

Bioassays of

Pensacola Beach Wastewater Treatment Plant

Pensacola Beach, Escambia County, Florida

NPDES #FL0024007

Sampled 2/10/03

May 2003

Biology Section

Division of Resource Assessment & Management

Comprehensive Quality Assurance Plan #870346G

Bioassays of

Pensacola Beach Wastewater Treatment Plant

Pensacola Beach, Escambia County, Florida

NPDES #FL0024007

Biology Section
Bureau of Laboratories
May 2003

Pensacola Beach WWTP, 53 Via Deluna Street, Pensacola Beach, Escambia County, Florida, NPDES #FL0024007, tests performed on 11 to 18 February 2003.

Introduction

This WWTP has a design flow of 2.4 MGD and an average daily flow of 0.581 MGD (November – December, 2002). The facility consists of two parallel treatment trains referred to as Plant #1 and Plant #2. The treatment process of Plant #1 includes screening, grit removal, influent pumping, aeration, secondary clarification, chlorination, pressure filtration, dechlorination using sulfur dioxide gas, caustic soda addition for pH adjustment, and flow metering. The treatment process of Plant #2 includes screening, grit removal, influent pumping, nitrification, denitrification, reaeration, secondary clarification, gravity filtration, chlorination, dechlorination using sulfur dioxide gas, caustic soda addition for pH adjustment and flow metering. Wastewater is released into the Class III marine waters of the Santa Rosa Sound (facility information provided by Wesley Keller, FDEP, Pensacola).

Methods

Samples were collected by Glenn Butts 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 7-day chronic screening toxicity tests discussed in this report were performed following internal DEP SOP's TA07_05 and TA07_09. All internal DEP SOP's are available on the web at: http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp.

Toxicity Test Results

Ceriodaphnia dubia chronic screen – The No Observed Effect Concentration for survival, and fecundity was 100%.

Pimephales promelas chronic screen – The No Observed Effect Concentration for survival and biomass was 100%.

See Table 1 for bioassay bench sheets.

Chemistry Results

Total residual chlorine and total ammonia were not detected in any of the bioassay samples in the laboratory.

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

Conclusion

The samples of effluent collected from this facility on February 10, 12, and 14, 2003, did not show chronic toxicity to either test species during the 7-day chronic bioassay tests.

Table 1. Data recorded during the chronic screening bioassays of a sample of effluent from the Pensacola Beach WWTP, 53 Via Deluna Street, Pensacola Beach, Escambia County, Florida, NPDES# FL0024007, performed from 11 to 18 February 2003.

Facility:	**Pensacola Beach WWTP**		**NPDES #:**	**FL0024007**	Facility Type:	**WWTP**	**Analysts:** Marshall Faircloth
Location:	53 Via Deluna Street, Pensacola Beach		Contact/District:	Butts/NW			Joshua Ayres
County:	Escambia		Test type:	chronic renewal screen			Jacquelyn Brynda
Sample #1 Collection Date:	2/10/2003	Time: 1115	# tests:	2	Receiving Water:	Santa Rosa Sound	
Sample #2 Collection Date:	2/12/2003	Time: 0735	Chlorination Type:	dechlorinated		Class III Marine	
Sample #3 Collection Date:	2/14/2003	Time: 0920					
Test Beginning Date:	2/11/2003	Time: 1330				**Page 1 of 2**	
Test Ending Date:	2/18/2003	Time: 1000	FDEP SOP#:	TA07_05			**Reviewer:** David Whiting

Organism: ***Ceriodaphnia dubia*** Life stage: <24 Hrs [A]Feeding: YCT/Algae
Chamber size: 30mL Food Batch #: 5 / 10

	Sample/Diluent	# Young								
Concentrations	Volume(mL)	0 hr	24 hr	48 hr	72 hr	96 hr	120 hr	144 hr	168	**Total**
Control A	0/20	0	0	0	0	4	6	10	0	20
Control B	0/20	0	0	0	0	2	8	0	12	22
Control C	0/20	0	0	0	0	1	10	13	0	24
Control D	0/20	0	0	0	0	2	9	0	10	21
Control E	0/20	0	0	0	0	3	8	11	0	22
Control F	0/20	0	0	0	0	3	12	0	14	29
Control G	0/20	0	0	0	0	2	5	0	9	16
Control H	0/20	0	0	0	0	1	9	0	12	22
Control I	0/20	0	0	0	0	2	0	8	11	21
Control J	0/20	0	0	0	0	1	9	0	13	23
100% A	20/0	0	0	0	0	3	6	0	11	20
100% B	20/0	0	0	0	0	5	0	5	15	25
100% C	20/0	0	0	0	0	4	11	12	0	27
100% D	20/0	0	0	0	0	4	5	0	15	24
100% E	20/0	0	0	0	0	1	8	7	9	25
100% F	20/0	0	0	0	0	4	8	0	15	27
100% G	20/0	0	0	0	0	4	10	0	0	14
100% H	20/0	0	0	0	0	5	10	10	0	25
100% I	20/0	0	0	0	0	4	8	0	14	26
100% J	20/0	0	0	0	0	4	0	12	15	31

[A] Organisms were fed daily.

Total Young	Young	Young per Adult
Control	220	22
100%	244	24.4

[B] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 24.0-26.5°C.
Incubator #3 temperature range for the test period was 24.0-25.0°C.

Ceriodaphnia dubia			**After Renewal** New Sample			Conductivity Uncorrected	**Before Renewal** Old Sample	
Concentrations	Replicate	Hour	pH	Temperature[B]	Dissolved Oxygen	umhos/cm	pH	Dissolved Oxygen
Control	A	0	8.1	24.8	8.0	175	-	-
100%			7.7	24.7	9.8	1090	-	-
Control	B	24	7.9	24.3	8.1	170	8.2	8.2
100%			7.8	24.1	8.5	1045	8.1	8.3
Control	C	48	7.9	25.3	7.6	185	8.1	7.3
100%			8.1	25.2	7.5	1170	8.0	7.4
Control	D	72	8.0	24.9	7.5	210	8.0	8.1
100%			7.8	25.7	7.6	1120	8.0	7.9
Control	E	96	8.1	24.8	7.6	190	8.1	7.8
100%			7.9	25.5	7.5	1120	8.0	7.5
Control	F	120	7.9	25.7	8.0	191	8.0	7.7
100%			7.9	25.3	7.7	1077	7.9	7.9
Control	G	144	8.0	25.9	7.7	175	8.0	8.2
100%			8.1	25.5	8.0	1085	8.0	8.1
Control	H	168	-	-	-	-	8.0	8.1
100%			-	-	-	-	7.9	7.8

Continued

LIMS	
Job number 1:	TLH-2003-02-11-01
sample number 1:	652538
Job number 2:	TLH-2003-02-13-56
sample number 2:	653532
Job number 3:	TLH-2003-02-17-14
sample number 3:	654291

Data Transcription Verification	
date:	4/14/2003
by:	Brad Richardson
	Cathy Oaks

Total Residual CL2	mg/L	Method
Field:	<0.01	-
Lab Sample 1:	<0.03	Hach
Lab Sample 2:	<0.03	Hach
Lab Sample 3:	<0.03	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water :	<0.017	<0.017
100% Sample 1:	<0.017	<0.017
100% Sample 2:	<0.017	<0.017
100% Sample 3:	<0.017	<0.017

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	84	80
100% Sample 1:	76	140
100% Sample 2:	77	148
100% Sample 3:	75	141

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

Table 1. Data recorded during the chronic screening bioassays of a sample of effluent from the Pensacola Beach WWTP, 53 Via Deluna Street, Pensacola Beach, Escambia County, Florida, NPDES# FL0024007, performed from 11 to 18 February 2003.
Concluded

Facility: **Pensacola Beach WWTP** | **NPDES #: FL0024007** | Facility Type: **WWTP** | **Analysts:** Marshall Faircloth
Location: 53 Via Deluna Street, Pensacola Beach | Contact/District: Butts/NW | Joshua Ayres
County: Escambia | Test type: chronic renewal screen | James Daniels
Sample #1 Collection Date: 2/10/2003 Time: 1115 | # tests: 2 | Receiving Water: Santa Rosa Sound | Jacquelyn Brynda
Sample #2 Collection Date: 2/12/2003 Time: 0735 | Chlorination Type: dechlorinated | Class III Marine
Sample #3 Collection Date: 2/14/2003 Time: 0920
Test Beginning Date: 2/11/2003 Time: 1400 | **Page 2 of 2**
Test Ending Date: 2/18/2003 Time: 1430 | FDEP SOP#: TA07_09 | **Reviewer:** David Whiting

Organism: ***Pimephales promelas*** Life stage: 24 hrs [A]Feeding: Artemia
Chamber size: 1L Food Batch #: 01940425G

[A] Organisms were fed daily.

Concentrations	Sample/Diluent Volume(mL)	Survival # Alive 0 hr	24 hr	48 hr	72 hr	96 hr	120 hr	144 hr	168 hr
Control A	0/500	10	10	10	10	10	10	10	10
Control B	0/500	10	10	9	9	9	9	9	9
Control C	0/500	10	9	9	9	9	9	9	9
Control D	0/500	10	10	10	10	10	10	10	10
100% A	500/0	10	10	10	10	10	10	9	9
100% B	500/0	10	10	10	10	10	10	9	9
100% C	500/0	10	10	10	10	9	9	9	9
100% D	500/0	10	10	10	9	9	9	9	9

Concentrations	Biomass at end of test (mg)
Control A	0.891
Control B	0.691
Control C	0.645
Control D	0.852
100% A	0.704
100% B	0.795
100% C	0.898
100% D	0.870

[B] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 24.0-26.5°C.
Incubator #3 temperature range for the test period was 24.0-25.0°C.

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

Concentrations	Replicate	Hour	Before Renewal pH	Temperature[B]	Dissolved Oxygen	Conductivity Uncorrected mmhos/cm	After Renewal pH	Temperature	Dissolved Oxygen	Conductivity Uncorrected mmhos/cm
Control	A	0	8.1	24.2	7.7	325	-	-	-	-
100%			7.7	24.5	9.7	1070	-	-	-	-
Control	B	24	7.9	26.7	7.5	335	8.1	24.8	7.8	320
100%			8.0	26.1	7.5	1130	7.8	26.4	8.5	1085
Control	C	48	7.8	25.1	6.2	335	8.0	25.1	7.3	310
100%			7.7	25.2	6.3	1050	8.0	25.0	7.4	1155
Control	D	72	7.6	26.2	5.7	315	7.9	25.0	7.7	315
100%			7.6	26.5	5.4	1130	7.6	25.6	7.8	1140
Control	A	96	7.5	26.0	5.7	345	7.7	25.7	7.6	320
100%			7.4	25.8	5.8	1180	7.6	25.7	7.7	1155
Control	B	120	7.6	25.9	7.0	320	7.7	25.8	7.2	325
100%			7.6	26.1	6.3	1220	7.8	25.4	7.6	1190
Control	C	144	7.6	25.4	6.6	375	7.8	25.5	7.7	315
100%			7.6	25.0	6.6	1200	8.0	25.8	7.3	1105
Control	D	168	7.5	26.8	5.5	381	-	-	-	-
100%			7.7	26.7	5.5	1090	-	-	-	-

LIMS	
Job number 1:	TLH-2003-02-11-04
sample number 1:	652538
Job number 2:	TLH-2003-02-13-56
sample number 2:	653532
Job number 3:	TLH-2003-02-17-14
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Total Residual CL2	mg/L	Method
Field:	<0.01	-
Lab Sample 1:	<0.03	Hach
Lab Sample 2:	<0.03	Hach
Lab Sample 3:	<0.03	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water :	<0.017	<0.017
100% Sample 1:	<0.017	<0.017
100% Sample 2:	<0.017	<0.017
100% Sample 3:	<0.017	<0.017

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	81	90
100% Sample 1:	76	140
100% Sample 2:	77	148
100% Sample 3:	75	141

Table 2. Results of chemical analyses on the effluent from Pensacola Beach WWTP sampled on February 10, 2003.

Metals

Aluminum	10	ug/L	[I]
Calcium	30.5	mg/L	
Copper	1.2	ug/L	[I]
Iron	139	ug/L	
Lead	0.12	ug/L	[I]
Magnesium	14.9	mg/L	
Zinc	20	ug/L	

Pesticides and Herbicides

None detected

Nutrients

Ammonia	0.034	mg N/L	
Nitrates and Nitrites	4.181	mg N/L	
Total Kjeldahl Nitrogen	0.75	mg N/L	[J]
Ortho Phosphates	0.29	mg P/L	
Total Phosphorous	0.35	mg P/L	

Base, Neutral, & Acid Extractable Organics

None detected

[J] The reported value is an estimated value.
[I] The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Table 3. Chemical Analyses performed on the effluent from Pensacola Beach WWTP, sampled on February 10, 2003.

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
2/10/2003 11:15	#1	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	1,2,4-Trichlorobenzene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	1,2-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	1,3,5-Trinitrobenzene	3.9	ug/L	U	3.9	16
2/10/2003 11:15	#1	BNA-Water	1,3-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.8
2/10/2003 11:15	#1	BNA-Water	1,4-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	1,4-Naphthoquinone	19	ug/L	UJ	19	78
2/10/2003 11:15	#1	BNA-Water	1-Naphthylamine	9.7	ug/L	U	9.7	39
2/10/2003 11:15	#1	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	U	1.9	7.8
2/10/2003 11:15	#1	BNA-Water	2,4,5-Trichlorophenol	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	2,4,6-Trichlorophenol	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	2,4-Dichlorophenol	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	2,4-Dimethylphenol	49	ug/L	U	49	190
2/10/2003 11:15	#1	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	58
2/10/2003 11:15	#1	BNA-Water	2,4-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	2,6-Dichlorophenol	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	2,6-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	2-Acetylaminofluorene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	2-Chloronaphthalene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	2-Chlorophenol	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
2/10/2003 11:15	#1	BNA-Water	2-Methylnaphthalene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	2-Naphthylamine	9.7	ug/L	U	9.7	39
2/10/2003 11:15	#1	BNA-Water	2-Nitroaniline	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	2-Nitrophenol	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	2-Picoline	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	U	39	160
2/10/2003 11:15	#1	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	UJ	19	78
2/10/2003 11:15	#1	BNA-Water	3-Methylcholanthrene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	3-Nitroaniline	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15	#1	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.8
2/10/2003 11:15	#1	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.8

2/10/2003 11:15 #1	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.8
2/10/2003 11:15 #1	BNA-Water	4-Aminobiphenyl	3.9	ug/L	UJ	3.9	16
2/10/2003 11:15 #1	BNA-Water	4-Bromophenyl phenyl ether	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	4-Chloro-3-methylphenol	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	4-Chloroaniline	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.8
2/10/2003 11:15 #1	BNA-Water	4-Nitroaniline	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	4-Nitrophenol	15	ug/L	U	15	58
2/10/2003 11:15 #1	BNA-Water	5-Nitro-o-toluidine	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Acenaphthene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Acenaphthylene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Acetophenone	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.8
2/10/2003 11:15 #1	BNA-Water	Aniline	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Anthracene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Benzidine	97	ug/L	U	97	390
2/10/2003 11:15 #1	BNA-Water	Benzo(a)anthracene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Benzo(a)pyrene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Benzo(b)fluoranthene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Benzo(g,h,i)perylene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Benzo(k)fluoranthene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Benzyl alcohol	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Bis(2-chloroethoxy)methane	0.97	ug/L	UJ	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Bis(2-chloroethyl)ether	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
2/10/2003 11:15 #1	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	58
2/10/2003 11:15 #1	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	19
2/10/2003 11:15 #1	BNA-Water	Chrysene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	19
2/10/2003 11:15 #1	BNA-Water	Di-n-octyl phthalate	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Dibenzo(a,h)anthracene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Dibenzofuran	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	5.8
2/10/2003 11:15 #1	BNA-Water	Diethyl phthalate	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	190

2/10/2003 11:15 #1	BNA-Water	Dimethylaminoazobenzene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Dinoseb	3.9	ug/L	U	3.9	16
2/10/2003 11:15 #1	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	12
2/10/2003 11:15 #1	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
2/10/2003 11:15 #1	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
2/10/2003 11:15 #1	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.8
2/10/2003 11:15 #1	BNA-Water	Endrin	1.5	ug/L	U	1.5	5.8
2/10/2003 11:15 #1	BNA-Water	Endrin aldehyde	3.9	ug/L	U	3.9	16
2/10/2003 11:15 #1	BNA-Water	Ethyl methanesulfonate	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Fluoranthene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Fluorene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.8
2/10/2003 11:15 #1	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.8
2/10/2003 11:15 #1	BNA-Water	Hexachlorobenzene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
2/10/2003 11:15 #1	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
2/10/2003 11:15 #1	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
2/10/2003 11:15 #1	BNA-Water	Hexachloropropene	1.9	ug/L	U	1.9	7.8
2/10/2003 11:15 #1	BNA-Water	Indeno(1,2,3-cd)pyrene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Isophorone	0.97	ug/L	UJ	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Isosafrole	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Methapyrilene	3.9	ug/L	UJ	3.9	16
2/10/2003 11:15 #1	BNA-Water	Methyl methanesulfonate	0.97	ug/L	UJ	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	N-Nitrosodi-n-butylamine	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.8
2/10/2003 11:15 #1	BNA-Water	N-Nitrosodiethylamine	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.8
2/10/2003 11:15 #1	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
2/10/2003 11:15 #1	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.8
2/10/2003 11:15 #1	BNA-Water	N-Nitrosomorpholine	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	N-Nitrosopiperidine	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.8
2/10/2003 11:15 #1	BNA-Water	Naphthalene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.8
2/10/2003 11:15 #1	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	78
2/10/2003 11:15 #1	BNA-Water	Pentachlorobenzene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Pentachloroethane	49	ug/L	U	49	190

2/10/2003 11:15 #1	BNA-Water	Pentachloronitrobenzene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
2/10/2003 11:15 #1	BNA-Water	Phenacetin	3.9	ug/L	U	3.9	12
2/10/2003 11:15 #1	BNA-Water	Phenanthrene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Phenol	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Pyrene	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	Pyridine	3.9	ug/L	U	3.9	16
2/10/2003 11:15 #1	BNA-Water	Safrole	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.8
2/10/2003 11:15 #1	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.8
2/10/2003 11:15 #1	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.8
2/10/2003 11:15 #1	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.8
2/10/2003 11:15 #1	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.8
2/10/2003 11:15 #1	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.8
2/10/2003 11:15 #1	BNA-Water	o-Toluidine	0.97	ug/L	U	0.97	3.9
2/10/2003 11:15 #1	Bio-Toxicology	Bioassay-Chronic-Scrn-FW-C.dubia, N	100	NOEC	QY		
2/10/2003 11:15 #1	Bio-Toxicology	Bioassay-Chronic-Scrn-FW-Fish, NOE	100	NOEC	QY		
2/10/2003 11:15 #1	GC-Water	Alachlor	0.58	ug/L	UJ	0.58	2.32
2/10/2003 11:15 #1	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.192
2/10/2003 11:15 #1	GC-Water	Atrazine	0.048	ug/L	U	0.048	0.192
2/10/2003 11:15 #1	GC-Water	Azinphos Methyl	0.048	ug/L	U	0.048	0.192
2/10/2003 11:15 #1	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
2/10/2003 11:15 #1	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
2/10/2003 11:15 #1	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.192
2/10/2003 11:15 #1	GC-Water	Chlorpyrifos Methyl	0.096	ug/L	U	0.096	0.384
2/10/2003 11:15 #1	GC-Water	Diazinon	0.048	ug/L	U	0.048	0.192
2/10/2003 11:15 #1	GC-Water	Ethion	0.048	ug/L	U	0.048	0.192
2/10/2003 11:15 #1	GC-Water	Ethoprop	0.096	ug/L	U	0.096	0.384
2/10/2003 11:15 #1	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
2/10/2003 11:15 #1	GC-Water	Fonofos	0.096	ug/L	U	0.096	0.384
2/10/2003 11:15 #1	GC-Water	Hexazinone	0.096	ug/L	U	0.096	0.384
2/10/2003 11:15 #1	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
2/10/2003 11:15 #1	GC-Water	Metalaxyl	0.24	ug/L	UJ	0.24	0.96
2/10/2003 11:15 #1	GC-Water	Metolachlor	0.48	ug/L	UJ	0.48	1.92
2/10/2003 11:15 #1	GC-Water	Metribuzin	0.096	ug/L	U	0.096	0.384
2/10/2003 11:15 #1	GC-Water	Mevinphos	0.19	ug/L	UJ	0.19	0.76
2/10/2003 11:15 #1	GC-Water	Naled	0.77	ug/L	U	0.77	3.08

2/10/2003 11:15	#1	GC-Water	Norflurazon	0.096	ug/L	U	0.096	0.384
2/10/2003 11:15	#1	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
2/10/2003 11:15	#1	GC-Water	Parathion Methyl	0.096	ug/L	U	0.096	0.384
2/10/2003 11:15	#1	GC-Water	Phorate	0.048	ug/L	U	0.048	0.192
2/10/2003 11:15	#1	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
2/10/2003 11:15	#1	GC-Water	Simazine	0.048	ug/L	UJ	0.048	0.192
2/10/2003 11:15	#1	Metals-Water	Aluminum	23	ug/L	I	10	40
2/10/2003 11:15	#1	Metals-Water	Arsenic	3	ug/L	U	3	12
2/10/2003 11:15	#1	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
2/10/2003 11:15	#1	Metals-Water	Calcium	30.5	mg/L		0.05	0.2
2/10/2003 11:15	#1	Metals-Water	Chromium	2	ug/L	U	2	8
2/10/2003 11:15	#1	Metals-Water	Copper	2.5	ug/L	I	0.75	3
2/10/2003 11:15	#1	Metals-Water	Iron	166	ug/L		7	28
2/10/2003 11:15	#1	Metals-Water	Lead	0.12	ug/L	I	0.1	0.4
2/10/2003 11:15	#1	Metals-Water	Magnesium	14.9	mg/L		0.01	0.04
2/10/2003 11:15	#1	Metals-Water	Nickel	3.9	ug/L	I	2	8
2/10/2003 11:15	#1	Metals-Water	Selenium	1	ug/L	U	1	4
2/10/2003 11:15	#1	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
2/10/2003 11:15	#1	Metals-Water	Zinc	20	ug/L		4	16
2/10/2003 11:15	#1	Nutrients-Liquid	Ammonia-N	0.034	mg N/L		0.01	0.02
2/10/2003 11:15	#1	Nutrients-Liquid	NO2NO3-N	4.2	mg N/L		0.04	0.1
2/10/2003 11:15	#1	Nutrients-Liquid	N_KJEL_TOT	0.75	mg N/L	J	0.06	0.2
2/10/2003 11:15	#1	Nutrients-Liquid	O-Phosphate-P	0.29	mg P/L		0.032	0.08
2/10/2003 11:15	#1	Nutrients-Liquid	Total-P	0.35	mg P/L		0.015	0.04
2/10/2003 8:00	BLANK	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	1,2,4-Trichlorobenzene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	1,2-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	1,3,5-Trinitrobenzene	3.8	ug/L	U	3.8	15
2/10/2003 8:00	BLANK	BNA-Water	1,3-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.7
2/10/2003 8:00	BLANK	BNA-Water	1,4-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	1,4-Naphthoquinone	19	ug/L	UJ	19	77
2/10/2003 8:00	BLANK	BNA-Water	1-Naphthylamine	9.6	ug/L	U	9.6	38
2/10/2003 8:00	BLANK	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	U	1.9	7.7
2/10/2003 8:00	BLANK	BNA-Water	2,4,5-Trichlorophenol	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	2,4,6-Trichlorophenol	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	2,4-Dichlorophenol	0.96	ug/L	U	0.96	3.8

2/10/2003 8:00	BLANK	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
2/10/2003 8:00	BLANK	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	58
2/10/2003 8:00	BLANK	BNA-Water	2,4-Dinitrotoluene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	2,6-Dichlorophenol	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	2,6-Dinitrotoluene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	2-Acetylaminofluorene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	2-Chloronaphthalene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	2-Chlorophenol	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
2/10/2003 8:00	BLANK	BNA-Water	2-Methylnaphthalene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	2-Naphthylamine	9.6	ug/L	U	9.6	38
2/10/2003 8:00	BLANK	BNA-Water	2-Nitroaniline	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	2-Nitrophenol	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	2-Picoline	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
2/10/2003 8:00	BLANK	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	UJ	19	77
2/10/2003 8:00	BLANK	BNA-Water	3-Methylcholanthrene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	3-Nitroaniline	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.8
2/10/2003 8:00	BLANK	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.8
2/10/2003 8:00	BLANK	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.8
2/10/2003 8:00	BLANK	BNA-Water	4-Aminobiphenyl	3.8	ug/L	UJ	3.8	15
2/10/2003 8:00	BLANK	BNA-Water	4-Bromophenyl phenyl ether	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	4-Chloro-3-methylphenol	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	4-Chloroaniline	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.7
2/10/2003 8:00	BLANK	BNA-Water	4-Nitroaniline	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	4-Nitrophenol	14	ug/L	U	14	58
2/10/2003 8:00	BLANK	BNA-Water	5-Nitro-o-toluidine	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Acenaphthene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Acenaphthylene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Acetophenone	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.8
2/10/2003 8:00	BLANK	BNA-Water	Aniline	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Anthracene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.96	ug/L	U	0.96	3.8

2/10/2003 8:00	BLANK	BNA-Water	Benzidine	96	ug/L	U	96	380
2/10/2003 8:00	BLANK	BNA-Water	Benzo(a)anthracene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Benzo(a)pyrene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Benzo(b)fluoranthene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Benzo(g,h,i)perylene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Benzo(k)fluoranthene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Benzyl alcohol	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Bis(2-chloroethoxy)methane	0.96	ug/L	UJ	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Bis(2-chloroethyl)ether	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
2/10/2003 8:00	BLANK	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	58
2/10/2003 8:00	BLANK	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
2/10/2003 8:00	BLANK	BNA-Water	Chrysene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
2/10/2003 8:00	BLANK	BNA-Water	Di-n-octyl phthalate	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Dibenzo(a,h)anthracene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Dibenzofuran	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.8
2/10/2003 8:00	BLANK	BNA-Water	Diethyl phthalate	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
2/10/2003 8:00	BLANK	BNA-Water	Dimethylaminoazobenzene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Dinoseb	3.8	ug/L	U	3.8	15
2/10/2003 8:00	BLANK	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	12
2/10/2003 8:00	BLANK	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
2/10/2003 8:00	BLANK	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
2/10/2003 8:00	BLANK	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.8
2/10/2003 8:00	BLANK	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.8
2/10/2003 8:00	BLANK	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
2/10/2003 8:00	BLANK	BNA-Water	Ethyl methanesulfonate	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Fluoranthene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Fluorene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.8
2/10/2003 8:00	BLANK	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.8
2/10/2003 8:00	BLANK	BNA-Water	Hexachlorobenzene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
2/10/2003 8:00	BLANK	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
2/10/2003 8:00	BLANK	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12

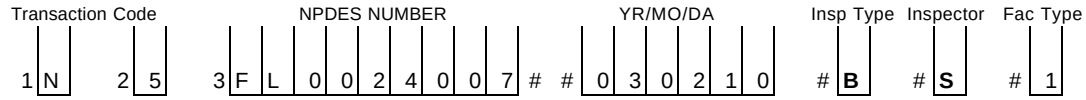
2/10/2003 8:00	BLANK	BNA-Water	Hexachloropropene	1.9	ug/L	U	1.9	7.7
2/10/2003 8:00	BLANK	BNA-Water	Indeno(1,2,3-cd)pyrene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Isophorone	0.96	ug/L	UJ	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Isosafrole	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Methapyrilene	3.8	ug/L	UJ	3.8	15
2/10/2003 8:00	BLANK	BNA-Water	Methyl methanesulfonate	0.96	ug/L	UJ	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	N-Nitrosodi-n-butylamine	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.7
2/10/2003 8:00	BLANK	BNA-Water	N-Nitrosodiethylamine	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.7
2/10/2003 8:00	BLANK	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
2/10/2003 8:00	BLANK	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.7
2/10/2003 8:00	BLANK	BNA-Water	N-Nitrosomorpholine	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	N-Nitrosopiperidine	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.7
2/10/2003 8:00	BLANK	BNA-Water	Naphthalene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.7
2/10/2003 8:00	BLANK	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	77
2/10/2003 8:00	BLANK	BNA-Water	Pentachlorobenzene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Pentachloroethane	48	ug/L	U	48	190
2/10/2003 8:00	BLANK	BNA-Water	Pentachloronitrobenzene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
2/10/2003 8:00	BLANK	BNA-Water	Phenacetin	3.8	ug/L	U	3.8	12
2/10/2003 8:00	BLANK	BNA-Water	Phenanthrene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Phenol	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Pyrene	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	Pyridine	3.8	ug/L	U	3.8	15
2/10/2003 8:00	BLANK	BNA-Water	Safrole	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.8
2/10/2003 8:00	BLANK	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.8
2/10/2003 8:00	BLANK	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.8
2/10/2003 8:00	BLANK	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.8
2/10/2003 8:00	BLANK	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.7
2/10/2003 8:00	BLANK	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.7
2/10/2003 8:00	BLANK	BNA-Water	o-Toluidine	0.96	ug/L	U	0.96	3.8
2/10/2003 8:00	BLANK	GC-Water	Alachlor	0.57	ug/L	UJ	0.57	2.28
2/10/2003 8:00	BLANK	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.192

2/10/2003 8:00	BLANK	GC-Water	Atrazine	0.048	ug/L	U	0.048	0.192
2/10/2003 8:00	BLANK	GC-Water	Azinphos Methyl	0.048	ug/L	U	0.048	0.192
2/10/2003 8:00	BLANK	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
2/10/2003 8:00	BLANK	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
2/10/2003 8:00	BLANK	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.192
2/10/2003 8:00	BLANK	GC-Water	Chlorpyrifos Methyl	0.095	ug/L	U	0.095	0.38
2/10/2003 8:00	BLANK	GC-Water	Diazinon	0.048	ug/L	U	0.048	0.192
2/10/2003 8:00	BLANK	GC-Water	Ethion	0.048	ug/L	U	0.048	0.192
2/10/2003 8:00	BLANK	GC-Water	Ethoprop	0.095	ug/L	U	0.095	0.38
2/10/2003 8:00	BLANK	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
2/10/2003 8:00	BLANK	GC-Water	Fonofos	0.095	ug/L	U	0.095	0.38
2/10/2003 8:00	BLANK	GC-Water	Hexazinone	0.095	ug/L	U	0.095	0.38
2/10/2003 8:00	BLANK	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
2/10/2003 8:00	BLANK	GC-Water	Metalaxyl	0.24	ug/L	UJ	0.24	0.96
2/10/2003 8:00	BLANK	GC-Water	Metolachlor	0.48	ug/L	UJ	0.48	1.92
2/10/2003 8:00	BLANK	GC-Water	Metribuzin	0.095	ug/L	U	0.095	0.38
2/10/2003 8:00	BLANK	GC-Water	Mevinphos	0.19	ug/L	UJ	0.19	0.76
2/10/2003 8:00	BLANK	GC-Water	Naled	0.76	ug/L	U	0.76	3.04
2/10/2003 8:00	BLANK	GC-Water	Norflurazon	0.095	ug/L	U	0.095	0.38
2/10/2003 8:00	BLANK	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
2/10/2003 8:00	BLANK	GC-Water	Parathion Methyl	0.095	ug/L	U	0.095	0.38
2/10/2003 8:00	BLANK	GC-Water	Phorate	0.048	ug/L	U	0.048	0.192
2/10/2003 8:00	BLANK	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
2/10/2003 8:00	BLANK	GC-Water	Simazine	0.048	ug/L	UJ	0.048	0.192
2/10/2003 8:00	BLANK	Metals-Water	Aluminum	13	ug/L	I	10	40
2/10/2003 8:00	BLANK	Metals-Water	Arsenic	3	ug/L	U	3	12
2/10/2003 8:00	BLANK	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
2/10/2003 8:00	BLANK	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
2/10/2003 8:00	BLANK	Metals-Water	Chromium	2	ug/L	U	2	8
2/10/2003 8:00	BLANK	Metals-Water	Copper	1.3	ug/L	I	0.75	3
2/10/2003 8:00	BLANK	Metals-Water	Iron	27	ug/L	I	7	28
2/10/2003 8:00	BLANK	Metals-Water	Lead	0.1	ug/L	U	0.1	0.4
2/10/2003 8:00	BLANK	Metals-Water	Magnesium	0.01	mg/L	U	0.01	0.04
2/10/2003 8:00	BLANK	Metals-Water	Nickel	3.3	ug/L	I	2	8
2/10/2003 8:00	BLANK	Metals-Water	Selenium	1	ug/L	U	1	4
2/10/2003 8:00	BLANK	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
2/10/2003 8:00	BLANK	Metals-Water	Zinc	4	ug/L	U	4	16

2/10/2003 8:00	BLANK	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
2/10/2003 8:00	BLANK	Nutrients-Liquid	NO2NO3-N	0.019	mg N/L		0.004	0.01
2/10/2003 8:00	BLANK	Nutrients-Liquid	N_KJEL_TOT	0.06	mg N/L	U	0.06	0.2
2/10/2003 8:00	BLANK	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
2/10/2003 8:00	BLANK	Nutrients-Liquid	Total-P	0.015	mg P/L	U	0.015	0.04

The Bioassay of Pensacola Beach WWTP effluent sampled on February 10, 2003, NPDES #FL0024007.

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



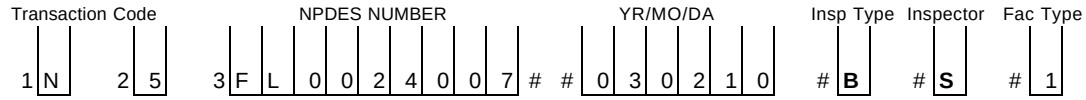
Remarks



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The Priority Pollutants Analysis for Bioassay of Pensacola Beach effluent sampled on February 10, 2003, NPDES #FL0024007.

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



Remarks



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