



Bioassays of  
**Kings Gate Club, Inc., Reverse Osmosis  
Water Treatment Plant**

Sarasota County  
NPDES #FL0188859  
Sampled December 12, 2005

March 2006

**Biology Section  
Bureau of Laboratories  
Division of Resource Assessment and Management**

Quality Manual No. 870346G  
NELAC Certification No. E31780

Kings Gate Club, Inc., Reverse Osmosis Water Treatment Plant, Castle Drive, Nokomis, Sarasota County, Florida, NPDES # FL0188859. Effluent samples for this facility were collected on December 12, 2005.

## Introduction

The Kings Gate Club, Inc., Reverse Osmosis Water Treatment Plant is a water treatment plant that provides potable water to the residents of Kings Gate Club Mobile Home Park. The facility has a design flow of 0.01 million gallons per day (MGD). The average annual daily flow (AADF) from November 2004 through October 2005 was 0.0112 MGD. Effluent (concentrate) is not treated before being discharged through a 5.08 cm (2 inch) PVC pipe to an onsite stormwater pond at a depth of 0.61 m (2 feet). Overflow from the pond discharges through 5 pipes into the Class III fresh waters of Salt Creek, thence into Shakett Creek thence into the Class III marine waters of Dona Bay. The discharge into Salt Creek is intermittent and rainfall dependent.

The facility is not under any Administrative or Consent Orders, and does not have any mixing zones. During the previous year, the facility had permit violations for annual average flow for four of seven months up until July 2005. Prior to 2004, the facility consistently exceeded the permit limit for gross alpha. Since 2004, the facility has been using the high-TDS analysis method for gross alpha and has been in compliance with this parameter. The facility has been working to correct its flow exceedances by addressing ongoing equipment problems (facility information provided by Lori Pillsbury of FDEP Southwest District).

## Methods

Samples were collected from the EFF-1 NPDES sampling point for Outfall D-001 by Lori Pillsbury (FDEP Southwest District) following DEP-SOP-001/01 FS 2400 Wastewater Sampling. All DEP SOP's are available on the web at: <http://www.floridadep.org/labs/qa/sops.htm>.

The 48-hour acute screen toxicity tests and algal growth potential test were performed following internal DEP SOP's TA07\_01, TA07\_02, and TA08\_01 through TA08\_09. All internal DEP SOP's are available on the web at: <http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp>. While the 48-hour acute screening toxicity test does not reflect the permit required conditions, the Department uses it to provide reasonable assurance that the facility does not adversely affect waters of the state.

Prior to test initiation, bioassay samples were aerated for 30 minutes at approximately 100 bubbles per minute, to decrease the dissolved oxygen concentration from 9.5 mg/L to 8.1 mg/L.

## Toxicity Test Results

Tests were performed December 13 - 15, 2005.

*Ceriodaphnia dubia* 48-hour acute screening bioassay – LC<sub>50</sub> > 100%, 0% mortality\* in 100% sample at 48 hours

*Cyprinella leedsii* 48-hour acute screening bioassay – LC<sub>50</sub> > 100%, 0% mortality\* in 100% sample at 48 hours

The bioassay sample was not acutely toxic to the test organisms.

See Appendix 1 for bioassay bench sheets.

\*NOTE: In a 48-hour acute screening test of 100% effluent, mortality of <20% provides reasonable assurance that the effluent meets the acute toxicity criterion of Florida's Surface

Water Quality Standards (Rule 62-302.500 (1)(a)4, F.A.C.). Mortality between 20-50% mortality indicates low to moderate levels of toxicity, and further action may be required. Mortality of >50% provides reasonable assurance that the effluent fails to meet the minimum requirement to discharge to waters of the state (Rule 62-4.244(3)(a), F.A.C.).

### **Algal Growth Potential**

The effluent Algal Growth Potential (AGP) was 27.3 mg dry wt/L of the freshwater unicellular green alga, *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum*. Raschke and Shultz (1987) found that AGP values above 5.0 mg dry weight/L represent a "problem" threshold for fresh receiving waters, implying nutrient enrichment. The analytical chemistry suggests that the effluent is nitrogen-limited. The predicted AGP based on the inorganic nitrogen concentration was 25.99 ( $\pm 20\%$ ) mg dry wt/L (Table 1; Miller et al. 1978).

See Table 1 for AGP results.

### **Chemistry Results**

Total residual chlorine and total ammonia were not detected in the bioassay sample in the laboratory. The total ammonia concentration in the sample collected and preserved for chemical analysis was 0.084 mg/L. Based on the pH, salinity, and temperature of the effluent as collected, the calculated unionized ammonia concentration was < 0.02 mg/L.

The pesticides atrazine and simazine were detected in the effluent. Copper and iron were detected in the effluent at levels that comply with Class III fresh water quality criteria. Aluminum, nickel, and zinc were detected between the laboratory method detection limits (MDL) and practical quantitation limits (PQL).

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

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

### **Conclusion**

The effluent sample collected from Outfall D-001 for this facility on December 12, 2005, was not acutely toxic to either test species during the acute screen 48-hour bioassays. The effluent AGP result exceeded the "problem" threshold for fresh receiving waters, suggesting nutrient enrichment may be an issue. Effluent water quality samples did not violate any permit conditions. Although the facility has not exceeded the maximum permitted flow limit since July 2005, the annual average daily flow (November 2004 – October 2005) exceeded the permitted limit.

### **Literature Cited**

- Miller, W. E., T. E. Maloney, and J. C. Greene. 1978. The *Selenastrum capricornutum* Printz algal assay bottle test. EPA-600/9-78-018. U. S. EPA, Cincinnati, Ohio. 126 p.
- Raschke, R. L. and D. A. Schultz. 1987. The use of the algal growth potential test for data assessment. J. Wat. Poll. Cont. Fed. 59(4): 222-227.

Table 1. Measured and predicted algal growth potential (AGP; mg dry wt/L) of the freshwater species *Pseudokirchneriella subcapitata* for total soluble nitrogen (TSIN) and total nitrogen (TN) limitation and ratios of nitrogen to phosphorus for samples collected from Kings Gate Club, Inc., Reverse Osmosis Wastewater Treatment Plant on December 12, 2005.

Location	AGP (measured)	Predicted AGP (TSIN) $\pm$ 20%	Predicted AGP (TN) $\pm$ 20%	Inorganic N:P ratio	Total N:P ratio
Effluent Samples	27.3	25.99 $\pm$ 5.198	45.6 $\pm$ 9.12	2.53	4

Table 2. Effluent limits, Class III Freshwater Criteria, and chemical data for samples collected from Kings Gate Club, Inc., Reverse Osmosis Water Treatment Plant on December 12, 2005.

Kings Gate Club, Inc., RO WTP NPDES# FL0188859	Class III Freshwater Stds	Effluent Limits	Effluent Samples
<b>Organic Constituents (µg/L)</b>			
Atrazine	-	-	0.82
Simazine	-	-	0.97
<b>Metals (µg/L unless otherwise noted)</b>			
Aluminum	-	-	16 I
Arsenic	≤ 50	-	4 U
Cadmium	≤ 3.4 b	-	0.05 U
Calcium (mg/L)	-	-	101 A
Chromium-III	≤ 268.2 b	-	1 U
Copper	≤ 30.5 b	-	19.7 A
Iron	≤ 1,000	-	98 A
Lead	≤ 18.6 b	-	0.075 U
Magnesium (mg/L)	-	-	43.5 A
Nickel	≤ 168.5 b	-	2.2 I
Selenium	≤ 5	-	0.5 U
Silver	≤ 0.07	-	0.025 U
Zinc	≤ 387.8 b	-	6.5 I
<b>Nutrients (mg/L)</b>			
Ortho-phosphate	-	-	0.27
Total Phosphorus	-	-	0.3
Ammonia	-	-	0.084
Unionized Ammonia	≤ 0.02	-	< 0.02 c
Nitrate+Nitrite	-	-	0.6
Total Kjeldahl Nitrogen	-	-	0.6
Organic Nitrogen	-	-	0.52 c
Total Nitrogen	-	-	1.2 c
<b>General Physical and Chemical Parameters</b>			
Alpha, Total (pCi/L)	≤ 15	≤ 15	3.1
Alpha-Counting Error (pCi/L)	-	-	1.3
Radium 226 (pCi/L)	-	-	2.1
Radium 226-Counting Error (pCi/L)	-	-	0.3
Radium 228 (pCi/L)	-	-	0.8 U
Radium 228-Counting Error (pCi/L)	-	-	0.5
Combined Radium 226+228 (pCi/L)	≤ 5	≤ 5	2.1 c
Dissolved Oxygen (mg/L)	≥ 5	≥ 4	11.9
pH (S.U.)	6.0-8.5	6.5-8.5	7.7
Conductivity (umhos/cm)	-	-	870
Temperature (C)	-	-	19.6
CBOD (mg/L)	-	-	0.86 AI
Chlorophyll a (µg/L)	-	-	1.4 U
Phaeophytin a (µg/L)	-	-	2.5U
TSS (mg/L)	-	-	4 U
Turbidity (NTU)	≤ 29 t	-	0.85
Flow (MGD)	-	≤ 0.010 a	0.0112 a
Hardness (mg/L)	-	-	431.3 c
Fluoride (mg/L)	≤ 10	≤ 5	0.85

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

a - Annual average

c - Calculated value

p - permitted sampling point for this limit is FLW-1

t - Shall not exceed 29 NTUs above background

A - Value reported is the mean of two or more determinations

I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

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

Appendix 1. Bench Sheets

FDEP Biology Section - Acute Screen Bioassay Bench Sheets

Facility: Kings Gate RO WTP Date: 12-12-05 Time: 0950  
 Address: Castle Drive Held Time Start: 12-12-05 Time: 0950  
 City: Nokomis County: Sarasota  
 Contact/District: Lon Pillsbury/SUD  
 NPDES Permit #: FL 0188859  
 LIMS Job #: 12-12-05-12-13-15 LIMS Sample #: 281230  
 LIMS Data Entry: 12-15-05 SR Data Entry Verification: 12-16-05 JHF

Comments:

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

Test Type: Screen  
 Static / Static Renewal / Flow-through  
 Test Duration: 48 06 Hours.  
 Light Intensity: 50 - 100 ft. candles.  
 Photoperiod: 16 hours light 8 hours dark.  
 Initial sample handling:  
 PH adjustment: yes (no) Initial pH: \_\_\_\_\_ NaOH \_\_\_\_\_ HCl \_\_\_\_\_ N \_\_\_\_\_ Drops ml. Final pH: \_\_\_\_\_  
 Aeration (yes) no Initial DO: 1.5 mg/L Final DO: 8.1 mg/L Duration: 30 minutes Rate: 100 bubbles/min  
 Salinity adjusted (Test 1): yes (no) Initial Salinity: \_\_\_\_\_ Final Salinity: \_\_\_\_\_ Salts: Hypersaline brine  
 Salinity adjusted (Test 2): yes (no) Initial Salinity: \_\_\_\_\_ Final Salinity: \_\_\_\_\_ Salts: Hypersaline brine  
 Dechlorination: yes (no) \_\_\_\_\_ mL of 0.025N Sodium Thiosulfate per liter of sample. Final TRC: \_\_\_\_\_  
 Sample Validation:

Temperature Range °C  
 Incubator # 3 Range: 23.7-25.8  
 Room B246: 24.7-26.2  
 Waterbath: N/A

Temperature: Shipped 56°C No Hand Delivered: Cooling (received °C - cold-ctd °C) Yes (No)  
 Holding Time: ≤36 Hours (no) No (Composite-end of collection; grab-when collected; 4 in 24 - time last sample collected)

Investigators' Signatures  
[Signature]  
[Signature]  
[Signature]  
 REVIEWER: [Signature]

Water Quality Parameters	20% DMW	Moderately Hard Water Well Wash	Salt Water ASW NSW Test 1	Salt Water ASW NSW Test 2	Other:	Original Sample	Method	Measured by	Verified by
Field Total Residual Cl <sub>2</sub> (mg/L)	N/A	N/A	N/A	N/A		net ml	res-ure-1		SR
Lab Total Residual Cl <sub>2</sub> (mg/L)	<0.03	<0.03				<0.03	HACH	SR	SR
Alkalinity (mg/L as CaCO <sub>3</sub> )	15.2	15.2				136	HACH	EW	SR
Hardness (mg/L as CaCO <sub>3</sub> )	18	15.7				408	HACH	SR	SR
Total Ammonia (mg/L as N)	<0.01	<0.01				40.07	DENVER	MF	SR
Salinity (ppt)	<1	<1				<1	YSI / Multiter	SR	SR



Appendix 1. Bench Sheets (continued)



FDEP Biology Section - Bioassay Survival Sheet

LIMS Sample #: 886730 Test #: 2 Test Started: Date 12-13-05 Time: 1430  
 Organism: C. leedsii SOP #: TA 07\_ 02 Test Ended: Date 12-15-05 Time: 1730  
 Organism Batch: 37-05 Diluent/ Batch: Well 12-12-05  
 Organism Age: 11 days Food: YCT P. subcapitata Artemia  
 Chamber Size: 1000 mL Batch: - - GSL536-90  
 Test Volume: 500 mL Feeding: Prior to test - Prior to renewal - Daily

Concentration	Replicate	Chamber #	Test Hour					
			0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
CTRL	A	B417	5	840	4			
	B	B218	5	5	5			
	C	B319	5	5	5			
	D	B420	5	5	5			
100%	A	B521	5	5	5			
	B	B622	5	5	5			
	C	B723	5	5	5			
	D	B824	5	5	5			

Organisms loaded by: JD Checked by: JD SP  
 Loading Verified by: MF Comments: ctrl A 24 hr - was ester AD.  
m = missing d = dead BR = before renewal AR = after renewal

**Test Results:**  
 % mortality in 100% sample: 0  
 LC<sub>50</sub>: >100 If Calculated: 95% CI \_\_\_\_\_ Method: \_\_\_\_\_  
**Screening Tests:**  
 Report LC50 as >100%, =100%, or <100%.  
Substitute highest test concentration used if other than 100% (example: Ocean outfall tested at 30% concentration).



Appendix 1. Bench Sheets (continued)

FDEP Biology Section - Bioassay Parameter Sheet

LIMS Sample #: 881230 Test #: 1 of 2  
 TEST SOP #: TA07\_01 Test Species: Ceriodaphnia dubia ~~Cyprinella leedsi~~ ~~Pimephales promelas~~  
Americamysis bahia ~~Menidia beryllina~~ Other: \_\_\_\_\_

Concentration	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A		B			
pH (S.U.)	7.7		8.0			
Temperature °C	25.7		24.3			
Dissolved Oxygen mg/L	7.3		8.0			
Conductivity $\mu$ mhos	183		204			
(initials) Measured by:	SR		JS			
(initials) Recorded by:	SR		JS			

Comments:

Concentration	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A		B			
pH (S.U.)	8.0		8.3			
Temperature °C	26.0		24.4			
Dissolved Oxygen mg/L	8.0		7.6			
Conductivity $\mu$ mhos	917		967			
(initials) Measured by:	SR		JS			
(initials) Recorded by:	SR		JS			

Comments:

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

Comments:

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

Comments:

Appendix 1. Bench Sheets (continued)

FDEP Biology Section - Bioassay Parameter Sheet

LIMS Sample #: 88230 Test #: 3 of 3

TEST SOP #: TA07\_02 Test Species: Ceriodaphnia dubia (Cyprinella loeferi) Pimephales promelas  
Americanysis bahia Menidia beryllina Other: \_\_\_\_\_

Concentration							
CPPL							
Replicate	A	B	C				
pH (S.U.)	8.0	8.0	8.3				
Temperature °C	25.6	24.8	25.2				
Dissolved Oxygen mg/L	7.2	7.3	7.6				
Conductivity $\mu$ mhos	312	338	312				
(initials) Measured by:	SP	SP	SP				
(initials) Recorded by:	SP	SP	SP				

Comments:

Concentration							
100%							
Replicate	A	B	C				
pH (S.U.)	8.1	8.1	8.2				
Temperature °C	25.9	24.7	24.9				
Dissolved Oxygen mg/L	8.0	7.1	7.5				
Conductivity $\mu$ mhos	925	970	915				
(initials) Measured by:	SP	SP	SP				
(initials) Recorded by:	SP	SP	SP				

Comments:

Concentration							
Replicate							
pH (S.U.)							
Temperature °C							
Dissolved Oxygen mg/L							
Conductivity $\mu$ mhos							
(initials) Measured by:							
(initials) Recorded by:							

Comments:

Concentration							
Replicate							
pH (S.U.)							
Temperature °C							
Dissolved Oxygen mg/L							
Conductivity $\mu$ mhos							
(initials) Measured by:							
(initials) Recorded by:							

Comments:

**Appendix 2. Chemical Analyses performed on the effluent from the Kings Gate Club, Inc., Reverse Osmosis Water Treatment Plant Outfall D-001, sampled on December 12, 2005.**

<b>Date Sampled</b>	<b>Field ID</b>	<b>Analysis</b>	<b>Component</b>	<b>Result</b>	<b>Units</b>	<b>Remark</b>	<b>MDL</b>	<b>PQL</b>
12/12/2005 9:50	OUTFALL D001	Bio-AGP/LimNut	Algal Growth Potential	27.3	mg DryWt/L		0.3	0.9
12/12/2005 9:50	OUTFALL D001	Bio-BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	0.86	mg/L	AI	0.2	2
12/12/2005 9:50	OUTFALL D001	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	1.4	ug/L	U	1.4	4.3
12/12/2005 9:50	OUTFALL D001	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	2.5	ug/L	U	2.5	7.5
12/12/2005 9:50	OUTFALL D001	Bio-Toxicology	Bioassay-Acute-Screen-FW-C.dubia, LC50	100	LC50	L		
12/12/2005 9:50	OUTFALL D001	Bio-Toxicology	Bioassay-Acute-Screen-FW-Fish, LC50	100	LC50	L		
12/12/2005 9:50	OUTFALL D001	BNA-Water	1,2,4-Trichlorobenzene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	1,2-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	1,3-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	1,4-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	2,4,6-Trichlorophenol	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	2,4-Dichlorophenol	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	2,4-Dimethylphenol	49	ug/L	U	49	190
12/12/2005 9:50	OUTFALL D001	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	58
12/12/2005 9:50	OUTFALL D001	BNA-Water	2,4-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	2,6-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	2-Chloronaphthalene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	2-Chlorophenol	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
12/12/2005 9:50	OUTFALL D001	BNA-Water	2-Nitrophenol	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	U	39	160
12/12/2005 9:50	OUTFALL D001	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.8
12/12/2005 9:50	OUTFALL D001	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.8
12/12/2005 9:50	OUTFALL D001	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.8
12/12/2005 9:50	OUTFALL D001	BNA-Water	4-Bromophenyl phenyl ether	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	4-Chloro-3-methylphenol	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.8
12/12/2005 9:50	OUTFALL D001	BNA-Water	4-Nitrophenol	15	ug/L	U	15	58
12/12/2005 9:50	OUTFALL D001	BNA-Water	Acenaphthene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	Acenaphthylene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.8
12/12/2005 9:50	OUTFALL D001	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.8
12/12/2005 9:50	OUTFALL D001	BNA-Water	Anthracene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	Benzidine	97	ug/L	U	97	390
12/12/2005 9:50	OUTFALL D001	BNA-Water	Benzo(a)anthracene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	Benzo(a)pyrene	0.97	ug/L	U	0.97	3.9

## Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
12/12/2005 9:50	OUTFALL D001	BNA-Water	Benzo(b)fluoranthene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	Benzo(g,h,i)perylene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	Benzo(k)fluoranthene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.8
12/12/2005 9:50	OUTFALL D001	BNA-Water	Bis(2-chloroethoxy)methane	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	Bis(2-chloroethyl)ether	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
12/12/2005 9:50	OUTFALL D001	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	58
12/12/2005 9:50	OUTFALL D001	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	19
12/12/2005 9:50	OUTFALL D001	BNA-Water	Chrysene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.8
12/12/2005 9:50	OUTFALL D001	BNA-Water	Dibenzo(a,h)anthracene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	5.8
12/12/2005 9:50	OUTFALL D001	BNA-Water	Diethyl phthalate	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	190
12/12/2005 9:50	OUTFALL D001	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	19
12/12/2005 9:50	OUTFALL D001	BNA-Water	Di-n-octyl phthalate	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
12/12/2005 9:50	OUTFALL D001	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
12/12/2005 9:50	OUTFALL D001	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.8
12/12/2005 9:50	OUTFALL D001	BNA-Water	Endrin	1.5	ug/L	UJ	1.5	5.8
12/12/2005 9:50	OUTFALL D001	BNA-Water	Endrin aldehyde	3.9	ug/L	U	3.9	16
12/12/2005 9:50	OUTFALL D001	BNA-Water	Fluoranthene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	Fluorene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.8
12/12/2005 9:50	OUTFALL D001	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.8
12/12/2005 9:50	OUTFALL D001	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.8
12/12/2005 9:50	OUTFALL D001	BNA-Water	Hexachlorobenzene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
12/12/2005 9:50	OUTFALL D001	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	UJ	2.9	12
12/12/2005 9:50	OUTFALL D001	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
12/12/2005 9:50	OUTFALL D001	BNA-Water	Indeno(1,2,3-cd)pyrene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	Isophorone	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	Naphthalene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.8
12/12/2005 9:50	OUTFALL D001	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.8
12/12/2005 9:50	OUTFALL D001	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.8

## Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
12/12/2005 9:50	OUTFALL D001	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
12/12/2005 9:50	OUTFALL D001	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
12/12/2005 9:50	OUTFALL D001	BNA-Water	Phenanthrene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	Phenol	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	BNA-Water	Pyrene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	1,2,4-Trichlorobenzene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	1,2-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	1,3-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	1,4-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	2,4,6-Trichlorophenol	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	2,4-Dichlorophenol	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	2,4-Dimethylphenol	49	ug/L	U	49	190
12/12/2005 10:00	FIELD BLANK	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	58
12/12/2005 10:00	FIELD BLANK	BNA-Water	2,4-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	2,6-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	2-Chloronaphthalene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	2-Chlorophenol	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
12/12/2005 10:00	FIELD BLANK	BNA-Water	2-Nitrophenol	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	U	39	160
12/12/2005 10:00	FIELD BLANK	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.8
12/12/2005 10:00	FIELD BLANK	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.8
12/12/2005 10:00	FIELD BLANK	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.8
12/12/2005 10:00	FIELD BLANK	BNA-Water	4-Bromophenyl phenyl ether	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	4-Chloro-3-methylphenol	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.8
12/12/2005 10:00	FIELD BLANK	BNA-Water	4-Nitrophenol	15	ug/L	U	15	58
12/12/2005 10:00	FIELD BLANK	BNA-Water	Acenaphthene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	Acenaphthylene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.8
12/12/2005 10:00	FIELD BLANK	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.8
12/12/2005 10:00	FIELD BLANK	BNA-Water	Anthracene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	Benzidine	97	ug/L	U	97	390
12/12/2005 10:00	FIELD BLANK	BNA-Water	Benzo(a)anthracene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	Benzo(a)pyrene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	Benzo(b)fluoranthene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	Benzo(g,h,i)perylene	0.97	ug/L	U	0.97	3.9

## Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
12/12/2005 10:00	FIELD BLANK	BNA-Water	Benzo(k)fluoranthene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.8
12/12/2005 10:00	FIELD BLANK	BNA-Water	Bis(2-chloroethoxy)methane	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	Bis(2-chloroethyl)ether	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
12/12/2005 10:00	FIELD BLANK	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	58
12/12/2005 10:00	FIELD BLANK	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	19
12/12/2005 10:00	FIELD BLANK	BNA-Water	Chrysene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.8
12/12/2005 10:00	FIELD BLANK	BNA-Water	Dibenzo(a,h)anthracene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	5.8
12/12/2005 10:00	FIELD BLANK	BNA-Water	Diethyl phthalate	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	190
12/12/2005 10:00	FIELD BLANK	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	19
12/12/2005 10:00	FIELD BLANK	BNA-Water	Di-n-octyl phthalate	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
12/12/2005 10:00	FIELD BLANK	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
12/12/2005 10:00	FIELD BLANK	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.8
12/12/2005 10:00	FIELD BLANK	BNA-Water	Endrin	1.5	ug/L	UJ	1.5	5.8
12/12/2005 10:00	FIELD BLANK	BNA-Water	Endrin aldehyde	3.9	ug/L	U	3.9	16
12/12/2005 10:00	FIELD BLANK	BNA-Water	Fluoranthene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	Fluorene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.8
12/12/2005 10:00	FIELD BLANK	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.8
12/12/2005 10:00	FIELD BLANK	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.8
12/12/2005 10:00	FIELD BLANK	BNA-Water	Hexachlorobenzene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
12/12/2005 10:00	FIELD BLANK	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	UJ	2.9	12
12/12/2005 10:00	FIELD BLANK	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
12/12/2005 10:00	FIELD BLANK	BNA-Water	Indeno(1,2,3-cd)pyrene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	Isophorone	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	Naphthalene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.8
12/12/2005 10:00	FIELD BLANK	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.8
12/12/2005 10:00	FIELD BLANK	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.8
12/12/2005 10:00	FIELD BLANK	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
12/12/2005 10:00	FIELD BLANK	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12

## Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
12/12/2005 10:00	FIELD BLANK	BNA-Water	Phenanthrene	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	Phenol	0.97	ug/L	U	0.97	3.9
12/12/2005 10:00	FIELD BLANK	BNA-Water	Pyrene	0.97	ug/L	U	0.97	3.9
12/12/2005 9:50	OUTFALL D001	GC-Water	Alachlor	0.6	ug/L	U	0.6	2.4
12/12/2005 9:50	OUTFALL D001	GC-Water	Ametryn	0.05	ug/L	U	0.05	0.2
12/12/2005 9:50	OUTFALL D001	GC-Water	Atrazine	0.82	ug/L		0.05	0.2
12/12/2005 9:50	OUTFALL D001	GC-Water	Azinphos Methyl	0.2	ug/L	U	0.2	0.8
12/12/2005 9:50	OUTFALL D001	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
12/12/2005 9:50	OUTFALL D001	GC-Water	Butylate	0.2	ug/L	U	0.2	0.8
12/12/2005 9:50	OUTFALL D001	GC-Water	Chlorpyrifos Ethyl	0.05	ug/L	U	0.05	0.2
12/12/2005 9:50	OUTFALL D001	GC-Water	Chlorpyrifos Methyl	0.1	ug/L	U	0.1	0.4
12/12/2005 9:50	OUTFALL D001	GC-Water	Diazinon	0.05	ug/L	U	0.05	0.2
12/12/2005 9:50	OUTFALL D001	GC-Water	Ethion	0.05	ug/L	U	0.05	0.2
12/12/2005 9:50	OUTFALL D001	GC-Water	Ethoprop	0.1	ug/L	U	0.1	0.4
12/12/2005 9:50	OUTFALL D001	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
12/12/2005 9:50	OUTFALL D001	GC-Water	Fonofos	0.1	ug/L	U	0.1	0.4
12/12/2005 9:50	OUTFALL D001	GC-Water	Hexazinone	0.1	ug/L	U	0.1	0.4
12/12/2005 9:50	OUTFALL D001	GC-Water	Malathion	0.15	ug/L	UJ	0.15	0.6
12/12/2005 9:50	OUTFALL D001	GC-Water	Metalaxyl	0.25	ug/L	U	0.25	1
12/12/2005 9:50	OUTFALL D001	GC-Water	Metolachlor	0.5	ug/L	U	0.5	2
12/12/2005 9:50	OUTFALL D001	GC-Water	Metribuzin	0.1	ug/L	U	0.1	0.4
12/12/2005 9:50	OUTFALL D001	GC-Water	Mevinphos	0.2	ug/L	U	0.2	0.8
12/12/2005 9:50	OUTFALL D001	GC-Water	Naled	0.8	ug/L	UJ	0.8	3.2
12/12/2005 9:50	OUTFALL D001	GC-Water	Norflurazon	0.15	ug/L	U	0.15	0.6
12/12/2005 9:50	OUTFALL D001	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
12/12/2005 9:50	OUTFALL D001	GC-Water	Parathion Methyl	0.1	ug/L	U	0.1	0.4
12/12/2005 9:50	OUTFALL D001	GC-Water	Phorate	0.05	ug/L	U	0.05	0.2
12/12/2005 9:50	OUTFALL D001	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
12/12/2005 9:50	OUTFALL D001	GC-Water	Simazine	0.97	ug/L		0.05	0.2
12/12/2005 10:00	FIELD BLANK	GC-Water	Alachlor	0.58	ug/L	U	0.58	2.3
12/12/2005 10:00	FIELD BLANK	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.19
12/12/2005 10:00	FIELD BLANK	GC-Water	Atrazine	0.048	ug/L	U	0.048	0.19
12/12/2005 10:00	FIELD BLANK	GC-Water	Azinphos Methyl	0.19	ug/L	U	0.19	0.76
12/12/2005 10:00	FIELD BLANK	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
12/12/2005 10:00	FIELD BLANK	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
12/12/2005 10:00	FIELD BLANK	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.19
12/12/2005 10:00	FIELD BLANK	GC-Water	Chlorpyrifos Methyl	0.096	ug/L	U	0.096	0.38

## Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
12/12/2005 10:00	FIELD BLANK	GC-Water	Diazinon	0.048	ug/L	U	0.048	0.19
12/12/2005 10:00	FIELD BLANK	GC-Water	Ethion	0.048	ug/L	U	0.048	0.19
12/12/2005 10:00	FIELD BLANK	GC-Water	Ethoprop	0.096	ug/L	U	0.096	0.38
12/12/2005 10:00	FIELD BLANK	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
12/12/2005 10:00	FIELD BLANK	GC-Water	Fonofos	0.096	ug/L	U	0.096	0.38
12/12/2005 10:00	FIELD BLANK	GC-Water	Hexazinone	0.096	ug/L	U	0.096	0.38
12/12/2005 10:00	FIELD BLANK	GC-Water	Malathion	0.14	ug/L	UJ	0.14	0.56
12/12/2005 10:00	FIELD BLANK	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
12/12/2005 10:00	FIELD BLANK	GC-Water	Metolachlor	0.48	ug/L	U	0.48	1.9
12/12/2005 10:00	FIELD BLANK	GC-Water	Metribuzin	0.096	ug/L	U	0.096	0.38
12/12/2005 10:00	FIELD BLANK	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
12/12/2005 10:00	FIELD BLANK	GC-Water	Naled	0.77	ug/L	UJ	0.77	3.1
12/12/2005 10:00	FIELD BLANK	GC-Water	Norflurazon	0.14	ug/L	U	0.14	0.56
12/12/2005 10:00	FIELD BLANK	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
12/12/2005 10:00	FIELD BLANK	GC-Water	Parathion Methyl	0.096	ug/L	U	0.096	0.38
12/12/2005 10:00	FIELD BLANK	GC-Water	Phorate	0.048	ug/L	U	0.048	0.19
12/12/2005 10:00	FIELD BLANK	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
12/12/2005 10:00	FIELD BLANK	GC-Water	Simazine	0.048	ug/L	U	0.048	0.19
12/12/2005 9:50	OUTFALL D001	Metals-Water	Aluminum	16	ug/L	I	5	20
12/12/2005 9:50	OUTFALL D001	Metals-Water	Arsenic	4	ug/L	U	4	16
12/12/2005 9:50	OUTFALL D001	Metals-Water	Cadmium	0.05	ug/L	U	0.05	0.2
12/12/2005 9:50	OUTFALL D001	Metals-Water	Calcium	101	mg/L	A	0.05	0.2
12/12/2005 9:50	OUTFALL D001	Metals-Water	Chromium	1	ug/L	U	1	4
12/12/2005 9:50	OUTFALL D001	Metals-Water	Copper	19.7	ug/L	A	0.5	2
12/12/2005 9:50	OUTFALL D001	Metals-Water	Iron	98	ug/L	A	10	40
12/12/2005 9:50	OUTFALL D001	Metals-Water	Lead	0.075	ug/L	U	0.075	0.3
12/12/2005 9:50	OUTFALL D001	Metals-Water	Magnesium	43.5	mg/L	A	0.01	0.04
12/12/2005 9:50	OUTFALL D001	Metals-Water	Nickel	2.2	ug/L	I	1	4
12/12/2005 9:50	OUTFALL D001	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
12/12/2005 9:50	OUTFALL D001	Metals-Water	Silver	0.025	ug/L	U	0.025	0.1
12/12/2005 9:50	OUTFALL D001	Metals-Water	Zinc	6.5	ug/L	I	3	12
12/12/2005 10:00	FIELD BLANK	Metals-Water	Aluminum	5	ug/L	U	5	20
12/12/2005 10:00	FIELD BLANK	Metals-Water	Arsenic	4	ug/L	U	4	16
12/12/2005 10:00	FIELD BLANK	Metals-Water	Cadmium	0.05	ug/L	U	0.05	0.2
12/12/2005 10:00	FIELD BLANK	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
12/12/2005 10:00	FIELD BLANK	Metals-Water	Chromium	1	ug/L	U	1	4
12/12/2005 10:00	FIELD BLANK	Metals-Water	Copper	0.25	ug/L	U	0.25	1



## Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
12/12/2005 10:00	FIELD BLANK	Metals-Water	Iron	10	ug/L	U	10	40
12/12/2005 10:00	FIELD BLANK	Metals-Water	Lead	0.075	ug/L	U	0.075	0.3
12/12/2005 10:00	FIELD BLANK	Metals-Water	Magnesium	0.01	mg/L	U	0.01	0.04
12/12/2005 10:00	FIELD BLANK	Metals-Water	Nickel	1	ug/L	U	1	4
12/12/2005 10:00	FIELD BLANK	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
12/12/2005 10:00	FIELD BLANK	Metals-Water	Silver	0.025	ug/L	U	0.025	0.1
12/12/2005 10:00	FIELD BLANK	Metals-Water	Zinc	3	ug/L	U	3	12
12/12/2005 9:50	OUTFALL D001	Nutrients-Liquid	Ammonia-N	0.084	mg N/L		0.01	0.02
12/12/2005 9:50	OUTFALL D001	Nutrients-Liquid	Fluoride	0.85	mg F/L		0.05	0.1
12/12/2005 9:50	OUTFALL D001	Nutrients-Liquid	Kjeldahl Nitrogen	0.6	mg N/L		0.08	0.2
12/12/2005 9:50	OUTFALL D001	Nutrients-Liquid	NO2NO3-N	0.6	mg N/L		0.004	0.01
12/12/2005 9:50	OUTFALL D001	Nutrients-Liquid	O-Phosphate-P	0.27	mg P/L		0.02	0.05
12/12/2005 9:50	OUTFALL D001	Nutrients-Liquid	Total-P	0.3	mg P/L		0.04	0.12
12/12/2005 9:50	OUTFALL D001	Nutrients-Liquid	TSS	4	mg/L	U	4	16
12/12/2005 9:50	OUTFALL D001	Nutrients-Liquid	Turbidity	0.85	NTU		0.05	0.05
12/12/2005 10:00	FIELD BLANK	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
12/12/2005 10:00	FIELD BLANK	Nutrients-Liquid	Fluoride	0.05	mg F/L	U	0.05	0.1
12/12/2005 10:00	FIELD BLANK	Nutrients-Liquid	Kjeldahl Nitrogen	0.08	mg N/L	U	0.08	0.2
12/12/2005 10:00	FIELD BLANK	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
12/12/2005 10:00	FIELD BLANK	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
12/12/2005 10:00	FIELD BLANK	Nutrients-Liquid	Total-P	0.04	mg P/L	U	0.04	0.12
12/12/2005 9:50	OUTFALL D001	Overflow	Alpha, Total	3.1	pCi/L			
12/12/2005 9:50	OUTFALL D001	Overflow	Alpha-Counting Error	1.3	pCi/L			
12/12/2005 9:50	OUTFALL D001	Overflow	Radium 226	2.1	pCi/L			
12/12/2005 9:50	OUTFALL D001	Overflow	Radium 226-Counting Error	0.3	pCi/L			
12/12/2005 9:50	OUTFALL D001	Overflow	Radium 228	0.8	pCi/L	U		
12/12/2005 9:50	OUTFALL D001	Overflow	Radium 228-Counting Error	0.5	pCi/L			
12/12/2005 10:00	FIELD BLANK	Overflow	Alpha, Total	0.8	pCi/L	U		
12/12/2005 10:00	FIELD BLANK	Overflow	Alpha-Counting Error	0.5	pCi/L			
12/12/2005 10:00	FIELD BLANK	Overflow	Radium 226	0.2	pCi/L	U		
12/12/2005 10:00	FIELD BLANK	Overflow	Radium 226-Counting Error	0.1	pCi/L			
12/12/2005 10:00	FIELD BLANK	Overflow	Radium 228	0.9	pCi/L	U		
12/12/2005 10:00	FIELD BLANK	Overflow	Radium 228-Counting Error	0.6	pCi/L			

