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Acenaphthylene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Acetophenone	1.2	ug/L	I	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Aniline	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Anthracene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	obenzene/1,2-Diphenylhydraz	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Benzidine	98	ug/L	U	98	390
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Benzo(a)anthracene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Benzo(a)pyrene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Benzo(b)fluoranthene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Benzo(g,h,i)perylene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Benzo(k)fluoranthene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Benzyl alcohol	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Bis(2-chloroethoxy)methane	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Bis(2-chloroethyl)ether	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	59

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	20
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Chrysene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	20
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Di-n-octyl phthalate	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Dibenzo(a,h)anthracene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Dibenzofuran	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	5.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Diethyl phthalate	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	200
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Dimethylaminoazobenzene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Dinoseb	3.9	ug/L	U	3.9	16
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	12
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Endrin	1.5	ug/L	U	1.5	5.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Endrin aldehyde	3.9	ug/L	U	3.9	16
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Ethyl methanesulfonate	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Fluoranthene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Fluorene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Hexachlorobenzene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Hexachloropropene	2	ug/L	U	2	7.8
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Indeno(1,2,3-cd)pyrene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Isophorone	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Isosafrole	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Methapyrilene	3.9	ug/L	UJ	3.9	16
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Methyl methanesulfonate	0.98	ug/L	UJ	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	N-Nitrosodi-n-butylamine	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	N-Nitrosodi-n-propylamine	2	ug/L	U	2	7.8
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	N-Nitrosodiethylamine	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	N-Nitrosodimethylamine	2	ug/L	U	2	7.8
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	N-Nitrosomethylethylamine	2	ug/L	U	2	7.8
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	N-Nitrosomorpholine	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	N-Nitrosopiperidine	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	N-Nitrosopyrrolidine	2	ug/L	U	2	7.8
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Naphthalene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Nitrobenzene	2	ug/L	U	2	7.8
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Nitroquinoline-1-oxide	20	ug/L	U	20	78
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Pentachlorobenzene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Pentachloroethane	49	ug/L	U	49	200
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Pentachloronitrobenzene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Phenacetin	3.9	ug/L	U	3.9	12
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Phenanthrene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Phenol	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Pyrene	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Pyridine	3.9	ug/L	U	3.9	16
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	Safrole	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.9
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	m,p-Cresols	2	ug/L	U	2	7.8
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	o-Cresol	2	ug/L	U	2	7.8
6/23/2003 9:40	EQUIPMENT BLK	BNA-Water	o-Toluidine	0.98	ug/L	U	0.98	3.9
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Alachlor	0.57	ug/L	U	0.57	2.28
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.192
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Atrazine	0.048	ug/L	U	0.048	0.192

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Azinphos Methyl	0.048	ug/L	U	0.048	0.192
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.192
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Chlorpyrifos Methyl	0.095	ug/L	U	0.095	0.38
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Diazinon	0.048	ug/L	U	0.048	0.192
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Ethion	0.048	ug/L	U	0.048	0.192
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Ethoprop	0.095	ug/L	U	0.095	0.38
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Fonofos	0.095	ug/L	U	0.095	0.38
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Hexazinone	0.095	ug/L	U	0.095	0.38
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Metolachlor	0.48	ug/L	U	0.48	1.92
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Metribuzin	0.095	ug/L	U	0.095	0.38
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Naled	0.76	ug/L	U	0.76	3.04
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Norflurazon	0.095	ug/L	U	0.095	0.38
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Parathion Methyl	0.095	ug/L	U	0.095	0.38
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Phorate	0.048	ug/L	U	0.048	0.192
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
6/23/2003 9:40	EQUIPMENT BLK	GC-Water	Simazine	0.048	ug/L	U	0.048	0.192
6/23/2003 9:40	EQUIPMENT BLK	Metals-Water	Aluminum	10	ug/L	U	10	40
6/23/2003 9:40	EQUIPMENT BLK	Metals-Water	Arsenic	5	ug/L	U	5	20
6/23/2003 9:40	EQUIPMENT BLK	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
6/23/2003 9:40	EQUIPMENT BLK	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
6/23/2003 9:40	EQUIPMENT BLK	Metals-Water	Chromium	2	ug/L	U	2	8
6/23/2003 9:40	EQUIPMENT BLK	Metals-Water	Copper	0.8	ug/L	U	0.8	3.2
6/23/2003 9:40	EQUIPMENT BLK	Metals-Water	Iron	15	ug/L	U	15	60
6/23/2003 9:40	EQUIPMENT BLK	Metals-Water	Lead	0.1	ug/L	U	0.1	0.4
6/23/2003 9:40	EQUIPMENT BLK	Metals-Water	Magnesium	0.02	mg/L	U	0.02	0.08
6/23/2003 9:40	EQUIPMENT BLK	Metals-Water	Nickel	2.5	ug/L	U	2.5	10
6/23/2003 9:40	EQUIPMENT BLK	Metals-Water	Selenium	1	ug/L	U	1	4
6/23/2003 9:40	EQUIPMENT BLK	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
6/23/2003 9:40	EQUIPMENT BLK	Metals-Water	Zinc	4	ug/L	U	4	16
6/23/2003 9:40	EQUIPMENT BLK	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
6/23/2003 9:40	EQUIPMENT BLK	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
6/23/2003 9:40	EQUIPMENT BLK	Nutrients-Liquid	N_KJEL_TOT	0.18	mg N/L	U	0.18	0.6
6/23/2003 9:40	EQUIPMENT BLK	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
6/23/2003 9:40	EQUIPMENT BLK	Nutrients-Liquid	Total-P	0.015	mg P/L	U	0.015	0.04
6/23/2003 9:40	FINAL EFFLUENT	Bio-AGP/LimNut	Algal Growth Potential	6.62	mg DryWt/L		0.1	0.3
6/23/2003 9:40	FINAL EFFLUENT	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
6/23/2003 9:40	FINAL EFFLUENT	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
6/23/2003 9:40	FINAL EFFLUENT	Bio-Toxicology	Bioassay-Acute-Screen-SW-Fish, LC50	100	LC50	L		
6/23/2003 9:40	FINAL EFFLUENT	Bio-Toxicology	Bioassay-Acute-Screen-SW-Mysid, LC50	100	LC50	L		
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	1,2,4-Trichlorobenzene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	1,2-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	1,3,5-Trinitrobenzene	3.8	ug/L	U	3.8	15
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	1,3-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.6
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	1,4-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	1,4-Naphthoquinone	19	ug/L	UJ	19	76
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	1-Naphthylamine	9.5	ug/L	U	9.5	38
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	U	1.9	7.6
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	2,4,5-Trichlorophenol	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	2,4,6-Trichlorophenol	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	2,4-Dichlorophenol	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	57
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	2,4-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	2,6-Dichlorophenol	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	2,6-Dinitrotoluene	0.95	ug/L	U	0.95	3.8

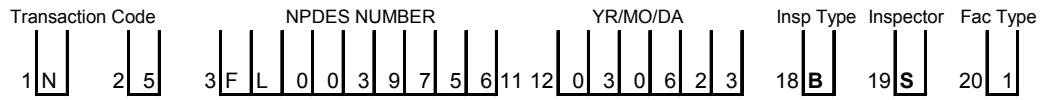
Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	2-Acetylaminofluorene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	2-Chloronaphthalene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	2-Chlorophenol	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	2-Methyl-4,6-dinitrophenol	2.8	ug/L	U	2.8	11
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	2-Methylnaphthalene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	2-Naphthylamine	9.5	ug/L	U	9.5	38
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	2-Nitroaniline	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	2-Nitrophenol	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	2-Picoline	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	UJ	19	76
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	3-Methylcholanthrene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	3-Nitroaniline	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	4-Aminobiphenyl	3.8	ug/L	U	3.8	15
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	4-Bromophenyl phenyl ether	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	4-Chloro-3-methylphenol	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	4-Chloroaniline	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.6
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	4-Nitroaniline	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	4-Nitrophenol	14	ug/L	U	14	57
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	5-Nitro-o-toluidine	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Acenaphthene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Acenaphthylene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Acetophenone	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Aniline	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Anthracene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Benzidine	95	ug/L	U	95	380
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Benzo(a)anthracene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Benzo(a)pyrene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Benzo(b)fluoranthene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Benzo(g,h,i)perylene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Benzo(k)fluoranthene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Benzyl alcohol	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Bis(2-chloroethoxy)methane	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Bis(2-chloroethyl)ether	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Bis(2-chloroisopropyl)ether	2.8	ug/L	U	2.8	11
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Chrysene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Di-n-octyl phthalate	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Dibenzo(a,h)anthracene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Dibenzofuran	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Diethyl phthalate	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Dimethylaminoazobenzene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Dinoseb	3.8	ug/L	U	3.8	15
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Diphenylamine	2.8	ug/L	U	2.8	11
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.7

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Ethyl methanesulfonate	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Fluoranthene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Fluorene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.7
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Hexachlorobenzene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Hexachlorobutadiene	2.8	ug/L	U	2.8	11
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Hexachlorocyclopentadiene	2.8	ug/L	U	2.8	11
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Hexachloroethane	2.8	ug/L	U	2.8	11
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Hexachloropropene	1.9	ug/L	U	1.9	7.6
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Indeno(1,2,3-cd)pyrene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Isophorone	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Isosafrole	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Methapyrilene	3.8	ug/L	UJ	3.8	15
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Methyl methanesulfonate	0.95	ug/L	UJ	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	N-Nitrosodi-n-butylamine	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.6
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	N-Nitrosodiethylamine	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.6
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	N-Nitrosodiphenylamine	2.8	ug/L	U	2.8	11
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.6
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	N-Nitrosomorpholine	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	N-Nitrosopiperidine	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.6
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Naphthalene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.6
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	76
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Pentachlorobenzene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Pentachloroethane	48	ug/L	U	48	190
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Pentachloronitrobenzene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Pentachlorophenol	2.8	ug/L	U	2.8	11
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Phenacetin	3.8	ug/L	U	3.8	11
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Phenanthrene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Phenol	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Pyrene	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Pyridine	3.8	ug/L	U	3.8	15
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	Safrole	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.6
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.6
6/23/2003 9:40	FINAL EFFLUENT	BNA-Water	o-Toluidine	0.95	ug/L	U	0.95	3.8
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Alachlor	0.57	ug/L	U	0.57	2.28
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.192
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Atrazine	0.099	ug/L	I	0.048	0.192
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Azinphos Methyl	0.048	ug/L	U	0.048	0.192
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.192
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Chlorpyrifos Methyl	0.095	ug/L	U	0.095	0.38
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Diazinon	0.06	ug/L	I	0.048	0.192
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Ethion	0.048	ug/L	U	0.048	0.192
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Ethoprop	0.095	ug/L	U	0.095	0.38
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Fonofos	0.095	ug/L	U	0.095	0.38
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Hexazinone	0.095	ug/L	U	0.095	0.38
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Metolachlor	0.48	ug/L	U	0.48	1.92
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Metribuzin	0.095	ug/L	U	0.095	0.38
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Naled	0.76	ug/L	U	0.76	3.04
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Norflurazon	0.095	ug/L	U	0.095	0.38
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Parathion Methyl	0.095	ug/L	U	0.095	0.38
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Phorate	0.048	ug/L	U	0.048	0.192
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
6/23/2003 9:40	FINAL EFFLUENT	GC-Water	Simazine	0.048	ug/L	U	0.048	0.192
6/23/2003 9:40	FINAL EFFLUENT	Metals-Water	Aluminum	39	ug/L	I	10	40
6/23/2003 9:40	FINAL EFFLUENT	Metals-Water	Arsenic	5	ug/L	U	5	20
6/23/2003 9:40	FINAL EFFLUENT	Metals-Water	Cadmium	0.11	ug/L		0.025	0.1
6/23/2003 9:40	FINAL EFFLUENT	Metals-Water	Calcium	48.9	mg/L		0.05	0.2
6/23/2003 9:40	FINAL EFFLUENT	Metals-Water	Chromium	2	ug/L	U	2	8
6/23/2003 9:40	FINAL EFFLUENT	Metals-Water	Copper	5.9	ug/L		0.8	3.2
6/23/2003 9:40	FINAL EFFLUENT	Metals-Water	Iron	36	ug/L	I	15	60
6/23/2003 9:40	FINAL EFFLUENT	Metals-Water	Lead	0.22	ug/L	I	0.1	0.4
6/23/2003 9:40	FINAL EFFLUENT	Metals-Water	Magnesium	8.7	mg/L		0.02	0.08
6/23/2003 9:40	FINAL EFFLUENT	Metals-Water	Nickel	2.5	ug/L	U	2.5	10
6/23/2003 9:40	FINAL EFFLUENT	Metals-Water	Selenium	1	ug/L	U	1	4
6/23/2003 9:40	FINAL EFFLUENT	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
6/23/2003 9:40	FINAL EFFLUENT	Metals-Water	Zinc	86	ug/L		4	16
6/23/2003 9:40	FINAL EFFLUENT	Nutrients-Liquid	Ammonia-N	3.6	mg N/L		0.2	0.4
6/23/2003 9:40	FINAL EFFLUENT	Nutrients-Liquid	NO2NO3-N	24	mg N/L	A	0.4	1
6/23/2003 9:40	FINAL EFFLUENT	Nutrients-Liquid	N_KJEL_TOT	6.4	mg N/L	JA	0.3	1
6/23/2003 9:40	FINAL EFFLUENT	Nutrients-Liquid	O-Phosphate-P	9.6	mg P/L		0.4	1
6/23/2003 9:40	FINAL EFFLUENT	Nutrients-Liquid	Total-P	10	mg P/L	A	0.3	0.8

The Bioassay of the Beverly Beach (Ocean City Utilities) WWTP effluent sampled on June 23, 2003, NPDES #FL0039756.

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



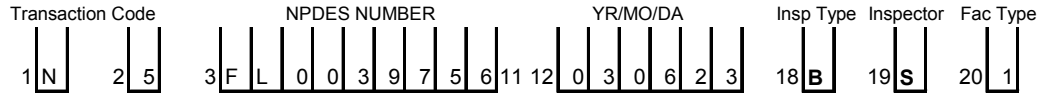
Remarks



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The Priority Pollutants Analysis for Bioassay of the Beverly Beach (Ocean City Utilities) WWTP effluent sampled on June 23, 2003, NPDES #FL0039756.

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



Remarks



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