

Bioassays of

South Florida Water Management District
Stormwater Treatment Area Everglades STA 1W

Palm Beach, Palm Beach County, Florida

NPDES #FL0177962

Sampled 7/14/03

December 2003

Biology Section
Bureau of Laboratories
Division of Resource Assessment & Management

Comprehensive Quality Assurance Plan #870346G

South Florida Water Management District Stormwater Treatment Area Everglades STA 1W, Palm Beach, Palm Beach County, Florida, NPDES #FL0177962, samples were collected on July 14, 2003.

Introduction

This Stormwater Treatment Area (STA)/wetland treatment system has a design flow of 3250 cubic feet/sec (CFS). The facility is a flow-through marsh system utilizing natural biological processes to remove excess phosphorus from agricultural non-point source stormwater runoff entering the system. It discharges an average volume of 142,853 acre-feet per year. Herbicides are added to the treatment system to maintain desirable vegetation growth within each treatment cell. Effluent from the treatment system is discharged to the Everglades Protection Area, Arthur R. Marshall Loxahatchee National Wildlife Refuge (The Refuge). The Refuge waters are classified both as Class III fresh waters and Outstanding Florida Waters (OFW) (facility information provided by, Inger Hansen, FDEP Southeast District, West Palm Beach).

Methods

Samples were collected by Terry Davis 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_01 and TA07_02. All internal DEP SOP's are available on the web at:
http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp.

Toxicity Test Results

Tests were performed on July 15 to July 19, 2003.
Ceriodaphnia dubia 96-hr acute screening bioassay – Not Toxic
Cyprinella leedsi 96-hr acute screening bioassay – Not Toxic

See Table 1 for bioassay bench sheets.

Algal Growth Potential

The effluent AGP was less than the method detection limit (0.100 mg dry wt./L) for the test species, *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. The predicted AGP was 1.4 mg dry wt/L (Table 3). The difference between actual and predicted AGP values can sometimes be used as evidence of algal growth inhibition; however, for values below the problem threshold, this tool should be used with caution, as the difference may be attributable to variability in the method rather than actual algal growth inhibition.

Chemistry Results

Total residual chlorine and total ammonia were not detected in the bioassay sample in the laboratory.

See Table 2 for Class III freshwater criteria and chemical results of analyses performed on effluent and influent samples.

See Table 4 for a complete list of chemical analyses performed.

Conclusion

The effluent sample collected from this facility on July 14, 2003, did not show acute toxicity to either test species during the 96-hour bioassay tests. The AGP result was below the method detection limit. The AGP value was more than an order of magnitude below the predicted AGP value, but for AGP values below the problem threshold of 5.0 mg dry wt/L, one cannot be certain that this represents actual algal growth inhibition.

Table 1. Data recorded during the 96-hour acute screening bioassays of a sample of effluent from the Everglades STA 1W Stormwater Treatment Area, near the S5A Pump Station, Palm Beach, Palm Beach County, Florida, NPDES# FL0177962 performed from 15 to 19 July 2003.

Facility: Everglades STA 1W Stormwater Treatment Area		**NPDES #:**	**FL0177962**	Facility Type:	Stormwater	**Analysts:**	Jacquelyn Brynda
Location: South of SR80, near Pump Station S5A		Contact/District:	Terry Davis / Southeast		Treatment Area		Joshua Ayres
County: Palm Beach		Test type:	static acute screen				James Daniels
Sample Collection Date: 7/14/2003	Time: 1445	# tests:	2	Receiving Water:	Everglades Protection Area:		Marshall Faircloth
Test Beginning Date: 7/15/2003	Time: 1400	Chlorination Type:	unchlorinated		Arthur G. Marshall Loxahatchee National Wildlife Refuge		Christa Pierini
Test Ending Date: 7/19/2003	Time: 1330	FDEP SOP#:	TA07_01 / 02		**Page 1 of 2**	**Reviewer:**	Rob Buda

Organism: ***Ceriodaphnia dubia*** (water flea) Life stage: <24 hours Chamber size: 30 mL [A] Feeding: YCT/Algae Food Batch #: YCT #2 Algae #15

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature (°C)			Diss. Oxygen (mg/L)			[B] Conductivity	
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	0/20	5	5	5	8.1	-	8.3	24.2	-	23.6	7.2	-	7.8	180	170
Control B	0/20	5	5	5	-	-	8.3	-	-	23.5	-	-	7.8	-	175
Control C	0/20	5	5	5	-	-	8.3	-	-	23.5	-	-	7.9	-	175
Control D	0/20	5	5	5	-	-	8.3	-	-	23.6	-	-	7.9	-	175
100% A	20/0	5	5	5	7.8	-	8.9	24.5	-	23.5	7.5	-	7.9	1130	1360
100% B	20/0	5	5	5	-	-	8.9	-	-	23.5	-	-	7.9	-	1370
100% C	20/0	5	5	5	-	-	8.9	-	-	23.6	-	-	7.8	-	1260
100% D	20/0	5	5	5	-	-	8.9	-	-	23.6	-	-	7.9	-	1350

[A] Organisms fed prior to testing.

Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 24.0-25.0°C.
Incubator #3 temperature range for the test period was 24.5-25.5°C.
Light Intensity during the test was 50-100 foot candles.
Photoperiod during the test was 16 hours of light : 8 hours of dark.

[B] Conductivity value is uncorrected µmhos/cm.

AFTER RENEWAL

Organism: ***Ceriodaphnia dubia*** (water flea) Life stage: <24 hours Chamber size: 30 mL [A] Feeding: YCT/Algae Food Batch #: YCT #2 Algae #15

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature (°C)			Diss. Oxygen (mg/L)			[D] Conductivity	
Concentrations	Volume(mL)	48 hr	72 hr	96 hr	48 hour	72 hour	96 hour	48 hour	72 hour	96 hour	48 hour	72 hour	96 hour	48 hour	96 hour
Control A	0/20	5	5	5	8.3		8.2	23.7		23.9	8.4		8.7	180	260
Control B	0/20	5	5	5			8.2			23.9			8.4		240
Control C	0/20	5	5	5			8.2			24.0			8.0		230
Control D	0/20	5	5	5			8.2			24.0			8.0		235
100% A	20/0	5	5	5	7.9		8.8	24.0		24.0	8.1		9.1	1160	1220
100% B	20/0	5	5	5			8.8			24.1			9.0		1250
100 % C	20/0	5	5	5			8.8			23.7			8.8		1340
100% D	20/0	5	5	5			8.8			23.4			8.8		1400

[A] Organisms fed prior to renewal.

LIMS	
Job number:	TLH-2003-07-15-10
sample number:	688169

Data Transcription Verification
date: 11/04/03
by: Cathy Oaks and Brad Richardson

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	0.08	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water (water flea):	<0.017	<0.017
Control water (fish):	<0.017	<0.017
100% Sample:	<0.017	<0.017

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water (water flea):	83	80
Control water (fish):	145	138
100% Sample:	314	362

Mortality	Percent
Control water (water flea):	0%
100% (water flea):	0%
Control water (fish):	0%
100 % (fish):	0%

Table 1. concluded Data recorded during the 96-hour acute screening bioassays of a sample of effluent from the Everglades STA 1W Stormwater Treatment Area, Near the S5A Pump Station, Palm Beach, Palm Beach County, Florida, NPDES# FL0177962 performed from 15 to 19 July 2003.

Facility: Everglades STA 1W Stormwater Treatment Area		**NPDES #:**	**FL0177962**	Facility Type:	Stormwater	**Analysts:**	Jacquelyn Brynda
Location: South of SR80, near Pump Station S5A		Contact/District:	Terry Davis / Southeast		Treatment Area		Joshua Ayres
County: Palm Beach		Test type:	static acute screen				James Daniels
Sample Collection Date: 7/14/2003	Time: 1445	# tests:	2	Receiving Water:	Everglades Protection Area:		Marshall Faircloth
Test Beginning Date: 7/15/2003	Time: 1400	Chlorination Type:	unchlorinated		Arthur G. Marshall Loxahatchee National Wildlife Refuge		Christa Pierini
Test Ending Date: 7/19/2003	Time: 1330	FDEP SOP#:	TA07_01 / 02		**Page 2 of 2**	**Reviewer:**	Rob Buda

Organism: ***Cyprinella leedsi*** (bannerfin shiner) Life stage: 13 days Chamber size: 1 L [A] Feeding: Artemia Food Batch #: 0194025G

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature (°C)			Diss. Oxygen (mg/L)			[B] Conductivity	
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	7.9	7.9	8.5	24.8	25.1	24.6	7.5	7.4	7.4	320	260
Control B	0/500	5	5	5	7.9	8.0	8.5	24.7	25.0	24.4	7.4	7.3	7.4	270	270
Control C	0/500	5	5	5	7.9	8.2	8.5	24.7	24.8	24.6	7.4	7.4	7.2	275	275
Control D	0/500	5	5	5	7.9	8.2	8.5	24.7	25.1	24.5	7.3	7.4	7.3	270	270
100% A	0/500	5	5	5	7.8	8.4	8.6	24.5	24.7	24.4	7.4	7.2	7.2	1140	1180
100% B	0/500	5	5	5	7.8	8.3	8.6	24.6	24.8	24.5	7.4	7.4	7.3	1180	1210
100% C	0/500	5	5	5	7.8	8.3	8.6	24.6	25.0	24.7	7.4	7.1	7.1	1190	1215
100% D	0/500	5	5	4	7.8	8.3	8.6	24.6	25.2	24.7	7.4	6.9	7.1	1190	1205

[A] Organisms fed prior to testing.

Temperatures of room and test incubator were continuously recorded on a strip chart recorder.

Room Temperature range for the test period was 24.0-25.0°C.

Incubator #3 temperature range for the test period was 24.5-25.5°C.

Light Intensity during the test was 50-100 foot candles.

Photoperiod during the test was 16 hours of light : 8 hours of dark.

[B] Conductivity value is uncorrected µmhos/cm.

AFTER RENEWAL

Organism: ***Cyprinella leedsi*** (bannerfin shiner) Life stage: 13 days Chamber size: 1 L [A] Feeding: Artemia Food Batch #: 0194025G

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature (°C)			Diss. Oxygen (mg/L)			[D] Conductivity	
Concentrations	Volume(mL)	48 hr	72 hr	96 hr	48 hour	72 hour	96 hour	48 hour	72 hour	96 hour	48 hour	72 hour	96 hour	48 hour	96 hour
Control A	0/500	5	5	5	7.9	8.2	8.2	24.5	24.0	24.1	7.5	7.3	9.5	265	280
Control B	0/500	5	5	5	7.9	8.2	8.1	24.5	23.5	24.9	7.7	7.6	9.1	270	290
Control C	0/500	5	5	5	7.9	8.2	8.1	24.4	23.5	24.9	7.7	7.5	9.0	270	290
Control D	0/500	5	5	5	7.9	8.2	8.2	24.4	23.9	24.3	7.7	7.4	9.0	270	280
100% A	0/500	5	5	5	7.9	8.3	8.4	24.4	24.1	24.2	7.0	7.0	9.3	1160	1225
100% B	0/500	5	5	5	7.9	8.3	8.4	24.4	23.6	24.9	6.6	6.9	9.2	1200	1250
100 % C	0/500	5	5	5	7.9	8.3	8.4	24.4	24.0	24.8	6.6	7.0	9.2	1210	1260
100% D	0/500	4	4	4	7.9	8.3	8.4	24.4	23.6	24.2	6.8	6.9	9.1	1210	1260

[A] Organisms fed prior to renewal.

LIMS	
Job number:	TLH-2003-07-15-10
sample number:	688169

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Control water (water flea):	<0.017	<0.017
Control water (fish):	<0.017	<0.017
100% Sample:	<0.017	<0.017

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water (water flea):	83	80
Control water (fish):	145	138
100% Sample:	314	362

Mortality	Percent
Control water (water flea):	0%
100% (water flea):	0%
Control water (fish):	0%
100 % (fish):	5%

Table 2. Effluent limits, Class III Criteria and chemical results

Everglades STA-1W	Class III Criteria	Effluent
Organic Constituents (µg/L)		
Ametryn	-	0.07 I
Atrazine	-	0.13 I
Metals (µg/L unless otherwise noted)		
Aluminum	-	10 U
Arsenic	≤ 50	8 U
Cadmium	≤ 3.2 b	0.025 U
Calcium (mg/L)	-	95.1
Chromium-III	≤ 251.4 b	2 U
Copper	≤ 28.5 b	1.3 I
Iron	≤ 1000	22 I
Lead	≤ 16.8 b	0.05 U
Magnesium (mg/L)	-	32.1
Nickel	≤ 157.7 b	2 U
Selenium	≤ 5	2.4 U
Silver	≤ 0.07	0.02 U
Zinc	≤ 362.8 b	5 U
Nutrients (mg/L)		
Ammonia	-	0.033
Nitrate+nitrite	-	0.004 I
Total Kjeldahl Nitrogen	-	2.6
Ortho-phosphate	-	0.008 I
Total Phosphorus	-	0.047
Unionized Ammonia	≤ 0.02	≤ 0.02
General Physical and Chemical Parameters		
Oil and Grease (mg/L)	< 5.0	0.55 U
Chlorophyll-a (ug/L)	-	6.8
Hardness (mg/L)	-	369.7 c

c - calculated based on chemistry results.

b - Value is calculated based on hardness

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

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

Table 3. Measured and predicted algal growth potential (AGP) for total soluble inorganic nitrogen (TSIN) limitation

Location	AGP (measured)	Predicted AGP (TSIN) ± 20%	Inorganic N:P ratio
Effluent (mg dry wt/L)	0.1 U	1.4 ± 0.3	4.6

Table 4. Chemical Analyses performed on the effluent from the Everglades STA 1W Stormwater Treatment System, sampled on July 14, 2003.

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
7/14/2003 14:45	51-STA-1-Effluent	Bio-AGP/LimNut	Algal Growth Potential	0.1	mg DryWt/L	U	0.1	0.3
7/14/2003 14:45	51-STA-1-Effluent	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	6.8	ug/L		0.96	2.9
7/14/2003 14:45	51-STA-1-Effluent	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0	ug/L		0.96	2.9
7/14/2003 14:45	51-STA-1-Effluent	Bio-Toxicology	Bioassay-Acute-Screen-FW-C.dubia, LC50	100	LC50	L		
7/14/2003 14:45	51-STA-1-Effluent	Bio-Toxicology	Bioassay-Acute-Screen-FW-Fish, LC50	100	LC50	L		
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	1,2,4-Trichlorobenzene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	1,2-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	1,3,5-Trinitrobenzene	3.9	ug/L	U	3.9	16
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	1,3-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	1,4-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	1,4-Naphthoquinone	19	ug/L	UJ	19	78
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	1-Naphthylamine	9.7	ug/L	U	9.7	39
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	UJ	1.9	7.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	2,4,5-Trichlorophenol	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	2,4,6-Trichlorophenol	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	2,4-Dichlorophenol	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	2,4-Dimethylphenol	49	ug/L	U	49	190
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	58
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	2,4-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	2,6-Dichlorophenol	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	2,6-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	2-Acetylaminofluorene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	2-Chloronaphthalene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	2-Chlorophenol	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	2-Methylnaphthalene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	2-Naphthylamine	9.7	ug/L	U	9.7	39
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	2-Nitroaniline	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	2-Nitrophenol	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	2-Picoline	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	U	39	160
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	UJ	19	78
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	3-Methylcholanthrene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	3-Nitroaniline	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	4-Aminobiphenyl	3.9	ug/L	U	3.9	16
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	4-Bromophenyl phenyl ether	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	4-Chloro-3-methylphenol	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	4-Chloroaniline	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	4-Nitroaniline	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	4-Nitrophenol	15	ug/L	U	15	58
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	5-Nitro-o-toluidine	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Acenaphthene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Acenaphthylene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Acetophenone	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Aldrin	1.5	ug/L	UJ	1.5	5.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Aniline	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Anthracene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Benzidine	97	ug/L	U	97	390
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Benzo(a)anthracene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Benzo(a)pyrene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Benzo(b)fluoranthene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Benzo(g,h,i)perylene	0.97	ug/L	U	0.97	3.9

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Benzo(k)fluoranthene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Benzyl alcohol	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Bis(2-chloroethoxy)methane	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Bis(2-chloroethyl)ether	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Bis(2-ethylhexyl)phthalate	50	ug/L	U	15	58
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	19
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Chrysene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	19
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Di-n-octyl phthalate	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Dibenzo(a,h)anthracene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Dibenzofuran	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Dieldrin	1.5	ug/L	UJ	1.5	5.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Diethyl phthalate	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	190
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Dimethylaminoazobenzene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Dinoseb	3.9	ug/L	U	3.9	16
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	12
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Endrin	1.5	ug/L	UJ	1.5	5.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Endrin aldehyde	3.9	ug/L	U	3.9	16
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Ethyl methanesulfonate	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Fluoranthene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Fluorene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Hexachlorobenzene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Hexachlorobutadiene	2.9	ug/L	UJ	2.9	12
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	UJ	2.9	12
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Hexachloropropene	1.9	ug/L	UJ	1.9	7.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Indeno(1,2,3-cd)pyrene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Isophorone	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Isosafrole	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Methapyrilene	3.9	ug/L	UJ	3.9	16
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Methyl methanesulfonate	0.97	ug/L	UJ	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	N-Nitrosodi-n-butylamine	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	N-Nitrosodiethylamine	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	UJ	1.9	7.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	N-Nitrosomorpholine	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	N-Nitrosopiperidine	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Naphthalene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	78
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Pentachlorobenzene	0.97	ug/L	UJ	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Pentachloroethane	49	ug/L	U	49	190
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Pentachloronitrobenzene	0.97	ug/L	UJ	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Phenacetin	3.9	ug/L	U	3.9	12
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Phenanthrene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Phenol	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Pyrene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Pyridine	3.9	ug/L	U	3.9	16
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	Safrole	0.97	ug/L	U	0.97	3.9

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.8
7/14/2003 14:45	51-STA-1-Effluent	BNA-Water	o-Toluidine	0.97	ug/L	U	0.97	3.9
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Alachlor	0.59	ug/L	U	0.59	2.36
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Ametryn	0.07	ug/L	I	0.05	0.2
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Atrazine	0.13	ug/L	I	0.05	0.2
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Azinphos Methyl	0.05	ug/L	U	0.05	0.2
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Butylate	0.2	ug/L	U	0.2	0.8
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Chlorpyrifos Ethyl	0.05	ug/L	U	0.05	0.2
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Chlorpyrifos Methyl	0.099	ug/L	U	0.099	0.396
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Diazinon	0.05	ug/L	U	0.05	0.2
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Ethion	0.05	ug/L	U	0.05	0.2
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Ethoprop	0.099	ug/L	U	0.099	0.396
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Fonofos	0.099	ug/L	U	0.099	0.396
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Hexazinone	0.099	ug/L	U	0.099	0.396
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Metalaxyl	0.25	ug/L	U	0.25	1
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Metolachlor	0.5	ug/L	U	0.5	2
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Metribuzin	0.099	ug/L	U	0.099	0.396
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Mevinphos	0.2	ug/L	U	0.2	0.8
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Naled	0.79	ug/L	U	0.79	3.16
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Norflurazon	0.099	ug/L	U	0.099	0.396
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Parathion Methyl	0.099	ug/L	U	0.099	0.396
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Phorate	0.05	ug/L	U	0.05	0.2
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
7/14/2003 14:45	51-STA-1-Effluent	GC-Water	Simazine	0.05	ug/L	U	0.05	0.2
7/14/2003 14:45	51-STA-1-Effluent	Metals-Water	Aluminum	10	ug/L	U	10	40
7/14/2003 14:45	51-STA-1-Effluent	Metals-Water	Arsenic	8	ug/L	U	8	32
7/14/2003 14:45	51-STA-1-Effluent	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
7/14/2003 14:45	51-STA-1-Effluent	Metals-Water	Calcium	95.1	mg/L		0.05	0.3
7/14/2003 14:45	51-STA-1-Effluent	Metals-Water	Chromium	2	ug/L	U	2	8
7/14/2003 14:45	51-STA-1-Effluent	Metals-Water	Copper	1.3	ug/L	I	1.2	4.8
7/14/2003 14:45	51-STA-1-Effluent	Metals-Water	Iron	22	ug/L	I	10	40
7/14/2003 14:45	51-STA-1-Effluent	Metals-Water	Lead	0.05	ug/L	U	0.05	0.2
7/14/2003 14:45	51-STA-1-Effluent	Metals-Water	Magnesium	32.1	mg/L		0.01	0.04
7/14/2003 14:45	51-STA-1-Effluent	Metals-Water	Nickel	2	ug/L	U	2	8
7/14/2003 14:45	51-STA-1-Effluent	Metals-Water	Selenium	2.4	ug/L	U	1	4
7/14/2003 14:45	51-STA-1-Effluent	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
7/14/2003 14:45	51-STA-1-Effluent	Metals-Water	Zinc	5	ug/L	U	2	8
7/14/2003 14:45	51-STA-1-Effluent	Nutrients-Liquid	Ammonia-N	0.033	mg N/L		0.01	0.02
7/14/2003 14:45	51-STA-1-Effluent	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	I	0.004	0.01
7/14/2003 14:45	51-STA-1-Effluent	Nutrients-Liquid	N_KJEL_TOT	2.6	mg N/L		0.06	0.2
7/14/2003 14:45	51-STA-1-Effluent	Nutrients-Liquid	O-Phosphate-P	0.008	mg P/L	I	0.004	0.01
7/14/2003 14:45	51-STA-1-Effluent	Nutrients-Liquid	Total-P	0.047	mg P/L		0.015	0.04
7/14/2003 14:45	51-STA-1-Effluent	Overflow	Oil and Grease	0.55	mg/L	U		
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	1,2,4-Trichlorobenzene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	1,2-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	1,3,5-Trinitrobenzene	3.9	ug/L	U	3.9	16
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	1,3-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	1,4-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	1,4-Naphthoquinone	19	ug/L	UJ	19	78

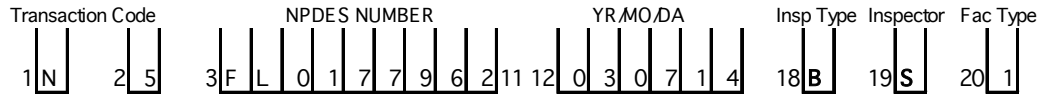
Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	1-Naphthylamine	9.7	ug/L	U	9.7	39
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	UJ	1.9	7.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	2,4,5-Trichlorophenol	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	2,4,6-Trichlorophenol	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	2,4-Dichlorophenol	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	2,4-Dimethylphenol	49	ug/L	U	49	190
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	58
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	2,4-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	2,6-Dichlorophenol	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	2,6-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	2-Acetylaminofluorene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	2-Chloronaphthalene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	2-Chlorophenol	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	2-Methylnaphthalene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	2-Naphthylamine	9.7	ug/L	U	9.7	39
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	2-Nitroaniline	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	2-Nitrophenol	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	2-Picoline	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	U	39	160
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	UJ	19	78
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	3-Methylcholanthrene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	3-Nitroaniline	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	4-Aminobiphenyl	3.9	ug/L	U	3.9	16
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	4-Bromophenyl phenyl ether	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	4-Chloro-3-methylphenol	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	4-Chloroaniline	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	4-Nitroaniline	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	4-Nitrophenol	15	ug/L	U	15	58
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	5-Nitro-o-toluidine	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Acenaphthene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Acenaphthylene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Acetophenone	1	ug/L	I	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Aldrin	1.5	ug/L	UJ	1.5	5.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Aniline	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Anthracene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Benzidine	97	ug/L	U	97	390
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Benzo(a)anthracene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Benzo(a)pyrene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Benzo(b)fluoranthene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Benzo(g,h,i)perylene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Benzo(k)fluoranthene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Benzyl alcohol	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Bis(2-chloroethoxy)methane	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Bis(2-chloroethyl)ether	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Bis(2-ethylhexyl)phthalate	88	ug/L	J	15	58
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	19
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Chrysene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	19
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Di-n-octyl phthalate	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Dibenzo(a,h)anthracene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Dibenzofuran	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Dieldrin	1.5	ug/L	UJ	1.5	5.8

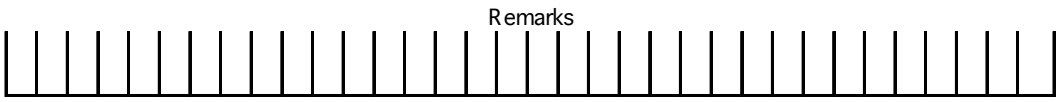
Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Diethyl phthalate	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	190
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Dimethylaminoazobenzene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Dinoseb	3.9	ug/L	U	3.9	16
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	12
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Endrin	1.5	ug/L	UJ	1.5	5.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Endrin aldehyde	3.9	ug/L	U	3.9	16
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Ethyl methanesulfonate	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Fluoranthene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Fluorene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Hexachlorobenzene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Hexachlorobutadiene	2.9	ug/L	UJ	2.9	12
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	UJ	2.9	12
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Hexachloropropene	1.9	ug/L	UJ	1.9	7.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Indeno(1,2,3-cd)pyrene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Isophorone	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Isosafrole	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Methapyrilene	3.9	ug/L	UJ	3.9	16
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Methyl methanesulfonate	0.97	ug/L	UJ	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	N-Nitrosodi-n-butylamine	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	N-Nitrosodiethylamine	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	UJ	1.9	7.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	N-Nitrosomorpholine	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	N-Nitrosopiperidine	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Naphthalene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	78
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Pentachlorobenzene	0.97	ug/L	UJ	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Pentachloroethane	49	ug/L	U	49	190
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Pentachloronitrobenzene	0.97	ug/L	UJ	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Phenacetin	3.9	ug/L	U	3.9	12
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Phenanthrene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Phenol	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Pyrene	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Pyridine	3.9	ug/L	U	3.9	16
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	Safrole	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.8
7/14/2003 14:30	51-STA-2-Blank	BNA-Water	o-Toluidine	0.97	ug/L	U	0.97	3.9
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Alachlor	0.58	ug/L	U	0.58	2.32
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.192
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Atrazine	0.048	ug/L	U	0.048	0.192
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Azinphos Methyl	0.048	ug/L	U	0.048	0.192
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.192
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Chlorpyrifos Methyl	0.096	ug/L	U	0.096	0.384
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Diazinon	0.048	ug/L	U	0.048	0.192
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Ethion	0.048	ug/L	U	0.048	0.192
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Ethoprop	0.096	ug/L	U	0.096	0.384
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Fonofos	0.096	ug/L	U	0.096	0.384
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Hexazinone	0.096	ug/L	U	0.096	0.384
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Metolachlor	0.48	ug/L	U	0.48	1.92
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Metribuzin	0.096	ug/L	U	0.096	0.384
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Naled	0.77	ug/L	U	0.77	3.08
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Norflurazon	0.096	ug/L	U	0.096	0.384
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Parathion Methyl	0.096	ug/L	U	0.096	0.384
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Phorate	0.048	ug/L	U	0.048	0.192
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
7/14/2003 14:30	51-STA-2-Blank	GC-Water	Simazine	0.048	ug/L	U	0.048	0.192
7/14/2003 14:30	51-STA-2-Blank	Metals-Water	Aluminum	10	ug/L	U	10	40
7/14/2003 14:30	51-STA-2-Blank	Metals-Water	Arsenic	8	ug/L	U	8	32
7/14/2003 14:30	51-STA-2-Blank	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
7/14/2003 14:30	51-STA-2-Blank	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.3
7/14/2003 14:30	51-STA-2-Blank	Metals-Water	Chromium	2	ug/L	U	2	8
7/14/2003 14:30	51-STA-2-Blank	Metals-Water	Copper	1.2	ug/L	U	1.2	4.8
7/14/2003 14:30	51-STA-2-Blank	Metals-Water	Iron	10	ug/L	U	10	40
7/14/2003 14:30	51-STA-2-Blank	Metals-Water	Lead	0.05	ug/L	U	0.05	0.2
7/14/2003 14:30	51-STA-2-Blank	Metals-Water	Magnesium	0.01	mg/L	U	0.01	0.04
7/14/2003 14:30	51-STA-2-Blank	Metals-Water	Nickel	2	ug/L	U	2	8
7/14/2003 14:30	51-STA-2-Blank	Metals-Water	Selenium	1	ug/L	U	1	4
7/14/2003 14:30	51-STA-2-Blank	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
7/14/2003 14:30	51-STA-2-Blank	Metals-Water	Zinc	5	ug/L	U	2	8
7/14/2003 14:30	51-STA-2-Blank	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
7/14/2003 14:30	51-STA-2-Blank	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
7/14/2003 14:30	51-STA-2-Blank	Nutrients-Liquid	N_KJEL_TOT	0.06	mg N/L	U	0.06	0.2
7/14/2003 14:30	51-STA-2-Blank	Nutrients-Liquid	O-Phosphate-P	0.005	mg P/L	I	0.004	0.01
7/14/2003 14:30	51-STA-2-Blank	Nutrients-Liquid	Total-P	0.015	mg P/L	U	0.015	0.04
7/14/2003 14:30	51-STA-2-Blank	Overflow	Oil and Grease	2.1	mg/L	IV		

The Bioassay of the Everglades STA 1W Stormwater Treatment Area effluent sampled on July 14, 2003, NPDES #FL0177962.

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





The Priority Pollutants Analysis for the Bioassay of the Everglades STA 1W Stormwater Treatment Area effluent sampled on July 14, 2003, NPDES #FL0177962.

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

