GNF-A WILMINGTON

ENVIRONMENTAL REPORT

SUPPLEMENT

March 30, 2007

APPENDIX E

Exhibit E-1

(Page 1 of 2)

GNF-A ENVIRONMENTAL MONITORING PROGRAM (RADIOLOGICAL) (TYPICAL)				
TYPE OF SAMPLE	**ANALYSES**	**SAMPLING FREQUENCY**	**ROUTINE MINIMUM DETECTION LEVEL**	
Air Particulates - Point Sources	Alpha	Continuous (Collection Weekly)	1.0×10^{-12} microcuries per milliliter	
Ambient Air - On-Site	Alpha	Continuous (Collection Weekly)	0.5×10^{-15} microcuries per milliliter	
Process Liquid At On-Site Discharge Point	Uranium Content Alpha; Beta	Daily; Weekly	0.02 parts per million - uranium	
			3.0×10^{-8} microcuries per milliliter alpha	5.0×10^{-8} microcuries per milliliter beta
Ground Water - On-Site	Uranium Content Alpha; Beta	Monthly; Quarterly	0.02 parts per million - uranium	
			5 picocuries per liter - alpha	20 picocuries per liter - beta
River Water - Upstream and Downstream of Site Discharge (NE Cape Fear River)	Alpha; Beta	Monthly	5 picocuries per liter alpha	20 picocuries per liter beta
Liquid – Site Dam	Uranium	Weekly	0.02 parts per million - uranium	
Sediment - Above Site Dam	Uranium	Annually	0.02 parts per million - uranium	
Soil - On-Site	Uranium	Semi-Annually	0.02 parts per million - uranium	
Vegetation - On-Site	Fluoride	Semi-Annually	1.0 parts per million - fluoride	
*Nitrate Waste Shipments	Uranium Content Alpha; Beta	Variable	See next page	
*IP Site Samples	Uranium Content Alpha; Beta	Quarterly	See next page	
**Cape Fear River Samples	Alpha; Beta	Quarterly	See next page	

* Discontinued in 2001

** Discontinued in 2002

Exhibit E-1

(Page 2 of 2)

GNF-A ENVIRONMENTAL MONITORING PROGRAM (RADIOLOGICAL) NITRATE WASTE STREAM*				
SAMPLE POINT	**TYPE OF SAMPLE**	**ANALYSES**	**SAMPLING FREQUENCY**	**ROUTINE MINIMUM DETECTION LEVEL**
a) Ammonium nitrate tank truck	Grab	U content	Each truck	0.1 ppm
	Composite of individual truck samples for one day	U content	Daily	0.02 ppm U
	Weekly composite of truck samples	Gross Alpha, Gross Beta	Weekly	5 pCi/L gross α, 5×10^{-8} μCi/ml, gross β
b) Canal Sludge	Grab	U content, Gross alpha, gross beta	Quarterly	0.02 ppm U 13 pCi/g, gross α, 13 pCi/g, gross β
c) Sludge Pond/ Clarifier Sludge	Grab	Gross alpha, gross beta, U content	Quarterly	0.02 ppm U 13 pCi/g, gross α, 13 pCi/g, gross β
d) New Bay Sludge	Grab	Gross alpha, gross beta, U content	Quarterly	0.02 ppm U 13 pCi/g, gross α, 13 pCi/g, gross β
e) North Basin Sludge	Grab	Gross alpha, gross beta, U content	Quarterly	0.02 ppm U 13 pCi/g, gross α, 13 pCi/g, gross β
f) North Basin liquid	Grab	Gross alpha, gross beta	Quarterly	5 pCi/L gross α, 5×10^{-8} μCi/ml, gross β
g) New Bay liquid	Grab	Gross alpha, gross beta	Quarterly	5 pCi/L gross α, 5×10^{-8} μCi/ml, gross β
h) Cape Fear River upstream	Grab	Gross alpha, gross beta	Quarterly	5 pCi/L gross α, 5×10^{-8} μCi/ml, gross β
i) Cape Fear River downstream	Grab	Gross alpha, gross beta	Quarterly	5 pCi/L gross α, 5×10^{-8} μCi/ml, gross β

* Nitrate waste shipments discontinued in 2001.

Exhibit E-2 (Page 1 of 3)

GNF-A Wilmington Environmental Monitoring Program (Non-Radiological) (Typical)

Sampling Point	Exhibit Reference #	Collection Frequency	Sample Type		Acute Toxicity	BOD5	Cd	Cr	Cu	Cyanide	F	Flow	Ni	NH_3	NO_3	NO_2	O & G	Pb	pH	Total Phosphorus	Silver	Zn	TSS	Temperature	Fecal Coliform	TTO	DO	Other
AIR																												
Airborne discharges (Stacks)	-	Daily & Weekly	Composite								X																	
WATER																												
Discharge from final process basins	E-12	Weekly	Composite			X	X							X	X	X							X					
		Weekly	Grab														X		X					X			X	
		Continuous	Recording									X																
		Monthly	Composite					X	X		X		X					X			X	X						
		Monthly	Grab							X																		Trichloroethene
		Quarterly	Composite		X															X								
		Quarterly	Grab																							X		Nitrosamines
Discharge from sanitary wastewater treatment facility	E-12	Continuous	Recording									X																
		Weekly	Composite			X								X									X					
		Weekly	Grab																X						X		X	
		2/Week	Grab																									Total Residual Chlorine
		Daily	Grab																					X				
		Quarterly	Composite												X	X				X								TKN

Exhibit E-2 (Page 2 of 3)

GNF-A Wilmington Environmental Monitoring Program (Non-Radiological) (Typical)

Sampling Point	Exhibit Reference #	Collection Frequency	Sample Type		Acute Toxicity	BOD5	Cd	Cr	Cu	Cyanide	F	Flow	Ni	NH_3	NO_3	NO_2	O & G	Pb	pH	Total Phosphorus	Silver	Zn	TSS	Temperature	Fecal Coliform	TTO	DO	Other
NE Cape Fear River (Upstream @ Boat Landing & Downstream @ GE Dock) *	E-12	Weekly	Grab																					X			X	Conductivity
		Quarterly	Grab			X		X	X		X		X	X	X	X			X	X				X	X		X	Chloride, SO_4, Ti
Site Dam	E-12	Weekly	Grab								X			X	X				X									
NITRATE WASTE STREAM																												
Ammonium Nitrate Tank Truck ****	-	Daily	Composite of Truck											X	X				X									
		Weekly	Composite of Truck					X	X				X															
Local Paper Company Sampling ****	-	Weekly	Grab											X	X													

* Weekly Grab samples are taken by Lower Cape Fear River Basin Monitoring Coalition.

** Discontinued Sampling in August 2001.

Exhibit E-2 (Page 3 of 3)

GNF-A Wilmington Environmental Monitoring Program (Non-Radiological) (Typical)

Sampling Point	Exhibit Reference #	Collection Frequency	Sample Type		Acute Toxicity	BOD5	Cd	Cr	Cu	Cyanide	F	Flow	Ni	NH_3	NO_3	NO_2	O & G	Pb	pH	Total Phosphorus	Silver	Zn	TSS	Temperature	Fecal Coliform	TTO	DO	Other
GROUNDWATER																												
WT Series Wells	E-10	Annually	Grab								X			X	X				X									Total Dissolved Solids
PL Series Wells	E-9	Quarterly, 2/Yr	Grab								X			X	X				X									Total Dissolved Solids
MW Series Wells	E-8	Annually	Grab								X				X				X									
WW Series Wells	E-7	Quarterly, 2/Yr, Annually	Grab								X				X				X									Total Dissolved Solids
FX Series Wells	E-63	2/Yr	Grab								X			X	X				X									
FW Series Wells	E-67	2/Yr, Annually	Grab								X			X	X				X									
CW Series Wells	E-68	Quarterly, 2/Yr, Annually	Grab								X				X				X									

NOTES:

- Reference Exhibit E-3 for Water Analysis Methodology.
- "Daily" sampling frequency is 5 days per week except for holidays and weekends. Collection for the final process basin composites is continued automically during such times and the sample is picked up on the first working day.
- Non-radiological environmental monitoring program for water may change in accordance with conditions in NPDES Permit when renewed.

EXHIBIT E-3

WATER ANALYSIS - METHODOLOGY

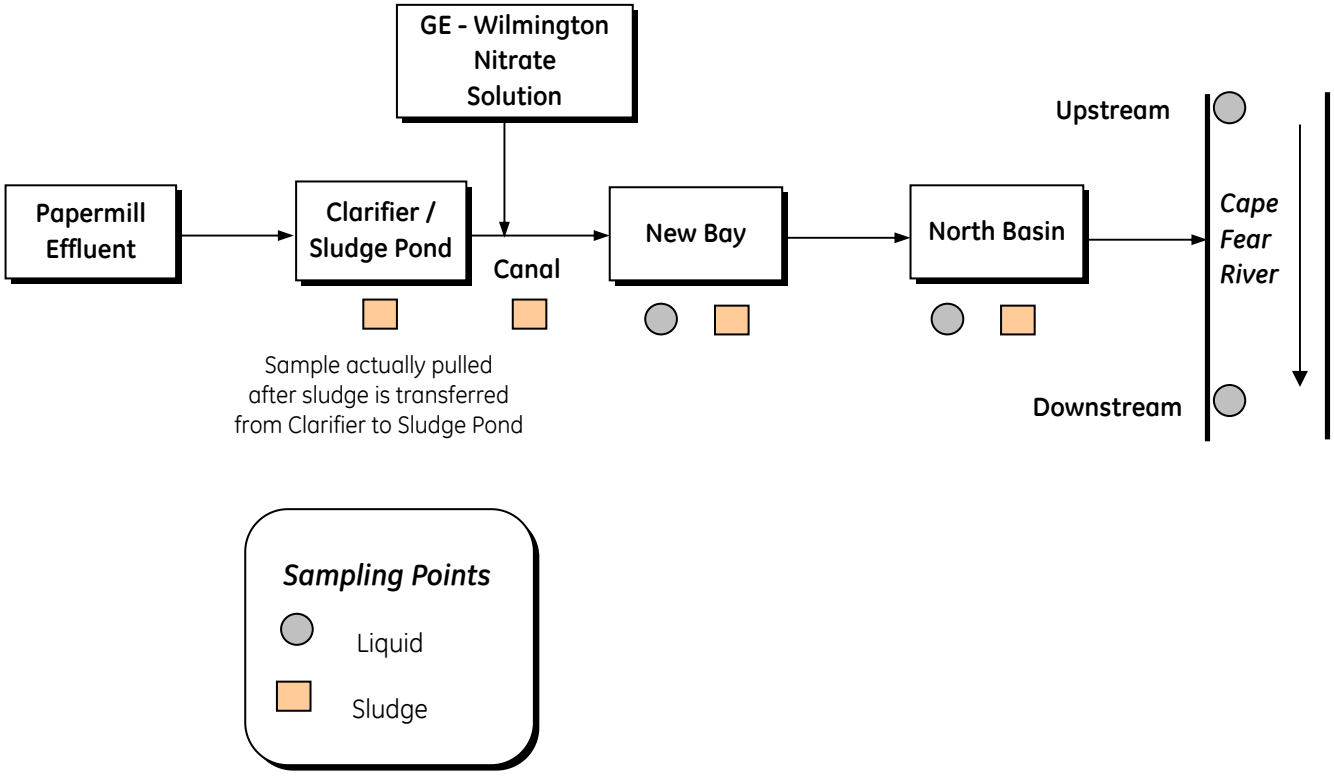
PARAMETER	METHOD	ACCURACY	MINIMUM DETECTION LEVEL	REFERENCE
pH - Lab pH - Field	Electrode Electrode	± 0.02 unit ± 0.1 unit	0.01 unit 0.01 unit	Vendor manual, [3]COI 217
Fluoride (Vegetation)	Electrode Electrode	± 0.05 ppm ± 7 ppm	0.01 ppm <10 ppm	COI 613 R.2 Oxford Lab, COI 613 R.2
Copper	ICP[2]	± 10%	0.05 ppm	COI 425.00 R.2
Nickel	ICP	± 10%	0.05 ppm	COI 425.00 R.2
Chloride	Electrode	2% relative at 100 ppm	1 ppm	Orion Electrode Manual COI 606
Sulfate	Turbidimetric	10% relative @ 20 ppm	0.4 ppm	[1]CM&S 5.2.19.2 R.1
Phosphate	Antimony-Potassium Tartrate/Ammonium Molybdate	± 1 ppm @ 10 ppm	0.1 ppm	COI 611 R.2
Nitrate	Brucine	± 0.6 @ 10 ppm	0.1 ppm	CM&S 5.2.14.1 R.3
Nitrite	Azo dye color	± 5% relative	0.02 ppm	COI 608
Ammonia	Nessler	± 10% relative	0.1 ppm	COI 610 R.3
Chromium	ICP	± 10%	0.05 ppm	COI 425.00 R.2
Titanium	ICP	± 10%	0.05 ppm	COI 425.00 R.2
Uranium	Laser phosphorimetry	± 0.01 ppm	0.02 ppm	COI 615
COD	Dichromate Reflux	7%	< 15 ppm	HACH Method
BOD_5	Dilution	12%	<1 ppm	Standard Methods 19th Ed., 1995
Total Solids	Evaporation at 110°C	± 5%		COI 618.00 R.0
Total Dissolved Solids	Evaporation at 110°C	± 5%		COI 618.00 R.0
Total Suspended Solids	Filter through Micron Filter	± 5%		COI 618.00 R.0
Dissolved Oxygen	Field instrument	± 3%	0.01 ppm	Vendor supplied method

NOTES:

[1]CM&S = GE Chemical, Metallurgical and Spectrochemical Manual
[2]ICP = Inductively Coupled Plasma Spectrometer
[3]COI = Calibration and Operation Instruction
[4]HACH = Hazard Communication Handbook

Exhibit E-4

Sampling Locations for Local Paper Company



Note: Sampling discontinued since 1998.

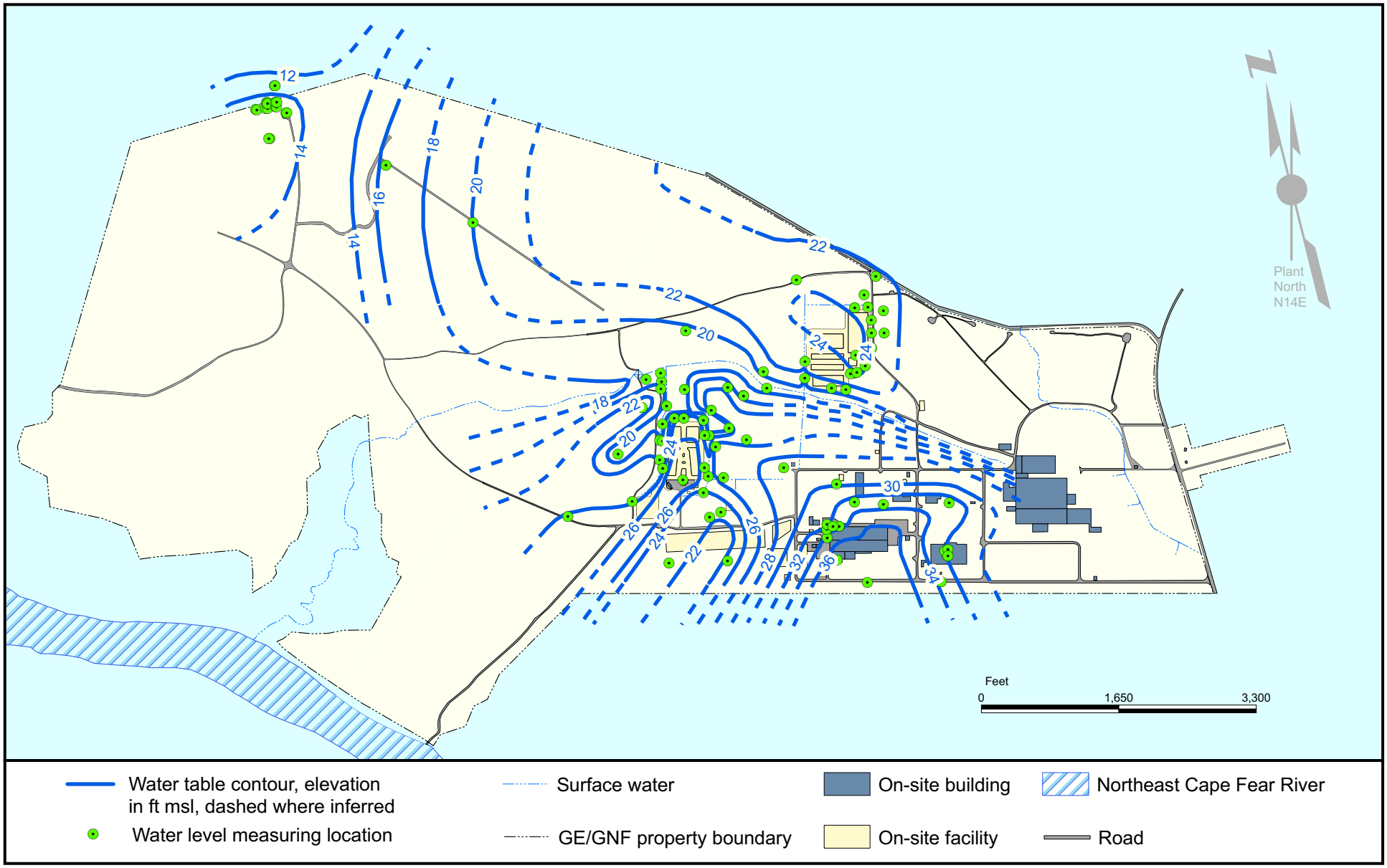


Exhibit E-5
Generalized Water Table of Surficial Aquifer

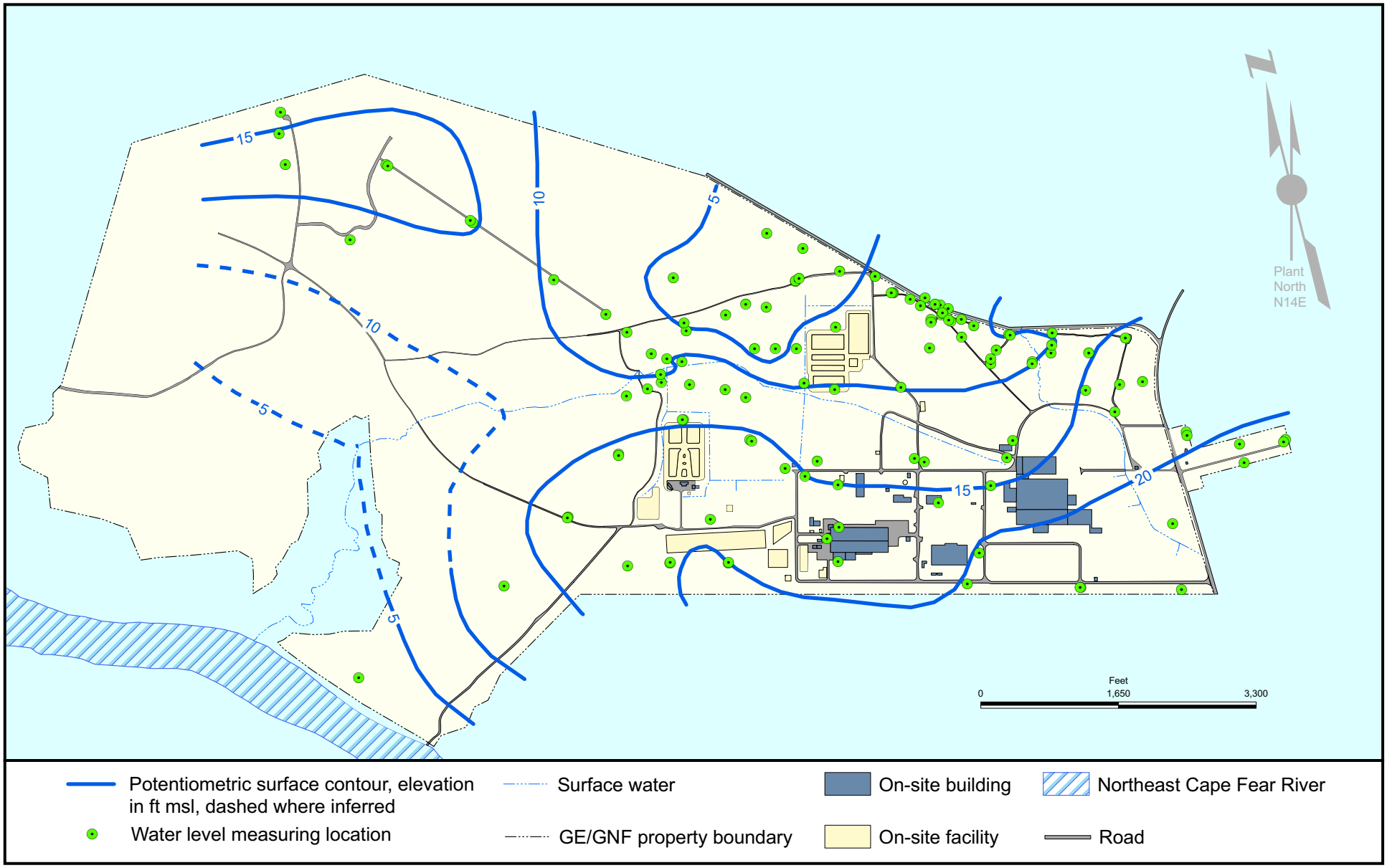


Exhibit E-6
Generalized Potentiometric Surface of Principal Aquifer

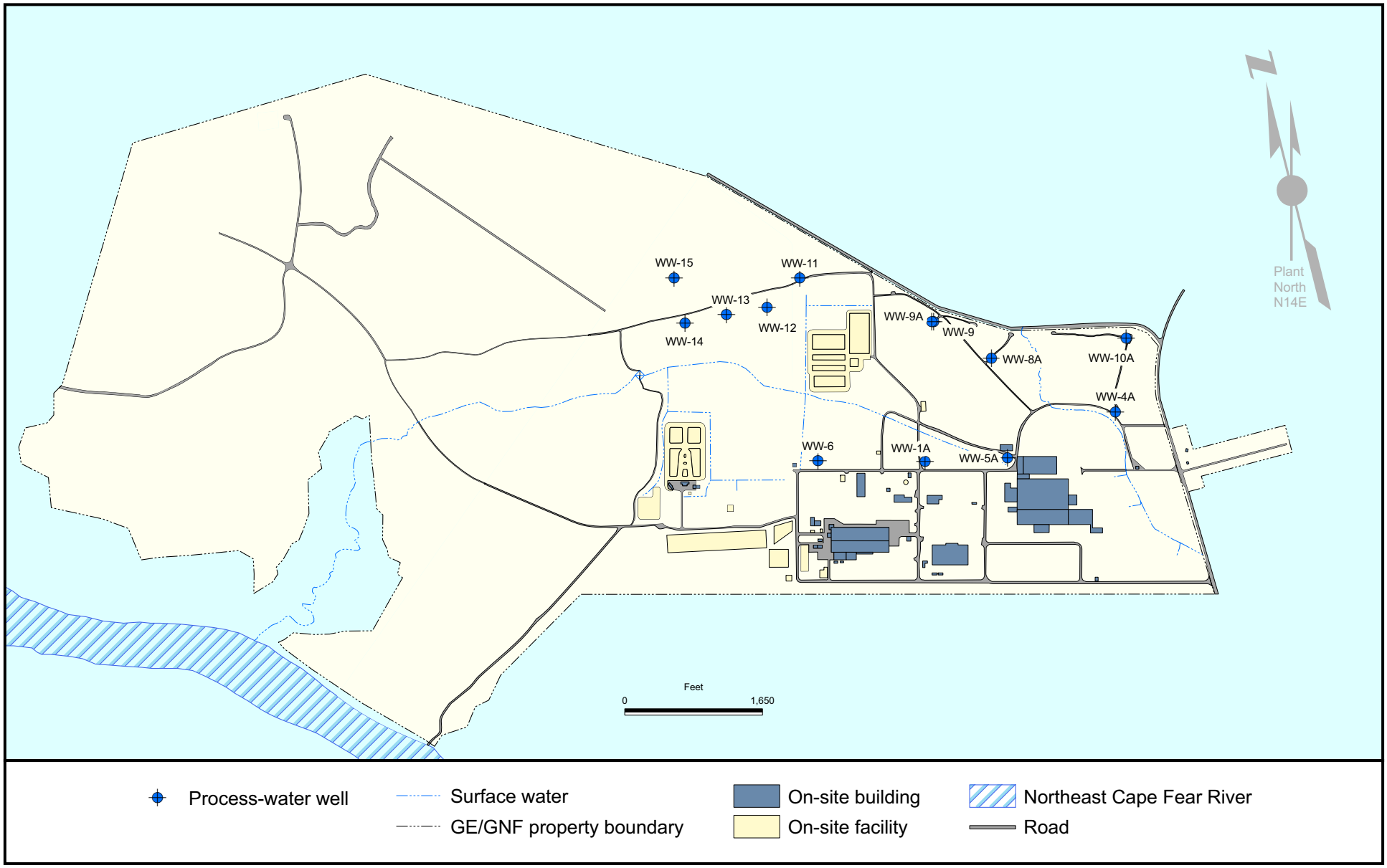


Exhibit E-7
Locations of WW-Series Process Water Supply Wells

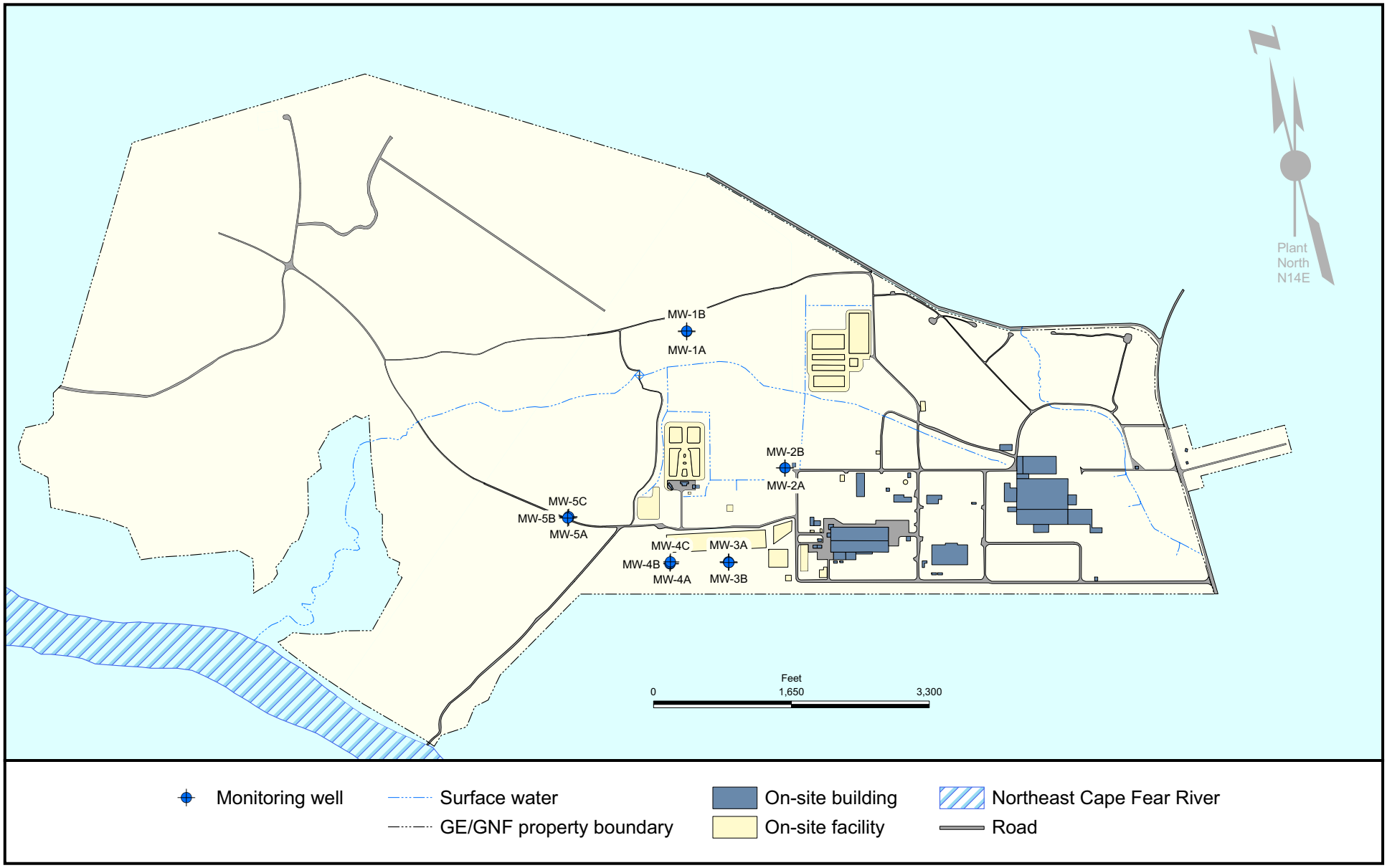


Exhibit E-8
Locations of MW-Series Wells around Waste Treatment Facility

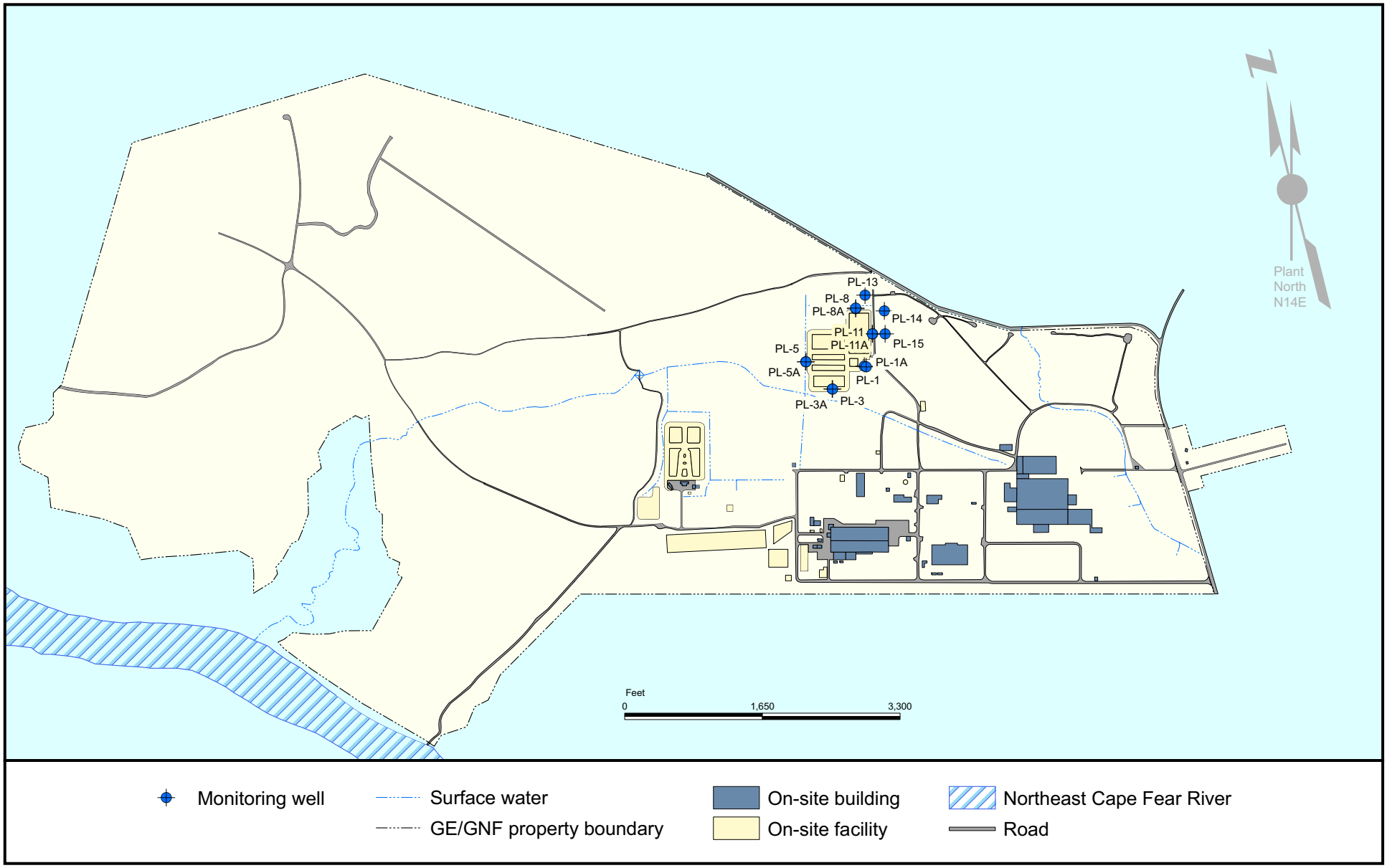


Exhibit E-9
Locations of PL-Series Wells around Final Process Waste Water Treatment Facility

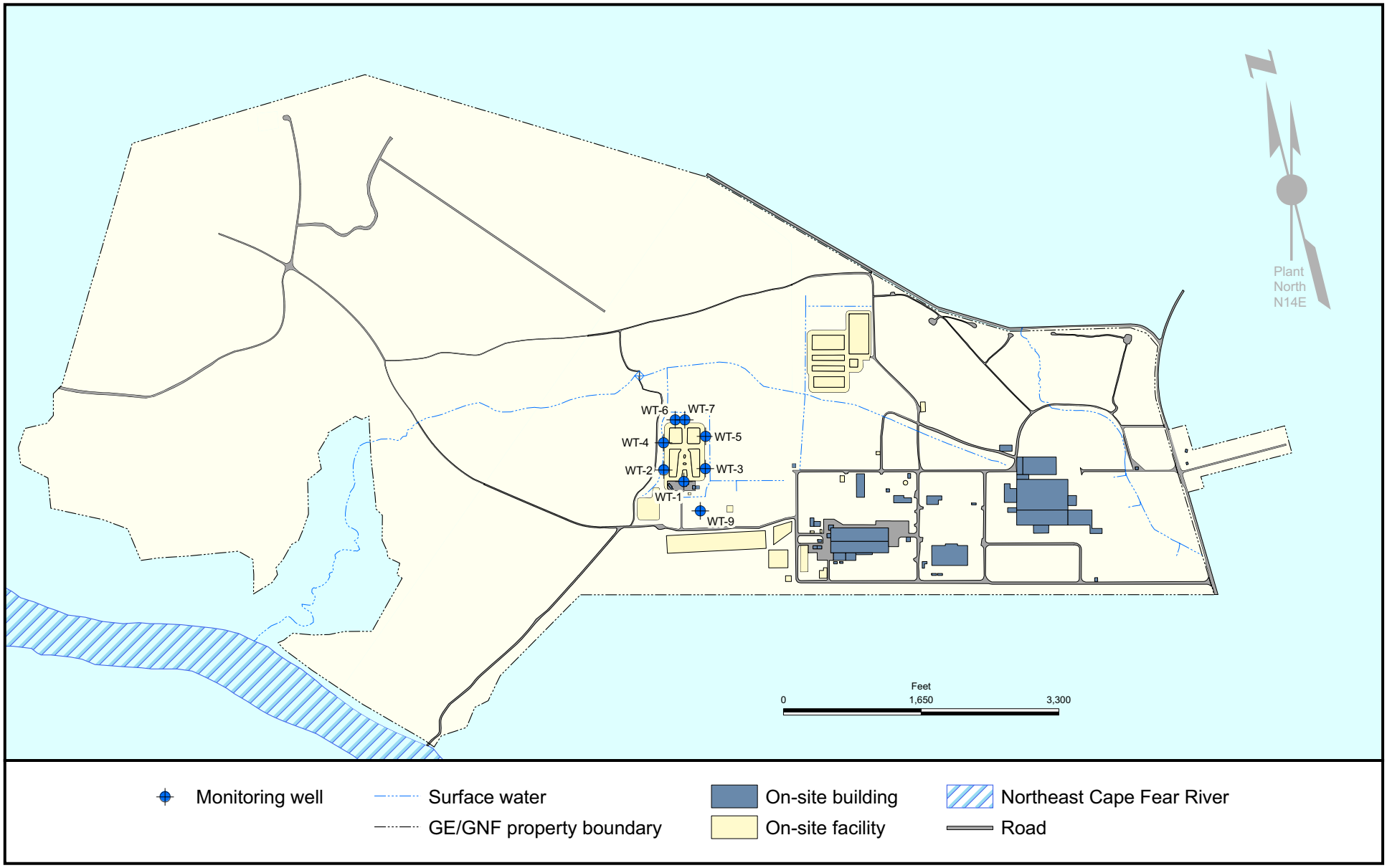


Exhibit E-10
Locations of WT-Series Wells around Waste Treatment Facility

Exhibit E-11

Locations of Z Series Monitoring Wells-Former Zirconium Sludge Storage Area

Note: The Former Zirconium Sludge Storage Area was located south of the Waste Treatment Facility. The sludge was removed and disposed of off-site in the mid-1980's. Z Series Wells were sealed and removed as of 1998.

Exhibit E-12

Surface Water and Sediment Sampling Locations

Surface Water Samples	
*UPST	Off Site Castle Hayne Boat Landing
*SDAM	On Site Downstream ~ 10 ft from the Dam
*GEDK	On Site GE Dock – NE Cape Fear River
Sediment Samples	
* SD02	On Site 10' Upstream of Site Dam, South Side
* SD03	On Site GE Dock – NE Cape Fear River
* SD04	Off Site Castle Hayne Boat Landing

*State Split Sampling

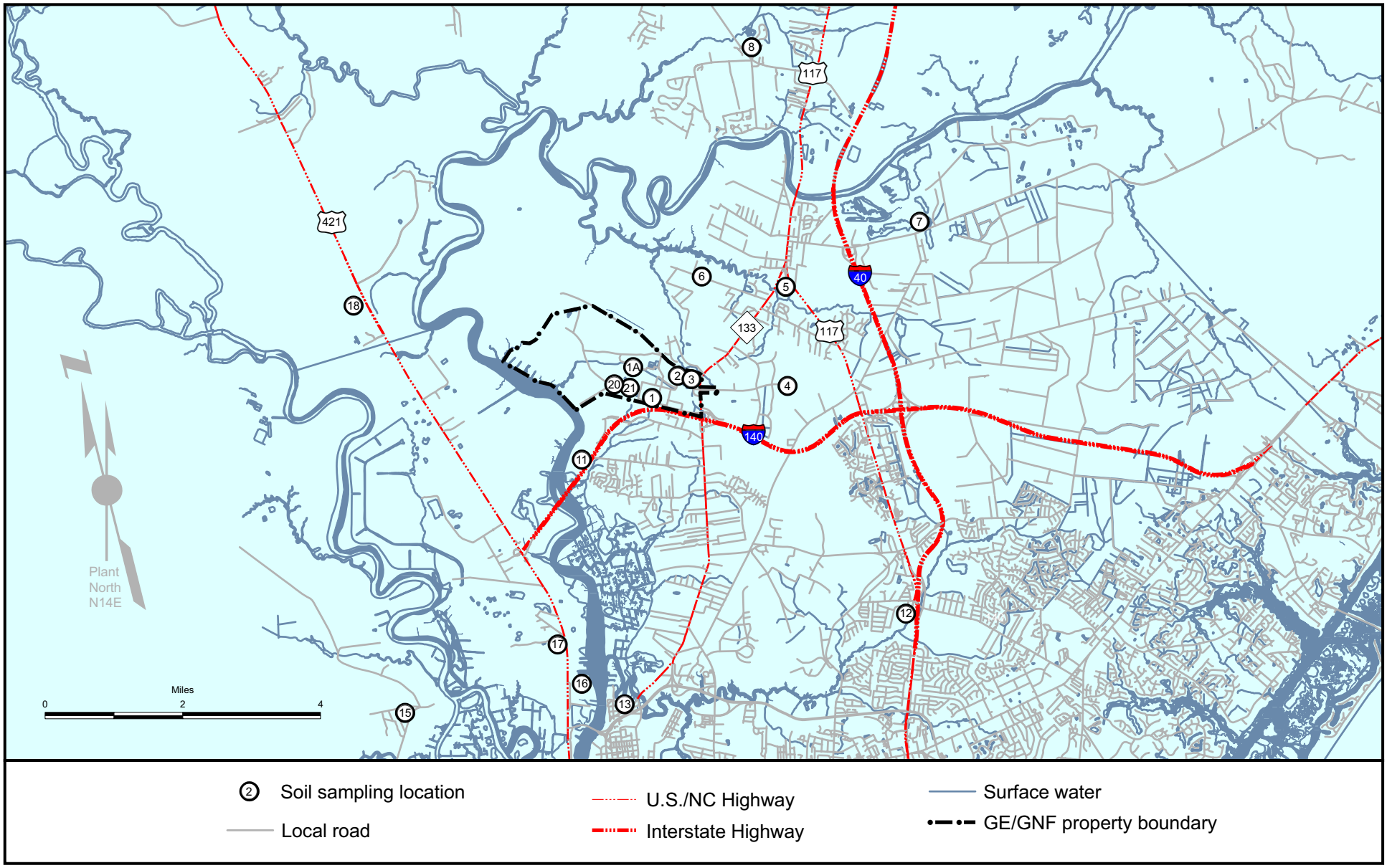
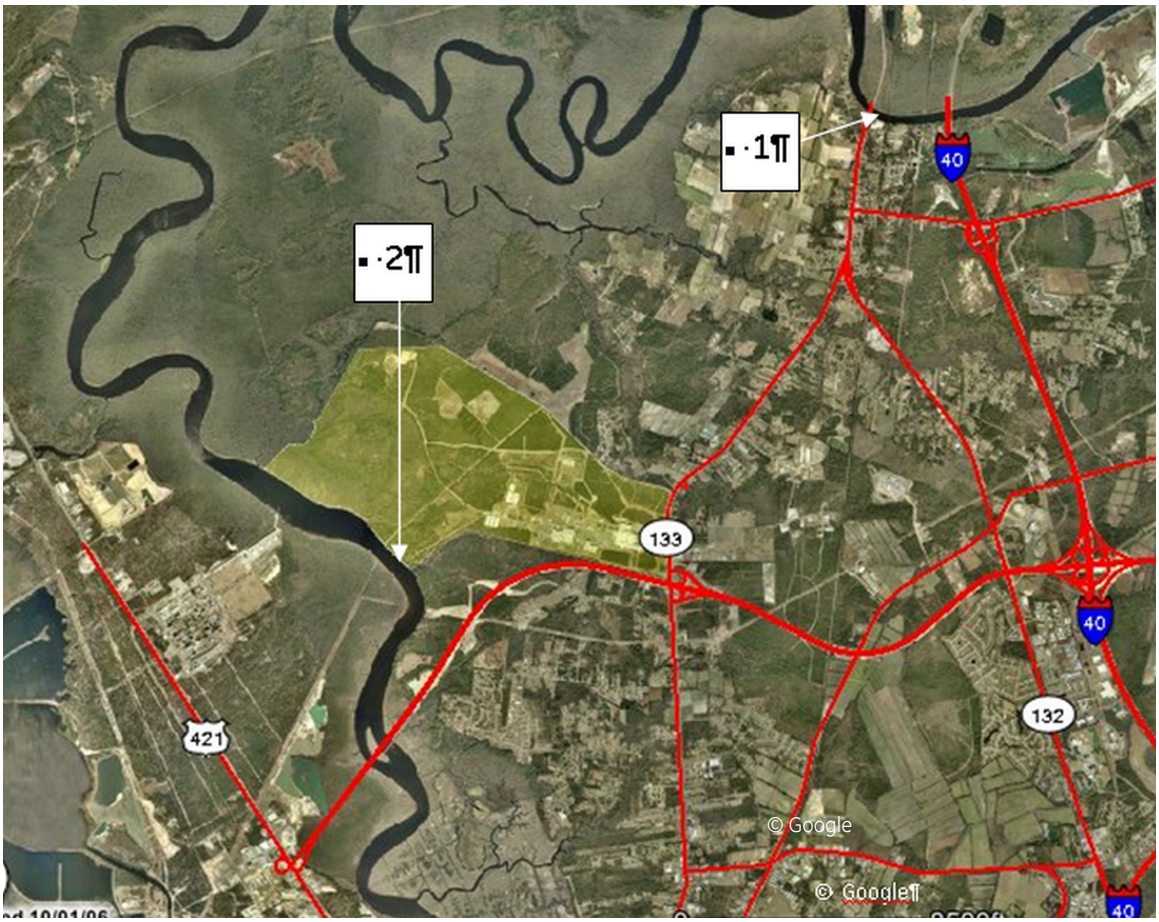


Exhibit E-13
Environmental Soil Sampling Locations

Exhibit E-14

Locations of River Water Sampling Sites



<u>Location Descriptions:</u>

1 – Castle Hayne Boat Landing (Upstream) - Monthly Grab Sample

2 - GE River Dock (Downstream) - Weekly Composite Sample from daily composites

Exhibit E-15

Effluent Monitoring Discharges to Atmosphere - Uranium Activity

Year	Number of Discharge Stacks	Air Volume Discharged (x 10^{15} cc)	Total Gross Alpha Activity (microcuries)	Average Gross Alpha Concentration at Points of Discharge (x 10^{-12} µCi/cc)
1995	30	2.380	115.502	0.049
1996	30	3.07	114.071	0.037
1997	32	3.433	196.976	0.057
1998	29	3.592	126.22	0.035
1999	27	3.561	43.003	0.012
2000	26	3.5014	32.79	0.009
2001	26	3.544	23.172	0.007
2002	26	3.579	17.969	0.005
2003	26	3.529	16.345	0.005
2004	26	3.463	14.938	0.004
2005	26	3.24	22.207	0.007

Exhibit E-16

Environmental Monitoring
Airborne
Gross Alpha and Isotopic Concentrations
(x 10^-15 uCi/cc)

Jan 95 through Dec 05

Ambient air sampler - Northeast of FMO, near Sanitary lift station

	Uranium Concentration at Discharge Points (grams)	Gross Alpha		U-234		U-235		U-238	
		Ave	Max	Ave	Max	Ave	Max	Ave	Max
1995	21	2.16	5.50	< 0.02	0.08	< 0.01	< 0.02	< 0.01	< 0.02
1996	167	< 2.67	5.60	< 0.03	< 0.07	< 0.02	< 0.04	< 0.02	< 0.04
1997	290	< 3.23	16.00	< 0.09	0.22	< 0.01	< 0.03	< 0.03	0.06
1998	189	2.52	4.80	< 0.01	0.03	< 0.01	< 0.02	< 0.01	< 0.03
1999	62	3.46	9.10	< 0.03	< 0.07	< 0.02	< 0.05	< 0.02	< 0.06
2000	48	3.39	8.60	< 0.04	0.09	< 0.01	< 0.02	< 0.01	< 0.02
2001	33	< 2.64	6.70	< 0.03	0.22	< 0.01	0.06	< 0.02	0.09
2002	26	3.55	7.94	< 0.03	0.06	< 0.01	< 0.02	< 0.02	0.04
2003	23	2.94	10.30	< 0.02	0.04	< 0.01	< 0.01	< 0.02	< 0.03
2004	21	3.81	11.10	< 0.05	0.25	< 0.01	< 0.07	< 0.03	< 0.20
2005	32	4.08	13.80	< 0.03	0.06	< 0.01	< 0.02	< 0.02	0.04

Exhibit E-16

Environmental Monitoring
Airborne
Gross Alpha and Isotopic Concentrations
(x 10^-15 uCi/cc)

Jan 95 through Dec 05

Ambient air sampler - Southeast of FMO

	Uranium Concentration at Discharge Points (grams)	Gross Alpha		U-234		U-235		U-238	
		Ave	Max	Ave	Max	Ave	Max	Ave	Max
1995	21	2.27	5.30	< 0.05	0.37	< 0.01	< 0.02	< 0.01	0.05
1996	167	2.96	5.80	< 0.04	0.06	< 0.02	< 0.03	< 0.02	< 0.04
1997	290	2.92	5.90	< 0.05	0.13	< 0.01	< 0.03	< 0.02	0.04
1998	189	< 2.61	5.00	< 0.02	0.04	< 0.01	< 0.02	< 0.01	< 0.02
1999	62	3.51	8.70	< 0.03	0.04	< 0.02	< 0.04	< 0.02	< 0.04
2000	48	3.85	9.10	< 0.09	0.27	< 0.02	0.05	< 0.02	0.03
2001	33	< 2.93	7.50	< 0.04	0.25	< 0.02	0.11	< 0.02	0.04
2002	26	< 3.52	6.20	< 0.03	0.08	< 0.01	< 0.02	< 0.03	0.08
2003	23	3.19	7.54	< 0.03	0.05	< 0.01	< 0.02	< 0.02	< 0.04
2004	21	4.24	12.80	< 0.02	0.05	< 0.01	< 0.01	< 0.02	< 0.04
2005	32	4.19	13.00	< 0.02	0.03	< 0.01	< 0.02	< 0.02	0.03

Exhibit E-16

Environmental Monitoring
Airborne
Gross Alpha and Isotopic Concentrations
(x 10^-15 uCi/cc)

Jan 95 through Dec 05

Ambient air sampler - South of FMO

	Uranium Concentration at Discharge Points (grams)	Gross Alpha		U-234		U-235		U-238	
		Ave	Max	Ave	Max	Ave	Max	Ave	Max
1995	21	2.31	5.80	< 0.04	0.10	< 0.01	< 0.02	< 0.01	0.03
1996	167	< 2.88	6.30	< 0.05	0.11	< 0.02	< 0.10	< 0.02	< 0.07
1997	290	< 3.03	6.10	< 0.09	0.24	< 0.01	< 0.04	< 0.03	0.08
1998	189	2.65	5.10	< 0.02	< 0.04	< 0.01	< 0.02	< 0.01	< 0.03
1999	62	3.55	8.30	< 0.02	0.05	< 0.01	< 0.03	< 0.02	< 0.03
2000	48	< 3.65	11.00	< 0.08	0.36	< 0.02	0.13	< 0.02	0.10
2001	33	2.65	6.10	< 0.04	0.25	< 0.02	0.13	< 0.01	0.06
2002	26	< 3.55	6.77	< 0.02	0.05	< 0.00	< 0.01	< 0.02	0.04
2003	23	< 3.11	6.26	< 0.03	0.11	< 0.01	< 0.02	< 0.02	< 0.03
2004	21	< 3.96	9.07	< 0.06	< 0.43	< 0.02	< 0.13	< 0.04	< 0.33
2005	32	4.13	10.50	< 0.03	0.05	< 0.00	< 0.01	< 0.01	0.02

Exhibit E-16

Environmental Monitoring
Airborne
Gross Alpha and Isotopic Concentrations
(x 10^-15 uCi/cc)

Jan 95 through Dec 05

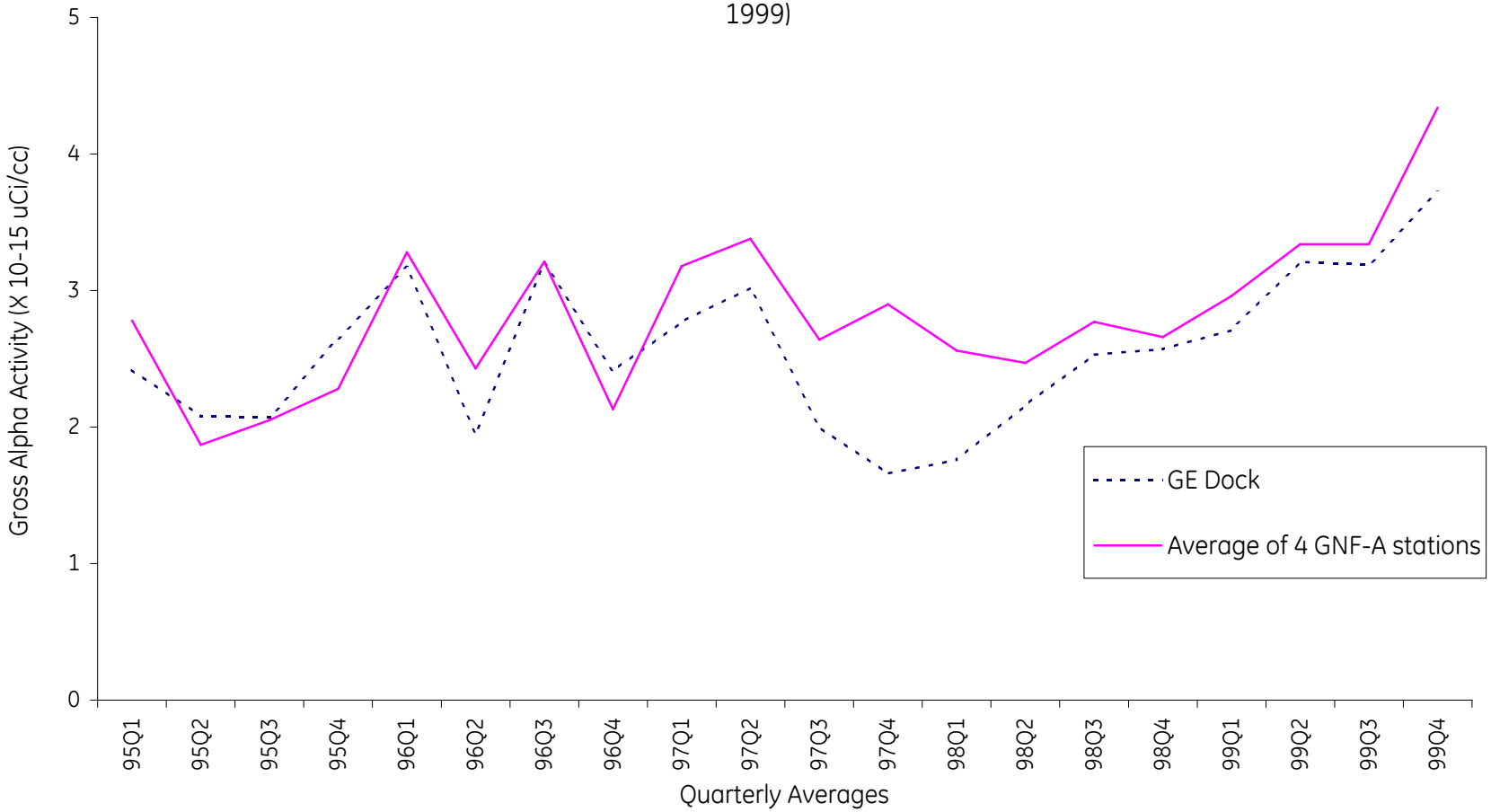
Ambient air sampler - Southwest of FMO

	Uranium Concentration at Discharge Points (grams)	Gross Alpha		U-234		U-235		U-238	
		Ave	Max	Ave	Max	Ave	Max	Ave	Max
1995	21	2.24	4.00	0.05	0.08	< 0.01	< 0.02	< 0.01	0.02
1996	167	2.57	4.60	< 0.04	0.08	< 0.02	< 0.03	< 0.02	< 0.04
1997	290	< 2.90	6.03	0.09	0.26	< 0.01	< 0.02	< 0.03	0.09
1998	189	2.65	5.20	< 0.02	< 0.08	< 0.01	< 0.04	< 0.02	< 0.07
1999	62	3.48	9.80	< 0.03	0.12	< 0.01	< 0.02	< 0.02	< 0.04
2000	48	3.79	9.80	< 0.04	0.14	< 0.01	0.04	< 0.01	0.02
2001	33	< 2.71	7.30	< 0.02	0.05	< 0.01	< 0.01	< 0.01	0.03
2002	26	< 3.38	6.23	< 0.03	0.07	< 0.01	< 0.02	< 0.02	0.06
2003	23	3.08	6.00	< 0.02	0.06	< 0.01	< 0.03	< 0.02	< 0.03
2004	21	3.87	13.30	< 0.03	< 0.06	< 0.01	< 0.01	< 0.02	< 0.04
2005	32	4.46	12.20	< 0.02	0.05	< 0.01	< 0.02	< 0.01	0.02

Exhibit E-17

NC Radiation Protection Section Surveillance Program
Ambient Air

Comparison of Background Gross Alpha Particulate Activity at GE Dock and on-site Sampling Stations (1995-1999)



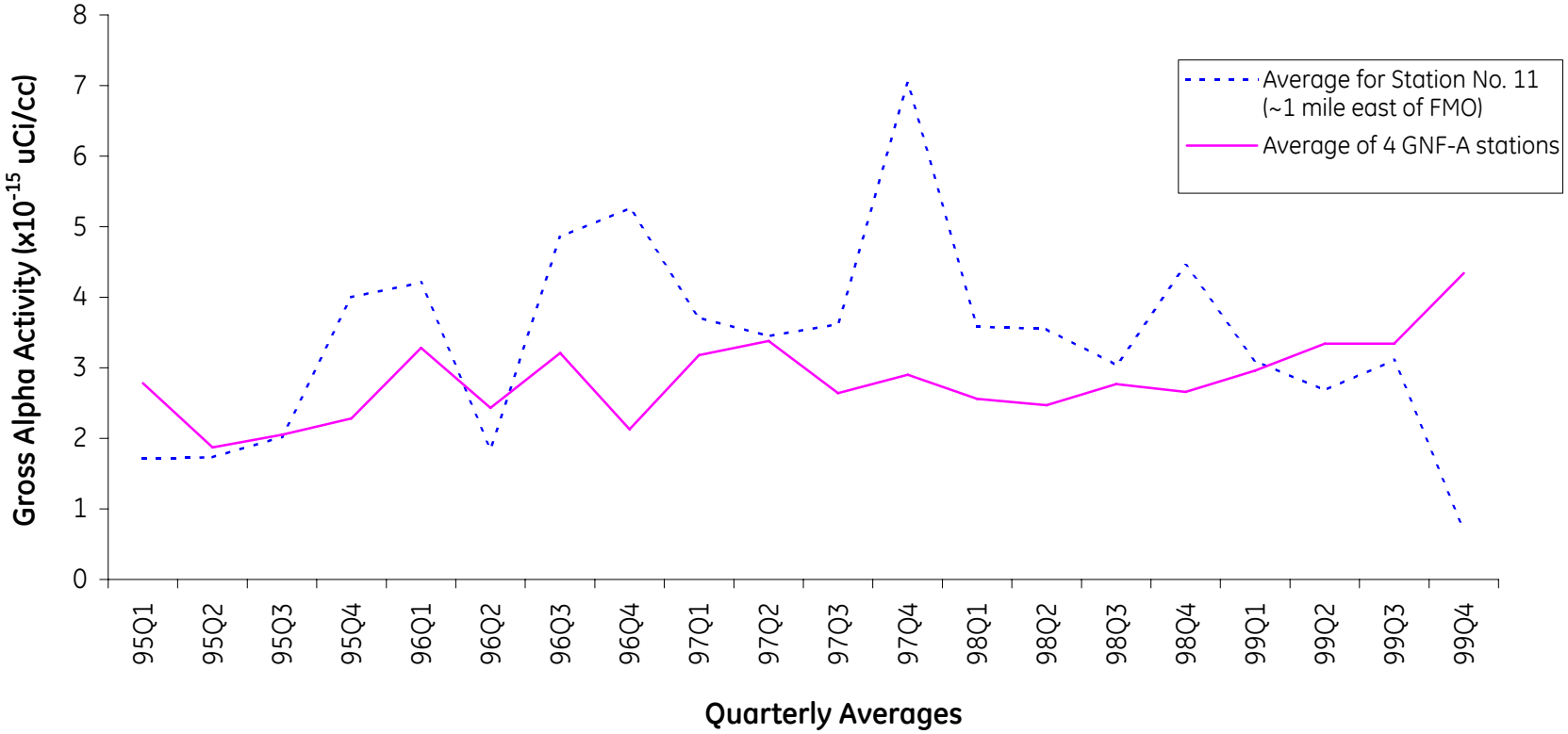
Note: 2000-2005 data not provided by the State

Exhibit E-18

NC Radiation Protection Section Surveillance Program

Ambient Air

Comparison of Background Gross Alpha Particulate Activity at Sampling Station Number 11 and on-site Sampling Stations (1995-1999)



Note: 2000-2005 data not provided by the State

Exhibit E-19

North Carolina Radiation Protection Section
Environmental Surveillance Program

Surface Water

Gross Alpha Activity Concentration (pCi/l)

Sample Date	Sampling Location ID		
	SDAM (Site Dam)	GEDK (GE Dock)	UPST (Castle Hayne Boat Landing)
	See Exhibit E-12	**See Exhibit E-12**	**See Exhibit E-14**
Mar-95	85.2 ± 4.2	2.1 ± 1.3	2.1 ± 1.3
Jun-95	103.0 ± 41.0	4.1 ± 1.4	3.2 ± 1.4
Sep-95	91.6 ± 4.7	0.0 ± 2.4	1.0 ± 2.5
Dec-95	37.2 ± 2.9	2.3 ± 2.3	1.0 ± 1.2
Mar-96	54.7 ± 2.6	1.5 ± 1.1	0.5 ± 1.1
Jun-96	50.7 ± 3.9	4.6 ± 1.9	3.5 ± 1.5
Aug-96	No data	2.0 ± 1.2	2.5 ± 1.3
Nov-96	No data	0.5 ± 1.6	0.5 ± 1.2
Mar-97	36.2 ± 3.2	0.5 ± 1.1	2.0 ± 1.2
Jun-97	69.8 ± 5.6	0.2 ± 0.2	1.7 ± 0.8
Jul-97	18.2 ± 1.6	0.4 ± 2.1	0.7 ± 0.8
Nov-97	28.2 ± 2.6	0.0 ± 1.3	1.6 ± 1.3
Mar-98	42.5 ± 2.8	1.0 ± 0.6	2.4 ± 0.8
Jun-98	37.0 ± 3.4	0.3 ± 1.2	0.0 ± 0.7
Jul-98	39.1 ± 2.8	0.0 ± 51.0	0.6 ± 1.1
Nov-98	No data	0.0 ± 19.0	0.5 ± 0.8
Mar-99	117.0 ± 5.0	1.5 ± 3.7	1.0 ± 1.1
Jun-99	18.7 ± 2.1	1.0 ± 1.9	0.5 ± 1.4
Aug-99	82.4 ± 4.4	1.2 ± 1.7	0.8 ± 0.6
Nov-99	No data	0.0 ± 0.5	2.6 ± 0.9

Note: 2000-2005 data not provided by State

Exhibit E-20

North Carolina Radiation Protection Section
Environmental Surveillance Program

Sediment

Gross Alpha Activity Concentration (pCi/gm-dry)

Sample Date	Sampling Location Number (See Exhibit E-12)		
	SD02 (Upstream of Site Dam)	SD03 (GE Dock)	SD04 (Castle Hayne Boat Landing)
2-Mar-95	8.3 ± 2.3	5.9 ± 1.6	2.7 ± 2.0
14-Sep-95	6.5 ± 2.2	2.6 ± 1.4	3.1 ± 2.4
14-Mar-96	7.4 ± 1.7	0.7 ± 1.2	4.6 ± 1.5
29-Aug-96	1.9 ± 1.8		
7-Nov-96		16.0 ± 3.0	
1-Aug-96			2.7 ± 1.5
27-Mar-97	27.0 ± 30.0	1.7 ± 1.3	6.5 ± 1.7
31-Jul-97	2.0 ± 1.1	1.6 ± 1.5	4.0 ± 2.5
26-Mar-98	4.7 ± 1.7	0.7 ± 0.9	1.6 ± 1.5
24-Jul-98	14.0 ± 30.0	9.1 ± 2.0	10.0 ± 20.0
30-Mar-99	1.5 ± 1.3	0.0 ± 1.3	12.7 ± 2.1
2-Aug-99	8.5 ± 1.8		0.8 ± 1.4
30-Sep-99		0.0 ± 1.5	

Note: Data from 2000 through 2005 is not provided by the State

Exhibit E-21

North Carolina Radiation Protection Section
Environmental Surveillance Program

Terrestrial Vegetation

Gross Alpha Activity Concentration (pCi/gm-wet)

Sample Date	Sampling Location Number (See Exhibit B-10)		
	VG11 Rockhill Rd.	VG06 Marathon Ave.	VG07 Blue Clay Rd.
27-Apr-95	0.7 ± 0.1	0.0 ± 0.4	0.0 ± 0.1
12-Oct-95	6.0 ± 1.4	9.2 ± 1.6	7.4 ± 1.0
25-Apr-96	0.1 ± 0.1	0.4 ± 0.0	0.0 ± 0.0
29-Aug-96	0.2 ± 0.1	0.4 ± 0.1	0.1 ± 0.1
10-Apr-97	0.2 ± 0.1	0.3 ± 0.2	0.0 ± 0.1
27-Aug-97	0.1 ± 0.2	0.0 ± 0.3	0.0 ± 0.1
24-Jun-98	0.3 ± 0.1	0.9 ± 0.1	0.3 ± 0.1
17-Sep-98	4.9 ± 1.2	0.3 ± 0.1	1.7 ± 1.6
26-Apr-99	2.3 ± 1.1	3.7 ± 1.6	1.2 ± 1.0
16-Aug-99	0.0 ± 4.6	0.3 ± 0.2	31.4 ± 5.6

Note: 2000 to 2005 data not available from the State.

Exhibit E-22

Effluent Monitoring
Final Process Basin Outfall

Jan 95 through Dec 05

	Uranium Content (ppm) *			Gross Alpha (x 10^-7 uCi/cc)			Gross Beta (x 10^-7 uCi/cc)		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	0	0	0.10	< 0.56	< 0.15	1.50	< 0.34	0.19	0.85
1996	0	0	0.14	< 0.45	< 0.10	2.00	< 0.41	< 0.20	2.60
1997	< 0.03	0	< 1.00	< 0.26	< 0.07	0.64	0.53	0.25	1.10
1998	< 0.03	0	0.09	< 0.41	< 0.02	1.20	0.40	0.10	1.20
1999	< 0.03	0	0.06	0.39	0.09	1.00	< 2.64	0.10	7.60
2000	< 0.04	0	0.56	0.51	0.13	1.10	3.45	0.67	6.00
2001	< 0.03	0	0.12	< 0.49	0.02	2.10	< 1.14	< 0.04	4.40
2002	< 0.03	0	0.13	0.63	0.18	1.90	0.30	0.09	2.30
2003	< 0.04	0	0.25	0.53	0.26	2.59	0.30	0.16	1.05
2004	< 0.04	0	0.19	< 0.91	< 0.03	2.05	0.35	0.19	0.68
2005	0.05	0	0.18	1.23	0.54	2.77	0.37	0.14	0.70

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

Exhibit E-23

Effluent Monitoring
Nitrate Shipments to Local Paper Board Company

Jan 95 through Dec 05

	Uranium Content (ppm) *			Gross Alpha (x 10^-7 uCi/cc)			Gross Beta (x 10^-7 uCi/cc)		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 0.27	0	0.48	8.68	4.90	18.00	2.71	1.30	6.90
1996	0.19	0	0.40	4.63	1.80	7.80	1.59	0.75	3.50
1997	0.33	0.04	0.66	8.46	0.52	30.00	2.42	0.26	12.00
1998	0.23	0	0.77	< 6.38	< 0.02	27.00	< 3.06	< 0.08	31.00
1999	0.48	0.04	2.16	< 9.75	0.12	69.00	< 3.02	0.10	12.00
2000	0.61	0.06	1.51	12.02	2.50	31.00	4.61	1.10	12.00
2001	1.05	0.12	1.99	13.89	4.30	44.00	5.22	2.10	11.00

Note: Nitrate shipments discontinued after 2001.

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

Exhibit E-24

Effluent Monitoring
Hydrofluoric Acid Shipments
Uranium Concentration (ppm)

	Average	Min	Max
1995	NS	NS	NS
1996	NS	NS	NS
1997	0.24	0.21	0.26
1998	0.52	0.24	0.80
1999	< 0.5	< 0.5	< 0.5
2000	< 1.24	< 0.5	1.98
2001	< 0.5	< 0.5	< 0.5
2002	< 1.01	< 0.5	1.51
2003	< 0.5	< 0.5	< 0.5
2004	< 0.5	< 0.5	< 0.5
2005	< 0.5	< 0.5	< 0.5

Note:
NS = No Shipments prior to DCP starting in 1997.

Exhibit E-25
Effluent Monitoring
Sanitary Waste Water Treatment Facility
Effluent
Uranium Concentration (ppm)*
Jan 95 through Dec 05

	Ave	Min	Max
1995	0	0	0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	0	0	0
2000	0	0	0
2001	0	0	0
2002	0	0	0
2003	0	0	0
2004	0	0	0
2005	0	0	0

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

Exhibit E-26

Effluent Monitoring
Sanitary Sludge
Uranium Concentration As Applied
(ppm) *

Jan 95 through Dec 05 **

	As Applied		
	Ave	**Min**	**Max**
1995	< 0.26	0	2.66
1996	< 0.10	0	0.17

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

** Monitoring discontinued after 1996.

Exhibit E-27

Environmental Monitoring
Site Dam
Uranium Concentration (ppm)*

Jan 95 through Dec 05

	Ave	Min	Max
1995	< 0.04	0	0.50
1996	< 0.03	0	0.20
1997	0	0	0.06
1998	< 0.03	0	0.07
1999	< 0.03	0	0.05
2000	< 0.03	0	0.13
2001	< 0.03	0	0.05
2002	< 0.03	0	0.05
2003	< 0.03	0	0.04
2004	< 0.03	0	0.06
2005	0.05	0.03	0.07

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

Exhibit E-28

Environmental Monitoring
Northeast Cape Fear River
Uranium Concentration (ppm) *

Jan 95 through Dec 05

	Upstream (Castle Hayne Boat Landing)			Downstream (GE-Wilmington Dock)			Downstream (Hilton Dock) **		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	0	0	0	0	0	0.05	0	0	0
1996	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	-	-	-
1999	0	0	0	0	0	0	-	-	-
2000	0	0	0	0	0	0	-	-	-
2001	0	0	0	0	0	0	-	-	-
2002	0	0	0	0	0	0	-	-	-
2003	0	0	0	0	0	0	-	-	-
2004	0	0	0	0	0	0	-	-	-
2005	0	0	0	0	0	0	-	-	-

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

** Monitoring discontinued after 1997. GE Wilmington Dock used for downstream monitoring.

Exhibit E-29

Environmental Monitoring
Principal Aquifer
Uranium Concentration (ppm) *

Jan 95 through Dec 05

	Combined Inlet Water Supply			Supply Well #9A			Supply Well #11			Supply Well #14			Monitoring Well MW-5C		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
2001	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
2002	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
2003	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
2004	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
2005	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0

* Values lower than the minimun detectable level of 0.02 ppm are shown as 0. Combined Inlet Water Supply sampling was discontinued after 1999.

Exhibit E-30

Environmental Monitoring
Principal Aquifer
Activity Concentration

Jan 95 through Dec 05

Gross Alpha (x 10^-7 uCi / cc)

	Supply Well #9A			Supply Well #11			Supply Well #14		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 5.38	< 4.50	9.00	< 4.88	< 4.60	6.80	< 4.99	< 4.60	7.20
1996	< 5.22	< 4.10	8.40	< 4.63	< 4.00	< 4.90	< 4.68	< 4.40	< 4.90
1997	< 5.83	< 4.00	< 8.00	< 5.00	< 2.00	< 8.00	< 5.10	< 2.00	< 7.00
1998	< 3.00	< 3.00	< 3.00	-	-	-	-	-	-
1999	< 6.00	< 6.00	< 6.00	-	-	-	-	-	-
2000	< 6.80	3.60	< 10.00	-	-	-	-	-	-
2001	< 9.70	< 3.00	31.00	-	-	-	-	-	-
2002	< 2.45	< 1.51	< 3.83	-	-	-	-	-	-
2003	8.88	8.88	8.88	-	-	-	-	-	-
2004	5.26	5.26	5.26	-	-	-	-	-	-
2005	-	-	-	-	-	-	-	-	-

Gross Beta (x 10^-7 uCi / cc)

	Supply Well #9A			Supply Well #11			Supply Well #14		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 13.00	< 11.00	< 21.00	< 17.33	< 11.00	35.00	< 15.92	< 11.00	37.00
1996	< 13.67	< 10.00	23.00	< 11.42	< 1.20	20.00	< 12.00	< 10.00	14.00
1997	< 8.17	< 7.00	11.00	< 7.70	< 2.00	< 10.00	< 8.03	< 2.00	< 10.00
1998	< 8.00	< 7.00	< 8.00	-	-	-	-	-	-
1999	< 10.00	< 10.00	< 10.00	-	-	-	-	-	-
2000	< 8.00	< 6.00	< 10.00	-	-	-	-	-	-
2001	< 35.40	< 4.00	170.00	-	-	-	-	-	-
2002	< 3.37	< 3.00	< 3.62	-	-	-	-	-	-
2003	8.91	8.91	8.91	-	-	-	-	-	-
2004	< 4.92	< 4.92	< 4.92	-	-	-	-	-	-
2005	-	-	-	-	-	-	-	-	-

Note: Effective 1998, Gross Alpha and Gross Beta sampling for wells #11 and 14 not required if uranium values at those locations are < 0.02 ppm.

Exhibit E-31

Environmental Monitoring
Water Table Aquifer - Final Process Basin Area
Uranium Concentration (ppm)*

Jan 95 through Dec 05

	Well PL-1			Well PL-3			Well PL-5			Well PL-8		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	0	0	0	0	0	0	-	-	-	0	0	0
1996	0	0	0	0	0	0	-	-	-	< 0.03	0	0.04

	Well PL-1A **			Well PL-3A **			Well PL-5A **			Well PL-8A **		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	-	-	-	-	-	-	0	0	0	-	-	-
1996	-	-	-	-	-	-	0	0	0	-	-	-
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0.02
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0	0	0	0

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

** Wells PL-#A Replaced wells PL-#.

Exhibit E-31

Environmental Monitoring
Water Table Aquifer - Final Process Basin Area
Uranium Concentration (ppm)*

Jan 95 through Dec 05

	Well PL-11A			Well PL-13A			Well PL-14A			Well PL-15A		
	Ave	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max**
1995	< 5.18	0	10.80	-	-	-	-	-	-	-	-	-
1996	0.38	0.35	0.41	-	-	-	-	-	-	-	-	-
1997	1.23	0.46	1.68	-	-	-	-	-	-	-	-	-
1998	0.83	0.41	1.44	0	0	0	0	0	0	0	0	0
1999	0.34	0.23	0.44	0	0	0	0	0	0	0	0	0
2000	< 0.05	0	0.07	0	0	0	0	0	0.02	0	0	0
2001	0.03	0.02	0.05	0	0	0	0	0	0	0	0	0
2002	0.29	0.19	0.42	0	0	0	0	0	0	0	0	0
2003	< 0.33	0	0.54	0	0	0	0	0	0	0	0	0
2004	0.25	0.11	0.50	0	0	0	0	0	0	0	0	0
2005	< 0.05	0	0.08	0	0	0	0	0	0	0	0	0

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

Exhibit E-32

Environmental Monitoring
Water Table Aquifer - Final Process Basin Area
Activity Concentration *

Jan 95 through Dec 05

Gross Alpha (x 10^7 uCi / cc)

	Well PL-1			Well PL-3			Well PL-5			Well PL-8		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	0.09	0.07	0.11	< 0.08	< 0.05	< 0.11	-	-	-	< 0.11	< 0.05	0.25
1996	< 0.07	< 0.05	0.08	< 0.05	< 0.04	0.07	-	-	-	0.10	0.09	0.11

	Well PL-1A **			Well PL-3A **			Well PL-5A **			Well PL-8A **		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	-	-	-	-	-	-	0.11	0.07	0.18	-	-	-
1996	-	-	-	-	-	-	< 0.05	< 0.05	0.05	-	-	-
1997	0.19	0.05	0.28	< 0.05	< 0.04	< 0.05	< 0.05	< 0.04	< 0.06	0.08	0.01	0.14
1998	< 0.10	0.04	0.17	< 0.05	0.03	< 0.06	< 0.07	< 0.05	< 0.08	< 0.07	< 0.05	0.11
1999	0.08	0.08	0.08	< 0.04	0.02	< 0.07	< 0.05	< 0.05	< 0.05	0.07	0.07	0.07
2000	-	-	-	< 0.05	0.02	< 0.07	-	-	-	< 0.06	< 0.05	0.07
2001	-	-	-	< 0.03	< 0.01	< 0.05	-	-	-	0.09	0.07	0.11
2002	-	-	-	< 0.02	< 0.01	< 0.03	-	-	-	-	-	-
2003	-	-	-	< 0.05	< 0.04	0.06	-	-	-	-	-	-
2004	-	-	-	< 0.03	< 0.02	< 0.04	-	-	-	-	-	-
2005	-	-	-	< 0.03	< 0.02	0.04	-	-	-	-	-	-

	Well PL-11A		
	Ave	Min	Max
1995	78.25	29.00	120.00
1996	5.80	3.20	7.80
1997	11.18	4.40	18.00
1998	7.68	3.60	12.00
1999	5.40	2.60	8.20
2000	0.50	0.39	0.63
2001	0.39	0.34	0.43
2002	1.75	1.24	2.24
2003	3.91	2.24	6.56
2004	2.77	1.23	6.50
2005	0.63	0.30	1.08

* Sampling taken for Gross Alpha and Beta for PL-1A, PL-3A, PL-5A, and PL-8A only when uranium concentration is greater than 0.02 mg/l

** Wells PL-#A Replaced wells PL-#

Exhibit E-32

Environmental Monitoring
Water Table Aquifer - Final Process Basin Area
Activity Concentration *

Jan 95 through Dec 05

Gross Beta (x 10^7 uCi / cc)

	Well PL-1			Well PL-3			Well PL-5			Well PL-8		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 0.15	0.01	0.34	< 0.23	0.14	0.31	-	-	-	< 0.16	< 0.11	0.19
1996	< 0.14	< 0.11	0.18	< 0.17	< 0.10	< 0.21	-	-	-	< 0.11	< 0.10	< 0.12

	Well PL-1A **			Well PL-3A **			Well PL-5A **			Well PL-8A **		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	-	-	-	-	-	-	0.20	0.12	0.32	-	-	-
1996	-	-	-	-	-	-	< 0.14	< 0.11	0.17	-	-	-
1997	0.21	0.13	0.32	< 0.09	< 0.07	0.11	< 0.10	< 0.08	0.11	< 0.09	0.04	0.16
1998	< 0.12	< 0.08	0.16	< 0.09	0.07	0.14	< 0.11	< 0.09	0.14	< 0.08	< 0.07	0.10
1999	0.21	0.21	0.21	< 0.09	0.04	0.13	0.13	0.13	0.13	< 0.11	< 0.10	0.12
2000	-	-	-	< 0.09	< 0.06	0.11	-	-	-	< 0.07	< 0.05	0.08
2001	-	-	-	< 0.06	< 0.04	0.09	-	-	-	0.11	0.09	0.12
2002	-	-	-	0.06	0.05	0.10	-	-	-	-	-	-
2003	-	-	-	0.10	0.07	0.11	-	-	-	-	-	-
2004	-	-	-	0.09	0.07	0.12	-	-	-	-	-	-
2005	-	-	-	0.13	0.06	0.21	-	-	-	-	-	-

	Well PL-11A		
	Ave	Min	Max
1995	66.50	24.00	140.00
1996	40.00	22.00	53.00
1997	3.25	1.70	5.50
1998	2.32	0.96	3.80
1999	1.42	0.73	2.10
2000	0.25	0.16	0.32
2001	0.20	0.14	0.23
2002	0.97	0.59	1.51
2003	2.28	1.33	3.13
2004	1.47	0.66	3.45
2005	0.45	0.23	0.64

* Sampling taken for Gross Alpha and Beta for PL-1A, PL-3A, PL-5A, and PL-8A only when uranium concentration is greater than 0.02 mg/l

** Wells PL-#A Replaced wells PL-#

Exhibit E-33

Environmental Monitoring
Water Table Aquifer - Waste Treatment Facility
Uranium Concentration (ppm)*

Jan 95 through Dec 05

	WT-1			WT-2			WT-3			WT-4		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 0.19	0	0.53	0	0	0	0	0	0	0	0	0
1996	< 0.24	0	0.60	0	0	0	0	0	0	0	0	0
1997	0.14	0.07	0.24	0	0	0	0	0	0	0	0	0
1998	0.20	0.13	0.24	0	0	0	0	0	0	0	0	0
1999	0.16	0.10	0.22	0	0	0	0	0	0	0	0	0
2000	0.18	0.11	0.23	0	0	0	0	0	0	0	0	0
2001	0.09	0.06	0.11	0	0	0	0	0	0	0	0	0
2002	0.08	0.08	0.08	0	0	0	0	0	0	0	0	0
2003	0.11	0.06	0.18	0	0	0	0	0	0	0	0	0
2004	0.14	0.09	0.22	0	0	0	0	0	0	0	0	0
2005	< 0.33	0	0.96	0	0	0	0	0	0	0	0	0

	WT-5			WT-6			WT-7			WT-9		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	< 0.17	0	1.09	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	-	-	-
2002	0	0	0	0	0	0	0	0	0	-	-	-
2003	0	0	0	0	0	0	0	0	0	-	-	-
2004	0	0	0	0	0	0	0	0	0	-	-	-
2005	0	0	0	0	0	0	0	0	0	-	-	-

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.
WT-9 abandoned in 2001.

Exhibit E-34
Environmental Monitoring
Water Table Aquifer - Waste Treatment Facility
Activity Concentration *
Jan 95 through Dec 05

Gross Alpha (x 10 ^7 uCI/cc)

	WT-1			WT-2			WT-3			WT-4		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	4.54	1.30	10.00	< 0.07	< 0.04	0.17	< 0.06	< 0.04	0.09	< 0.07	< 0.04	0.19
1996	4.77	0.87	11.00	< 0.05	< 0.03	0.06	< 0.04	< 0.04	0.06	< 0.05	< 0.04	0.09
1997	1.52	0.31	2.20	< 0.04	< 0.02	0.05	< 0.04	< 0.02	0.04	< 0.03	< 0.02	< 0.04
1998	2.25	1.40	4.00	< 0.04	< 0.03	< 0.05	< 0.05	0.03	0.08	< 0.04	< 0.02	< 0.05
1999	1.78	1.60	1.90	< 0.05	< 0.03	< 0.07	< 0.12	0.04	< 0.30	< 0.06	0.04	0.07
2000	1.70	1.70	1.70	-	-	-	-	-	-	-	-	-
2001	1.10	1.00	1.20	< 0.15	< 0.02	0.27	< 0.04	0.01	< 0.06	0.06	0.02	0.10
2002	1.11	1.11	1.11	-	-	-	-	-	-	-	-	-
2003	2.30	2.30	2.30	-	-	-	-	-	-	-	-	-
2005	1.51	1.51	1.51	-	-	-	-	-	-	-	-	-

	WT-5			WT-6			WT-7			WT-9		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 0.06	< 0.04	0.12	< 0.07	< 0.04	0.21	< 0.05	< 0.04	0.05	< 0.07	< 0.04	0.25
1996	< 0.04	< 0.04	< 0.05	< 0.04	< 0.03	0.06	< 0.05	< 0.04	0.13	< 0.08	< 0.04	0.27
1997	< 0.03	< 0.01	< 0.04	< 0.04	< 0.02	< 0.06	< 0.04	< 0.02	< 0.04	< 0.06	< 0.02	0.14
1998	< 0.06	< 0.02	0.17	< 0.04	< 0.03	0.05	< 0.04	< 0.03	< 0.05	< 0.07	0.06	0.09
1999	< 0.05	< 0.04	< 0.06	< 0.05	0.04	0.07	< 0.17	< 0.03	0.53	< 0.25	0.12	< 0.30
2000	-	-	-	< 0.06	< 0.04	0.08	< 0.06	< 0.06	< 0.06	-	-	-
2001	< 0.08	< 0.07	0.08	< 0.05	0.03	0.07	< 0.02	0.02	< 0.03	-	-	-
2002	-	-	-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	-	-
2003	-	-	-	< 0.03	< 0.03	< 0.04	-	-	-	-	-	-
2004	-	-	-	< 0.04	< 0.04	0.05	-	-	-	-	-	-
2005	-	-	-	< 0.04	< 0.04	< 0.04	-	-	-	-	-	-

Note: WT-9 removed in 2001.
* Sampling taken for Gross Alpha and Beta only when uranium concentration is greater than 0.02 mg/l.

Exhibit E-34
Environmental Monitoring
Water Table Aquifer - Waste Treatment Facility
Activity Concentration *
Jan 95 through Dec 05

Gross Beta (x 10 ^7 uCI/cc)

	WT-1			WT-2			WT-3			WT-4		
	Ave	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max**
1995	1.34	0.47	2.80	< 0.18	< 0.11	0.36	< 0.13	< 0.11	< 0.30	< 0.14	< 0.11	0.22
1996	1.49	0.57	3.00	< 0.13	< 0.10	< 0.16	< 0.12	< 0.11	< 0.12	< 0.12	< 0.11	0.16
1997	0.63	0.13	0.77	< 0.09	0.02	< 0.26	< 0.08	0.02	0.15	< 0.07	0.03	< 0.10
1998	1.26	0.89	1.90	< 0.08	< 0.07	< 0.09	< 0.08	< 0.07	0.09	< 0.07	< 0.07	< 0.08
1999	0.82	0.59	0.95	< 0.08	< 0.06	< 0.10	< 0.09	< 0.07	< 0.10	< 0.08	< 0.07	0.08
2000	0.51	0.51	0.51	-	-	-	-	-	-	-	-	-
2001	0.34	0.31	0.36	< 0.07	< 0.03	0.11	< 0.07	0.03	< 0.10	< 0.07	0.03	< 0.10
2002	0.46	0.46	0.46	-	-	-	-	-	-	-	-	-
2003	0.58	0.58	0.58	-	-	-	-	-	-	-	-	-
2005	0.59	0.59	0.59	-	-	-	-	-	-	-	-	-

	WT-5			WT-6			WT-7			WT-9		
	Ave	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max**
1995	< 0.14	< 0.11	0.20	< 0.16	< 0.11	0.26	< 0.14	< 0.11	0.27	< 0.16	< 0.11	0.28
1996	< 0.13	< 0.11	0.20	< 0.20	< 0.11	0.89	< 0.13	< 0.11	0.20	< 0.15	< 0.11	0.28
1997	< 0.07	< 0.02	< 0.10	< 0.07	0.02	< 0.10	< 0.07	0.03	< 0.10	< 0.09	< 0.02	0.15
1998	< 0.08	< 0.07	< 0.09	< 0.08	< 0.07	< 0.08	< 0.07	< 0.07	< 0.08	< 0.13	< 0.08	0.27
1999	< 0.08	< 0.07	< 0.09	< 0.09	< 0.08	< 0.10	< 0.10	< 0.06	0.16	< 0.33	< 0.09	0.63
2000	-	-	-	< 0.10	< 0.10	< 0.10	< 0.08	< 0.08	< 0.08	-	-	-
2001	0.14	0.12	0.15	< 0.07	0.05	< 0.10	< 0.04	< 0.03	0.06	-	-	-
2002	-	-	-	0.04	0.04	0.04	< 0.03	< 0.03	< 0.03	-	-	-
2003	-	-	-	0.05	0.04	0.06	-	-	-	-	-	-
2004	-	-	-	0.05	0.04	0.06	-	-	-	-	-	-
2005	-	-	-	0.07	0.07	0.07	-	-	-	-	-	-

Note: WT-9 removed in 2001.
* Sampling taken for Gross Alpha and Beta only when uranium concentration is greater than 0.02 mg/l.

Exhibit E-35

Environmental Monitoring
Water Table Aquifer - Former Zirconium Sludge Storage Area
Uranium Concentration (ppm)*

Jan 95 through Dec 05

	Well ZC			Well ZD			Well ZE			Well ZG		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

Note: Wells ZC, ZD, ZE, ZG have been sealed and removed as of 1998.

Exhibit E-36

Environmental Monitoring
Water-Table Aquifer - Former Zirconium Sludge Storage Area
Activity Concentration

Jan 95 through Dec 05

Gross Alpha (x 10^7 uCi / cc)

	Well ZC			Well ZD			Well ZE			Well ZG		
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max
1995	< 0.05	< 0.04	0.07	< 0.06	< 0.04	0.11	< 0.05	< 0.04	0.07	< 0.06	< 0.04	0.15
1996	< 0.04	< 0.04	< 0.05	< 0.05	< 0.04	0.06	< 0.05	< 0.04	0.07	< 0.05	< 0.04	0.06
1997	< 0.05	< 0.02	0.14	< 0.04	< 0.02	< 0.06	< 0.04	< 0.02	< 0.07	< 0.04	< 0.02	< 0.05

Gross Beta (x 10^7 uCi / cc)

	Well ZC			Well ZD			Well ZE			Well ZG		
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max
1995	< 0.14	< 0.11	0.26	< 0.17	< 0.11	0.37	< 0.13	< 0.11	0.24	< 0.16	< 0.11	0.36
1996	< 0.13	< 0.11	0.23	< 0.12	< 0.11	0.17	< 0.13	< 0.11	0.19	< 0.13	< 0.11	0.19
1997	< 0.07	< 0.02	< 0.10	< 0.07	< 0.02	< 0.15	< 0.07	< 0.02	< 0.10	< 0.08	< 0.02	0.16

*** Well ZC, ZD, ZE, ZG have been removed as of 1998**

Exhibit E-37

Environmental Monitoring
Water Table Aquifer - Calcium Fluoride Sludge Storage Area
Uranium Concentration (ppm)

Jan 95 through Dec 05

	Well CaF-1			Well CaF-2			Well CaF-3			Well CaF-4		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	< 0.28	0	0.84	0	0	0	0	0	0
1997	-	-	-	< 0.14	0	0.58	-	-	-	-	-	-

Note: Wells CaF-1, CaF-3, and CaF-4 have been sealed and removed in 1996. Well CaF-2 was sealed and removed in 1997.

Exhibit E-38

Environmental Monitoring
Water Table Aquifer - Calcium Fluoride Sludge Storage Area
Activity Concentration (ppm)

Jan 95 through Dec 05

Gross Alpha (x 10^-7 uCi / cc)

	Well CaF-1			Well CaF-2			Well CaF-3			Well CaF-4		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 4.65	< 4.50	< 4.80	< 4.73	< 4.00	< 7.50	< 4.43	< 4.00	4.90	< 4.80	< 4.40	5.50
1996	< 4.70	< 4.70	< 4.70	< 4.40	< 4.40	< 4.40	< 4.90	< 4.90	< 4.90	< 4.10	< 4.10	< 4.10

Gross Beta (x 10^-7 uCi / cc)

	Well CaF-1			Well CaF-2			Well CaF-3			Well CaF-4		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 12.25	< 11.00	13.00	< 16.50	< 11.00	25.00	< 13.00	< 11.00	16.00	< 12.00	< 11.00	15.00
1996	< 11.00	< 11.00	< 11.00	< 11.00	< 11.00	< 11.00	< 11.00	< 11.00	< 11.00	< 11.00	< 11.00	< 11.00

Note: Wells CaF-1, CaF-3, and CaF-4 have been sealed and removed in 1996. Well CaF-2 was sealed and removed in 1997.

Exhibit E-39
Environmental Monitoring
Soil
Uranium Concentration (ppm)

Jan 95 through Dec 05

	Sample Location #1			Sample Location #1A			Sample Location #2			Sample Location #3		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	1.53	0.29	5.49	7.34	2.31	10.27	1.63	0.88	2.81	0.46	0.33	0.64
1996	1.48	0.09	4.87	9.49	2.99	15.98	0.61	0.23	0.89	0.26	0.18	0.40
1997	0.66	0.08	1.97	2.66	1.66	4.26	0.85	0.53	1.51	0.50	0.15	1.35
1998	0.67	0.56	0.77	3.87	3.34	4.40	0.73	0.62	0.83	0.38	0.24	0.52
1999	0.24	0.12	0.36	1.66	0.46	2.86	1.28	0.99	1.57	0.54	0.45	0.64
2000	< 0.87	0.09	2.42	0.86	0.33	1.38	1.62	1.14	2.10	0.44	0.43	0.45
2001	0.73	0.22	1.24	1.73	0.65	2.81	0.87	0.46	1.29	0.56	0.52	0.59
2002	0.50	0.23	0.77	2.48	0.10	4.86	0.33	0.08	0.58	0.26	0.25	0.26
2003	2.53	2.23	2.83	8.06	7.91	8.21	20.46	1.32	39.60	0.30	0.19	0.40
2004	0.39	0.32	0.46	2.79	2.15	3.43	1.56	0.53	2.60	0.14	0.10	0.18
2005	3.99	0.71	7.27	1.72	1.62	1.81	0.31	0.20	0.42	0.16	0.15	0.18

	Sample Location #4			Sample Location #5			Sample Location #6			Sample Location #7		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	0.26	0.19	0.42	0.58	0.35	0.82	0.19	0.10	0.40	0.45	0.23	0.85
1996	0.36	0.14	0.68	0.33	0.06	0.68	0.21	0.11	0.51	0.83	0.35	2.02
1997	0.41	0.32	0.65	0.42	0.24	0.61	0.16	0.05	0.33	0.77	0.50	1.21
1998	0.38	0.33	0.43	0.29	0.07	0.72	0.17	0.06	0.47	0.75	0.59	0.91
1999	0.32	0.29	0.34	0.23	0.19	0.28	0.13	0.04	0.24	0.94	0.09	1.78
2000	0.31	0.30	0.31	0.07	0.03	0.10	0.14	0.04	0.21	0.49	0.49	0.49
2001	0.63	0.52	0.74	0.29	0.26	0.31	0.35	0.17	0.61	-	-	-
2002	0.40	0.35	0.45	0.15	0.12	0.18	0.27	0.12	0.41	-	-	-
2003	0.20	0.12	0.29	0.38	0.35	0.43	0.36	0.05	0.71	-	-	-
2004	0.29	0.28	0.30	0.41	0.40	0.43	0.53	0.29	1.16	-	-	-
2005	0.24	0.21	0.28	-	-	-	0.48	0.17	1.12	-	-	-

Note: Discontinued Sample Locations 8, 12, 13, 15, 16, 17, 18, 20, and 21 in 1998, Sample Location 7 in 2001, and Sample Location 5 in 2005.

Refer to Exhibit E-13 for sample locations.

Exhibit E-39
Environmental Monitoring
Soil
Uranium Concentration (ppm)

Jan 95 through Dec 05

	Sample Site #8			Sample Site #11			Sample Site #12			Site Sample #13		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	0.27	0.20	0.32	0.43	0.13	1.53	0.83	0.52	1.57	0.27	0.08	0.46
1996	0.34	0.24	0.51	0.38	0.12	0.93	0.48	0.10	0.77	0.20	0.14	0.31
1997	0.65	0.28	1.04	0.68	0.24	1.18	0.41	0.31	0.45	0.18	0.14	0.24
1999	-	-	-	0.79	0.71	0.86	-	-	-	-	-	-
2000	-	-	-	1.46	1.16	1.75	-	-	-	-	-	-
2001	-	-	-	0.42	0.38	0.47	-	-	-	-	-	-
2002	-	-	-	0.71	0.31	1.11	-	-	-	-	-	-
2003	-	-	-	0.39	0.29	0.50	-	-	-	-	-	-
2004	-	-	-	1.66	0.45	2.86	-	-	-	-	-	-
2005	-	-	-	0.39	0.35	0.44	-	-	-	-	-	-

	Sample Site #15			Sample Site #16			Sample Site #17			Sample Site #18		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	0.37	0.10	0.66	0.13	0.07	0.21	0.47	0.42	0.58	0.25	0.16	0.39
1996	0.41	0.25	0.62	0.15	0.07	0.19	0.34	0.15	0.61	0.34	0.19	0.48
1997	0.81	0.59	0.96	0.26	0.16	0.39	0.56	0.24	1.14	0.22	0.14	0.31

	Sample Site #20			Sample Site #21		
	Ave	Min	Max	Ave	Min	Max
1995	9.55	1.40	25.26	3.21	1.55	6.03
1996	15.48	3.27	22.99	4.92	2.11	9.57
1997	16.10	6.64	42.50	3.97	1.59	8.99

Note: Discontinued Sample Locations 8, 12, 13, 15, 16, 17, 18, 20, and 21 in 1998, Sample Location 7 in 2001, and Sample Location 5 in 2005.

Refer to Exhibit E-13 for sample locations.

Exhibit E-40

Environmental Monitoring
Sediment In Effluent Channel
Uranium Concentration (ppm)

Jan 95 through Dec 05

	DD04 (Lagoon Outfall)			DD06 (Below Dam)		
	Ave	Min	Max	Ave	Min	Max
1995	10.51	10.51	10.51	3.86	3.86	3.86
1996	3.42	3.08	3.75	5.02	2.92	7.11
1997	32.62	10.46	64.57	4.64	1.40	11.10

	DD05 / SD02 (Above Dam)			DD07 (Swamp Entrance)		
	Ave	Min	Max	Ave	Min	Max
1995	12.38	12.38	12.38	5.89	5.89	5.89
1996	5.69	3.14	8.24	5.44	5.44	5.44
1997	28.87	2.25	76.53	3.41	1.76	4.87
1998	0.36	0.34	0.38	5.97	0.13	11.81
1999	1.02	0.16	1.88	1.19	0.30	2.07
2000	3.49	1.54	5.44	1.94	1.83	2.04
2001	1.76	1.07	2.44	3.10	3.05	3.15
2002	1.24	1.03	1.45	3.46	2.05	4.87
2003	0.88	0.59	1.18	16.41	1.26	46.40
2004	2.31	1.31	3.31	2.57	1.39	3.74
2005	32.02	1.92	90.60	1.82	1.54	2.10

Note: Sample Locations DD04 and DD06 discontinued after 1997

Exhibit E-41

Environmental Monitoring Nitrate Shipments To Local Paper Company

Jan 95 through Dec 05

International Paper canal sludge

	Gross Alpha (x 10^-7 uCi/cc)			Gross Beta (x 10^-7 uCi/cc)			Uranium Content (ppm)		
	Avg	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 0.10	< 0.09	0.12	< 0.18	< 0.08	0.23	0.32	0.11	0.47
1996	0.09	0.06	0.12	0.17	0.14	0.19	0.30	0.12	0.49
1997	< 0.06	< 0.03	0.10	0.16	0.11	0.20	0.44	0.32	0.50
1998	< 0.05	< 0.04	0.06	0.14	0.07	0.21	0.71	0.51	1.14
1999	< 0.07	< 0.05	0.10	0.16	0.08	0.21	0.68	0.17	1.40
2000	< 0.07	< 0.04	0.13	0.20	0.15	0.24	0.42	0.28	0.66
2001	< 0.06	< 0.05	0.07	0.17	0.11	0.25	0.55	0.48	0.63

Nitrate shipments discontinued after 2001

International Paper clarifier sludge

	Gross Alpha (x 10^-7 uCi/cc)			Gross Beta (x 10^-7 uCi/cc)			Uranium Content (ppm)		
	Avg	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 0.07	< 0.05	0.10	0.22	0.10	0.28	0.59	0.06	1.50
1996	< 0.07	< 0.06	0.08	0.17	0.16	0.17	0.40	0.23	0.47
1997	< 0.05	< 0.03	< 0.06	0.11	0.05	0.22	0.17	0.12	0.27
1998	< 0.06	< 0.01	0.13	0.18	0.04	0.34	0.52	0.19	0.86
1999	< 0.04	< 0.01	0.06	0.10	0.02	0.16	1.00	0.27	2.20
2000	< 0.05	< 0.04	0.07	0.19	0.11	0.25	1.18	0.28	1.77
2001	< 0.05	< 0.04	0.07	0.17	0.10	0.25	0.78	0.61	1.00

Nitrate shipments discontinued after 2001

Exhibit E-41

Environmental Monitoring Nitrate Shipments To Local Paper Company

Jan 95 through Dec 05

International Paper north basin liquid

	Gross Alpha (x 10^-7 uCi/cc)			Gross Beta (x 10^-7 uCi/cc)			Uranium Content (ppm)		
	Avg	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 0.29	0.22	0.40	0.56	0.34	0.76	-	-	-
1996	0.20	0.19	0.21	< 0.39	< 0.34	< 0.43	-	-	-
1997	< 0.18	< 0.03	< 0.30	0.43	0.04	0.62	-	-	-
1998	< 0.20	< 0.10	< 0.30	0.50	0.36	0.60	0.21	0.10	0.34
1999	< 0.25	< 0.09	< 0.30	0.44	0.13	0.62	-	-	-
2000	< 0.27	< 0.20	< 0.30	0.63	0.36	1.10	-	-	-
2001	< 0.20	< 0.10	< 0.30	0.63	0.42	0.78	-	-	-

Nitrate shipments discontinued after 2001

International Paper north basin sludge (liquid for NH3/NO3)

	Gross Alpha (x 10^-7 uCi/cc)			Gross Beta (x 10^-7 uCi/cc)			Uranium Content (ppm)		
	Avg	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 0.10	0.08	0.12	0.15	0.09	0.32	0.41	0.22	0.72
1996	< 0.08	< 0.07	0.08	0.14	0.07	0.20	0.78	0.11	2.02
1997	< 0.04	< 0.02	< 0.06	0.08	0.05	0.11	0.34	0.11	0.94
1998	< 0.05	< 0.03	0.09	< 0.07	< 0.02	0.17	-	-	-
1999	< 0.06	< 0.03	0.09	0.10	0.07	0.15	0.10	0.08	0.15
2000	< 0.04	< 0.04	< 0.05	0.08	0.06	0.11	0.11	0.04	0.17
2001	< 0.04	< 0.04	< 0.05	0.06	0.05	0.07	0.15	0.11	0.17

Nitrate shipments discontinued after 2001

Exhibit E-41

Environmental Monitoring Nitrate Shipments To Local Paper Company

Jan 95 through Dec 05

International Paper new bay liquid

	Gross Alpha (x 10^-7 uCi/cc)			Gross Beta (x 10^-7 uCi/cc)			Uranium Content (ppm)		
	Avg	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 0.23	< 0.18	< 0.29	< 0.74	< 0.39	1.30	-	-	-
1996	< 0.19	0.15	< 0.23	0.46	0.43	0.49	-	-	-
1997	< 0.25	< 0.10	< 0.40	0.64	0.45	0.84	-	-	-
1998	< 0.20	< 0.20	< 0.20	0.62	0.42	0.88	0.39	0.04	0.73
1999	< 0.27	< 0.09	< 0.50	< 0.43	0.28	0.51	-	-	-
2000	< 0.23	< 0.20	< 0.30	0.75	0.37	1.40	-	-	-
2001	< 0.23	< 0.10	< 0.40	0.57	0.44	0.73	-	-	-

Nitrate shipments discontinued after 2001

International Paper new bay sludge (liquid for NH3/NO3)

	Gross Alpha (x 10^-7 uCi/cc)			Gross Beta (x 10^-7 uCi/cc)			Uranium Content (ppm)		
	Avg	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	0.20	0.13	0.25	0.21	0.16	0.29	0.75	0.22	1.59
1996	0.21	0.19	0.22	0.16	0.14	0.18	0.51	0.05	0.88
1997	0.08	0.04	0.10	0.16	0.14	0.19	0.61	0.24	1.28
1998	0.09	0.05	0.11	0.12	0.10	0.14	-	-	-
1999	0.08	0.06	0.11	0.18	0.16	0.20	0.48	0.24	0.84
2000	0.07	0.04	0.10	0.14	0.11	0.15	0.48	0.09	0.86
2001	0.06	0.04	0.08	0.13	0.10	0.18	1.69	0.59	3.90

Nitrate shipments discontinued after 2001

Exhibit E-41

Environmental Monitoring Nitrate Shipments To Local Paper Company

Jan 95 through Dec 05

Nitrate tanker to International Paper - quarterly composite

	Gross Alpha (x 10^-7 uCi/cc)			Gross Beta (x 10^-7 uCi/cc)			Uranium Content (ppm)		
	Avg	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	7.63	4.30	13.00	2.68	2.00	3.10	-	-	-
1996	4.30	2.90	5.70	1.10	1.10	1.10	-	-	-

For years after 1996, refer to Exhibit E-23 for the data

International Paper river - downstream

	Gross Alpha (x 10^-7 uCi/cc)			Gross Beta (x 10^-7 uCi/cc)			Uranium Content (ppm)		
	Avg	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 0.12	< 0.08	< 0.16	< 0.23	< 0.20	< 0.28	-	-	-
1996	< 0.08	0.05	< 0.10	< 0.21	< 0.21	< 0.21	-	-	-
1997	< 0.08	< 0.03	0.12	< 0.08	0.03	< 0.10	-	-	-
1998	< 0.08	< 0.03	< 0.10	< 0.09	< 0.07	< 0.10	-	-	-
1999	< 0.14	< 0.07	< 0.30	< 0.11	< 0.06	< 0.20	-	-	-
2000	< 0.06	< 0.04	< 0.08	< 0.13	< 0.10	< 0.20	-	-	-
2001	< 0.27	< 0.02	< 0.60	< 0.22	0.05	< 0.40	-	-	-

Nitrate shipments discontinued after 2001

Exhibit E-41

Environmental Monitoring Nitrate Shipments To Local Paper Company

Jan 95 through Dec 05

International Paper river - upstream

	Gross Alpha (x 10^-7 uCi/cc)			Gross Beta (x 10^-7 uCi/cc)			Uranium Content (ppm)		
	Avg	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max**
1995	< 0.09	< 0.07	< 0.11	< 0.32	< 0.19	0.61	-	-	-
1996	< 0.07	< 0.05	< 0.09	< 0.21	< 0.21	< 0.21	-	-	-
1997	< 0.11	< 0.03	< 0.30	< 0.28	< 0.07	0.87	-	-	-
1998	< 0.07	< 0.05	< 0.10	< 0.18	< 0.09	0.43	-	-	-
1999	< 0.24	< 0.04	< 0.50	< 0.19	< 0.04	< 0.50	-	-	-
2000	< 0.07	< 0.04	< 0.08	< 0.13	< 0.10	< 0.20	-	-	-
2001	< 0.18	< 0.05	< 0.30	< 0.15	< 0.05	< 0.20	-	-	-

Nitrate shipments discontinued after 2001

Exhibit E-42

Environmental Monitoring
Effluent Monitoring
Fluoride Discharges to Atmosphere
Fuel Manufacturing Operation

Jan 95 through Dec 05

Year	Total Fluoride Discharged (grams)	Total Air Volume Discharged Per Year (* 10^15 cc)	Average Fluoride Concentration (micrograms/m^3)
1995	2,083	0.26	0.80
1996	1,642	1.45	0.11
1997	2,350	1.60	0.15
1998	3,042	1.66	0.18
1999	3,296	1.59	0.21
2000	2,388	1.56	0.15
2001	1,813	1.55	0.12
2002	1,383	1.54	0.09
2003	1,466	1.58	0.09
2004	2,292	1.40	0.16
2005	1,505	1.32	0.11

Exhibit E-43

Effluent Monitoring - NPDES Permit
Final Process Basin Effluent

Jan 95 through Dec 05

	Total Volume (10^3 gallons/day)		pH Range (units)		Temperature (degrees C)			Fluoride (ppm)		
	Ave	Max	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	660	989	6.0	9.0	22.3	9.0	32.0	< 1.97	< 1.00	3.25
1996	599	920	6.0	9.0	21.6	8.0	32.0	< 2.00	< 1.00	3.99
1997	562	827	6.0	9.0	22.0	6.0	34.0	< 2.09	< 1.00	4.56
1998	515	858	6.4	8.8	22.5	8.3	35.0	< 1.76	< 1.00	3.04
1999	459	879	6.7	8.7	21.0	3.6	32.2	< 1.45	< 1.00	2.27
2000	437	644	6.8	8.8	20.9	4.7	30.8	2.32	2.22	2.43
2001	445	900	6.4	9.0	21.7	6.0	31.2	2.27	1.94	3.29
2002	442	731	7.0	8.7	21.5	5.8	31.8	1.91	0.80	2.66
2003	478	778	6.9	8.7	20.8	6.3	30.9	1.79	1.16	2.44
2004	489	700	6.5	9.2	20.9	6.5	33.2	2.23	1.91	2.67
2005	506	892	6.2	8.9	21.2	6.9	31.8	2.30	1.80	3.55

	Ammonia (ppm)			Nitrite (ppm)			Nitrate (ppm)			Copper (ppm)		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 5.40	< 0.40	15.28	3.98	0.48	11.54	17.67	7.44	48.42	< 0.016	< 0.010	< 0.158
1996	3.74	0.45	13.83	4.94	0.00	10.26	13.10	0.00	25.47	< 0.015	< 0.010	0.078
1997	4.29	0.68	8.79	4.95	1.37	10.71	12.97	1.29	26.77	< 0.020	< 0.010	0.271
1998	< 3.24	< 0.40	7.90	3.60	0.82	10.68	12.19	5.77	63.36	< 0.016	< 0.010	0.043
1999	3.88	0.93	8.21	2.82	0.97	9.58	8.81	1.86	51.90	0.150	0.150	0.150
2000	4.08	2.92	7.80	5.36	0.99	12.30	8.13	1.91	13.60	< 0.025	< 0.025	0.041
2001	< 2.50	< 0.50	6.65	3.11	3.11	7.62	20.00	20.00	33.70	< 0.026	< 0.025	0.037
2002	< 0.93	< 0.50	2.54	< 0.73	0.12	2.25	< 4.21	< 0.20	19.50	< 0.027	< 0.025	0.062
2003	< 0.79	< 0.47	2.71	< 1.18	< 0.10	10.70	< 18.45	< 0.21	74.20	< 0.025	< 0.025	0.036
2004	0.85	0.67	11.00	7.93	7.93	8.41	21.82	0.32	63.90	< 0.026	< 0.025	0.039
2005	< 0.92	< 0.51	5.68	< 1.15	< 0.10	3.12	8.18	0.35	21.90	< 0.025	< 0.025	< 0.025

Exhibit E-43

Effluent Monitoring - NPDES Permit
Final Process Basin Effluent

Jan 95 through Dec 05

	Nickel (ppm)			Chromium (ppm)			Titanium (ppm) *		
	Ave	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max**
1995	< 0.022	< 0.010	< 0.158	< 0.023	0.003	0.178	< 0.010	< 0.010	0.014
1996	< 0.014	< 0.010	0.035	< 0.011	< 0.010	0.040	-	-	-
1997	< 0.015	< 0.010	0.050	< 0.012	< 0.010	0.040	-	-	-
1998	< 0.014	< 0.010	0.185	< 0.011	< 0.010	0.022	-	-	-
1999	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
2000	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	-	-	-
2001	< 0.025	< 0.025	0.028	< 0.026	< 0.025	0.040	-	-	-
2002	< 0.025	< 0.025	0.033	< 0.025	< 0.025	< 0.025	-	-	-
2003	< 0.026	< 0.025	0.071	< 0.028	< 0.025	0.133	-	-	-
2004	< 0.027	< 0.025	0.036	< 0.035	< 0.025	0.065	-	-	-
2005	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	-	-	-

* Baseline Monitoring performed in years 1995 and 1999.

	Chloride (ppm)			Sulfate (ppm)			Phosphorus (ppm)		
	Ave	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max**
1995	196	89	286	193	88	349	0.18	0.08	0.37
1996	213	10	326	237	111	355	0.18	0.06	0.71
1997	291	186	417	290	140	434	0.18	0.10	0.26
1998	218	91	351	176	115	278	0.22	0.11	0.35
1999	268	190	461	180	94	250	0.33	0.26	0.40
2000	218	149	354	129	98	169	0.18	0.12	0.32
2001	181	158	203	116	91	140	0.13	0.07	0.21
2002	-	-	-	-	-	-	0.14	0.10	0.19
2003	-	-	-	-	-	-	0.22	0.03	0.61
2004	-	-	-	-	-	-	0.20	0.04	0.37
2005	-	-	-	-	-	-	0.80	0.80	0.80

Exhibit E-43

Effluent Monitoring - NPDES Permit
Final Process Basin Effluent

Jan 95 through Dec 05

	Total Suspended Solids (ppm)			Total Dissolved Solids (ppm)			Total Solids (ppm)		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 11	< 10	27	721	444	1216	694	425	893
1996	< 11	< 10	27	684	572	902	745	583	988
1997	< 11	< 10	28	696	484	834	765	486	938
1998	< 10	< 10	19	667	530	806	694	555	881
1999	< 11	< 10	32	756	536	892	782	547	962
2000	< 11	< 10	33	613	482	718	661	530	768
2001	< 10	< 10	20	405	224	586	437	238	636
2002	< 10	< 10	25	-	-	-	-	-	-
2003	< 11	< 10	26	-	-	-	-	-	-
2004	< 11	< 10	30	-	-	-	-	-	-
2005	< 11	< 10	24	-	-	-	-	-	-

	Biochemical Oxygen Demand (ppm)			Chemical Oxygen Demand (ppm)			Alkalinity (ppm as CaCO3)		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 9	< 2	27	< 61	< 10	157	88	25	159
1996	9	2	42	38	24	82	82	35	119
1997	10	3	26	43	21	83	84	53	122
1998	9	3	20	37	9	67	88	40	159
1999	13	4	58	45	16	88	134	59	221
2000	< 15	4	57	60	23	104	138	45	203
2001	9	3	32	32	25	39	161	149	172
2002	< 7	< 2	41	-	-	-	-	-	-
2003	7	2	18	-	-	-	-	-	-
2004	7	2	20	-	-	-	0	0	0
2005	< 6	< 2	24	-	-	-	-	-	-

Exhibit E-44

FINAL PROCESS BASIN EFFLUENT BIO-MONITORING*

	Results
1995	Pass
1996	Pass
1997	Pass
1998	Pass
1999	Pass
2000	Pass
2001	Pass
2002	Pass
2003	Pass
2004	Pass
2005	Pass

* Acute Test @ 90% concentration (Fathead Minnow) – Quarterly Testing.

Exhibit E-45

Effluent Monitoring Sanitary Waste Water Treatment System Effluent

Jan 95 through Dec 05

	Volume (10^3 gallons / day)			Biochemical Oxygen Demand (mg/l)			Chemical Oxygen Demand (mg/l)			pH (units)	
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Min	Max
1995	33708	6270	60000	18	2	58	< 84	< 10	180	7.0	8.0
1996	34775	5570	69640	< 12	< 1	45	< 43	< 10	110	7.0	8.0
1997	36579	9550	87300	< 5	2	38	< 34	< 10	260	7.0	8.0
1998	35814	11300	74700	< 7	< 2	18	36	14	94	6.9	7.4
1999	28057	5100	161900	< 3	< 2	15	33	10	110	6.8	7.1
2000	25110	2000	75000	< 3	< 2	14	< 39	< 10	380	6.8	7.1
2001	21106	2750	50900	< 3	< 2	14	< 642	< 10	2500	6.5	7.0
2002	21769	3800	38700	< 9	< 0	15	< 148	4	584	6.0	7.6
2003	23661	2800	61400	< 3	< 2	7	< 32	< 5	46	6.0	7.5
2004	24205	1000	50300	< 3	< 1	21	-	-	-	6.2	7.1
2005	25773	5000	76700	< 2	< 2	6	-	-	-	6.3	7.1

	Total Ammonia Nitrogen (mg/l)			Total Suspended Solids (mg/l)		
	Ave	Min	Max	Ave	Min	Max
1995	-	-	-	< 14	< 1	40
1996	-	-	-	< 11	< 1	48
1997	< 4.9	< 0.1	7.2	< 4	< 1	27
1998	10.1	0.4	26.0	< 6	< 1	41
1999	< 5.4	< 0.1	25.0	< 4	< 1	21
2000	4.5	0.1	13.0	< 4	< 1	17
2001	< 5.1	< 0.1	13.6	< 4	1	12
2002	3.0	0.0	24.9	< 9	< 1	45
2003	< 0.3	< 0.1	3.0	< 2	< 1	7
2004	< 1.0	< 0.1	34.0	< 3	< 1	13
2005	< 0.1	< 0.0	0.6	< 3	< 3	12

Exhibit E-46

Treated Process Wastewater Discharges to Northeast Cape Fear River
Results Summarized by Year with comparison with NPDES Permit Conditions

Jan 95 through Dec 05

		NPDES Permit Limits	Jan 95 - Aug 96		NPDES Permit Limits	Sep 96 - Mar 04									NPDES Permit Limits	Apr 04 - Dec 05	
Parameters		1/95 - 8/96	1995	1996	9/96 - 3/04	1996	1997	1998	1999	2000	2001	2002	2003	2004	4/04 - 12/05	2004	2005
Fluoride	Daily Max	63.0	18	23	62.4	12	24	14	9	9	13	10	13	15	45.0	12	14
(pounds/day)	Monthly Avg	33.0	<10	<12	31.9	<8	<10	<8	<5	<6	<7	<7	<7	<9	23.0	<10	<10
Nitrogen	Daily Max	247	109	65	265	50	65	69	53	51	38	21	66	72	183	53	43
(total combined nitrogen in ammonia, nitrate & nitrite) (pounds/day)	Monthly Avg	156	50	42	132	32	38	28	23	25	19	7	21	52	86	20	13
Chromium	Daily Max	4.09	0.9	0.1	7.54	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.4	0.3	4.49	0.1	0.1
(pounds/day)	Monthly Avg	2.50	<0.1	<0.1	4.62	<0.0	<0.1	<0.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	2.41	<0.1	<0.1
Copper	Daily Max	4.85	0.9	0.2	9.02	0.3	0.2	0.2	0.5	0.2	0.2	0.3	0.1	0.2	5.34	0.1	0.1
(pounds/day)	Monthly Avg	2.97	<0.1	<0.1	5.52	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.86	<0.1	<0.1
Nickel	Daily Max	6.21	0.9	0.2	11.30	0.2	0.2	0.7	0.1	0.1	0.1	0.2	0.2	0.1	6.79	0.1	0.1
(pounds/day)	Monthly Avg	3.74	<0.1	<0.1	6.77	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.63	<0.1	<0.1
Volume																	
(1,000 gallons/day)	Monthly Avg	1,800	660	603	1,800	589	562	515	459	437	445	442	478	492	1,800	488	506
pH	Min	6.0	6.0	6.0	6.0	6.0	6.0	6.4	6.7	6.8	6.4	7.0	6.9	6.7	6.0	6.5	6.2
	Max	9.0	9.0	9.0	9.0	9.0	9.0	8.8	8.7	8.8	9.0	8.7	8.7	8.8	9.0	8.3	8.9

Exhibit E-47

Treated Sanitary Wastewater Discharges to Northeast Cape Fear River

Jan 95 through Dec 05

Parameters		NPDES Permit Limits	Actual results summarized by Year										
			1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Biochemical Oxygen Demand	Daily Max	45	58	45	38	18	15	14	14	15	7	21	6
(parts per million)	Monthly Avg	30	<18	<12	<5	<7	<3	<3	<3	<9	<3	<3	<2
Total Suspended Solids	Daily Max	45	40	48	27	17	21	17	12	45	7	13	12
(parts per million)	Monthly Avg	30	<14	<11	<4	<5	<4	<4	<4	<9	<2	<3	<3
Volume													
(1,000 gallons/day)	Monthly Avg	75	34	35	37	35	28	25	21	22	24	24	26
pH	Min	6.0	7.0	7.0	7.0	6.8	6.7	6.7	6.5	6.0	5.9	6.2	6.3
	Max	9.0	8.0	8.0	8.0	7.4	7.1	7.1	7.0	7.6	7.5	7.1	7.1

Exhibit E-48

Effluent Monitoring
Nitrate Shipments To Local Paper Company
Characteristics

Jan 95 through Dec 05

	Total Volume (gallons)	pH Range (units)		Ammonia (ppm)			Nitrate (ppm)		
		Min	Max	Ave	Min	Max	Ave	Min	Max
1995	9,600,100	6.9	8.2	897	450	1,538	17,902	7,156	33,938
1996	11,775,700	6.2	9.3	782	206	1,925	15,520	4,765	35,736
1997	8,137,000	6.2	9.5	873	356	1,598	19,185	35	29,749
1998	12,127,500	6.5	9.4	596	130	1,084	17,972	6,087	30,031
1999	12,209,500	6.3	12.0	287	140	677	13,708	7,230	22,600
2000	9,127,000	5.6	10.4	351	214	570	16,238	8,850	25,400
2001	4,915,000	6.3	7.8	244	18	451	21,890	5,790	33,100

	Chromium (ppm)			Copper (ppm)			Nickel (ppm)			Fluoride (ppm)		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 0.01	0.00	0.02	< 0.02	< 0.01	0.07	< 0.22	< 0.01	0.48	3.60	2.65	5.57
1996	< 0.01	0.00	0.03	< 0.01	0.00	0.03	< 0.20	0.00	0.58	3.55	2.07	7.68
1997	< 0.01	0.00	0.06	< 0.02	0.01	0.07	< 0.26	< 0.02	0.45	3.68	1.60	5.35
1998	< 0.02	< 0.01	0.04	< 0.02	< 0.01	0.05	0.22	0.01	0.35	4.16	1.96	6.37
1999	< 0.03	< 0.03	0.04	< 0.03	< 0.03	0.11	< 0.23	< 0.03	0.61	4.23	2.55	6.88
2000	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.03	< 0.08	0.00	0.26	2.95	1.60	4.63
2001	< 0.03	< 0.03	0.33	< 0.03	< 0.03	0.04	< 0.03	< 0.03	0.04	< 1.56	< 0.03	2.30

Note: Nitrate Shipments were discontinued in September 2001.

Exhibit E-49

Environmental Monitoring
Site Dam

Jan 95 through Dec 05

	pH Range (units)		Ammonia (ppm)			Nitrate (ppm)		
	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	6.51	8.15	5.32	0.83	12.49	12.17	4.80	34.69
1996	6.50	8.85	4.49	0.43	17.28	9.29	0.00	23.14
1997	6.55	8.87	4.39	0.47	9.19	11.64	4.02	76.19
1998	6.29	8.80	3.30	0.61	6.70	10.43	5.03	66.76
1999	6.59	8.39	< 2.89	< 0.40	7.70	7.89	1.21	26.70
2000	6.39	8.45	3.61	0.59	6.80	7.13	2.00	18.30
2001	8.26	9.33	< 2.65	< 1.22	6.92	< 8.74	< 0.43	23.70
2002	7.68	12.50	< 2.67	< 0.50	67.50	< 5.59	< 0.20	19.60
2003	7.22	8.43	< 0.76	< 0.47	3.03	13.59	1.39	40.80
2004	6.41	8.38	< 0.79	< 0.51	2.13	21.70	0.37	51.70
2005	6.10	8.42	< 0.69	< 0.51	1.87	13.43	0.36	57.40

	Fluoride (ppm)			Chromium (ppm)			Copper (ppm)			Nickel (ppm)		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.44	< 1.00	3.72	< 0.01	< 0.01	0.10	< 0.01	< 0.01	0.02	< 0.02	< 0.01	0.05
1996	< 1.48	< 1.00	3.15	< 0.01	< 0.01	0.03	< 0.01	< 0.01	0.02	< 0.01	< 0.01	0.03
1997	< 1.61	< 1.00	4.77	< 0.01	< 0.01	0.05	< 0.02	< 0.01	0.05	< 0.02	0.01	0.05
1998	< 1.28	< 1.00	2.63	< 0.01	< 0.01	0.03	< 0.01	< 0.01	0.03	< 0.02	< 0.01	0.04
1999	< 1.05	< 1.00	1.88	< 0.02	< 0.01	< 0.03	< 0.03	< 0.01	0.07	< 0.02	< 0.01	< 0.03
2000	< 1.16	0.69	2.14	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
2001	1.34	0.69	2.35	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
2002	< 1.52	< 0.50	2.27	0.03	0.03	0.03	0.12	0.12	0.12	< 0.03	< 0.03	< 0.03
2003	1.13	0.57	2.00	-	-	-	-	-	-	-	-	-
2004	1.50	0.54	2.23	-	-	-	-	-	-	-	-	-
2005	1.53	0.75	2.46	-	-	-	-	-	-	-	-	-

Note: 2003 sampling discontinued for Chromium, Copper, and Nickel

Exhibit E-50

Environmental Monitoring
Northeast Cape Fear River - Upstream

Jan 95 through Dec 05

	pH Range (units)		Ammonia (ppm)			Nitrate (ppm)			Fluoride (ppm)		
	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	5.78	8.01	1.78	1.14	2.53	1.53	1.15	1.89	< 1.00	< 1.00	< 1.00
1996	5.68	7.95	1.54	0.95	1.99	1.57	1.01	1.94	< 1.00	< 1.00	< 1.00
1997	5.87	7.74	1.36	0.86	1.97	1.77	1.26	2.35	< 1.00	< 1.00	< 1.00
1998	5.02	7.70	1.50	0.96	2.19	1.32	0.62	2.11	< 1.00	< 1.00	< 1.00
1999	5.46	7.74	1.66	1.19	2.20	1.43	1.07	2.13	< 1.00	< 1.00	< 1.00
2000	6.29	9.60	1.79	1.33	2.49	2.42	0.73	5.09	< 1.00	< 1.00	< 1.00
2001	6.02	9.84	1.40	1.29	1.60	1.19	0.51	1.76	< 0.50	< 0.50	< 0.50
2002	5.97	7.90	1.19	0.65	1.84	0.82	0.57	1.03	< 0.50	< 0.50	< 0.50
2003	5.95	8.82	1.81	1.52	2.04	1.95	0.75	3.27	< 0.50	< 0.50	< 0.50
2004	5.15	8.66	1.42	0.78	2.05	1.52	0.93	2.83	< 0.50	< 0.50	< 0.50
2005	6.22	7.41	1.52	0.63	1.96	< 1.21	< 0.20	2.21	< 0.50	< 0.50	< 0.50

	Temperature (Degree C)			Dissolved Oxygen (ppm)			Biochemical Oxygen Demand (mg/l)			Fecal Coliform (mf/100ml)		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	18	2	30	4.53	0.90	10.40	2.73	1.00	4.50	31	25	44
1996	18	1	28	4.02	0.00	8.40	< 5.50	< 2.00	9.00	112	106	118
1997	19	4	29	6.20	3.50	10.50	< 2.07	< 2.00	2.20	19	15	24
1998	21	8	31	5.93	1.60	10.40	< 3.70	< 2.00	5.40	44	42	46
1999	20	9	32	5.46	2.66	8.59	< 4.50	< 2.00	9.50	< 194	< 2	520
2000	21	6	31	5.78	3.70	9.18	< 3.05	< 2.00	< 4.00	69	26	170
2001	20	6	36	5.84	3.32	12.20	< 2.25	< 2.00	3.00	37	14	62
2002	20	8	29	5.76	2.34	15.31	< 2.76	< 2.00	3.92	36	12	70
2003	18	5	27	5.12	1.04	11.71	< 2.25	< 2.00	3.00	31	12	44
2004	19	5	30	5.12	1.79	11.30	< 2.00	< 2.00	< 2.00	26	24	28
2005	16	5	28	5.87	2.20	10.35	< 2.00	< 2.00	< 2.00	38	38	38

Exhibit E-51

Environmental Monitoring
Northeast Cape Fear River - GE -Wilmington DOCK

Jan 95 through Dec 05

	pH Ranges (units)		Nitrite (ppm)			Nitrate (ppm)		
	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	5.9	7.9	< 0.13	< 0.10	0.21	1.44	1.01	1.95
1996	5.7	7.6	< 0.10	< 0.10	< 0.10	1.58	1.02	1.96
1997	5.7	7.6	< 0.12	< 0.10	0.19	1.41	0.61	2.40
1998	5.2	8.5	< 0.15	< 0.10	0.29	1.25	0.59	1.52
1999	5.3	8.4	< 0.18	< 0.10	0.43	0.90	0.66	1.27
2000	6.2	7.8	< 0.10	< 0.10	< 0.10	2.19	0.78	4.35
2001	6.1	7.7	< 0.16	< 0.10	< 0.20	1.35	0.77	1.95
2002	4.4	7.9	< 0.16	< 0.10	0.24	0.95	0.74	1.31
2003	6.1	8.8	< 0.09	< 0.06	< 0.10	1.14	0.58	1.39
2004	5.1	8.5	< 0.08	< 0.05	< 0.10	1.55	0.86	2.89
2005	6.2	7.5	< 0.07	< 0.06	< 0.08	1.08	0.31	1.83

	Fluoride (ppm)			Chloride (ppm)			Sulfate (ppm)		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.00	< 1.00	< 1.00	< 673	< 10	9310	25.5	16.4	34.0
1996	< 1.00	< 1.00	< 1.00	< 192	< 10	3778	74.5	18.2	227.5
1997	< 1.00	< 1.00	< 1.00	1250	14	5775	147.4	14.2	531.2
1998	< 1.00	< 1.00	< 1.00	1547	1547	1547	159.2	9.8	470.0
1999	< 1.00	< 1.00	< 1.00	1928	17	7660	273.2	16.4	530.0
2000	< 1.00	< 1.00	< 1.00	188	14	693	43.7	15.8	111.0
2001	< 0.50	< 0.50	< 0.50	1826	266	3480	181.6	41.6	395.0
2002	< 0.50	< 0.50	< 0.50	3715	32	7730	307.1	16.4	575.0
2003	< 0.50	< 0.50	< 0.50	41	19	86	12.3	4.3	21.7
2004	< 0.50	< 0.50	< 0.50	50	22	95	16.9	4.3	24.8
2005	< 0.50	< 0.50	< 0.50	37	20	56	25.6	14.8	49.9

Exhibit E-51

Environmental Monitoring
Northeast Cape Fear River - GE -Wilmington DOCK

Jan 95 through Dec 05

	Copper (ppm)			Nickel (ppm)			Chromium (ppm)		
	Ave	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max**
1995	< 0.011	< 0.010	0.014	< 0.014	< 0.010	0.024	< 0.010	< 0.010	< 0.010
1996	< 0.010	< 0.010	< 0.010	< 0.013	< 0.010	0.021	< 0.010	< 0.010	< 0.010
1997	< 0.011	< 0.010	0.012	< 0.013	< 0.010	< 0.020	< 0.011	< 0.010	0.012
1998	< 0.010	< 0.010	< 0.010	< 0.011	< 0.010	0.012	< 0.010	< 0.010	< 0.010
1999	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
2000	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
2001	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
2002	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.026	< 0.025	0.028
2003	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
2004	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
2005	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025

Exhibit E-52

Environmental Monitoring
Northeast Cape Fear River - Downstream

Jan 95 through Dec 05

	pH Range (units)		Ammonia (ppm)			Nitrate (ppm)			Fluoride (ppm)		
	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	5.86	7.88	1.69	1.35	2.13	1.44	1.01	1.95	< 1.00	< 1.00	< 1.00
1996	5.66	7.57	1.56	1.07	2.08	1.58	1.02	1.96	< 1.00	< 1.00	< 1.00
1997	5.65	7.55	1.36	0.98	1.82	1.41	0.61	2.40	< 1.00	< 1.00	< 1.00
1998	5.23	8.51	1.48	1.16	1.96	1.25	0.59	1.52	< 1.00	< 1.00	< 1.00
1999	5.32	8.41	1.80	1.28	2.06	0.90	0.66	1.27	< 1.00	< 1.00	< 1.00
2000	6.22	7.80	1.67	1.39	2.20	2.19	0.78	4.35	< 1.00	< 1.00	< 1.00
2001	6.09	7.65	1.44	1.33	1.59	1.35	0.77	1.95	< 0.50	< 0.50	< 0.50
2002	4.42	7.91	3.26	1.36	6.39	0.95	0.74	1.31	< 0.50	< 0.50	< 0.50
2003	6.05	8.83	1.80	1.48	2.21	1.14	0.58	1.39	< 0.50	< 0.50	< 0.50
2004	5.05	8.47	1.23	0.63	1.93	1.55	0.86	2.89	< 0.50	< 0.50	< 0.50
2005	6.20	7.51	1.21	0.67	1.49	1.08	0.31	1.83	< 0.50	< 0.50	< 0.50

Exhibit E-53

Environmental Monitoring Nitrate Shipments To Local Paper Company

Jan 95 through Dec 05

International Paper north basin sludge (liquid for NH3/NO3)

	Ammonia (ppm)			Nitrate (ppm)		
	Avg	**Min**	**Max**	**Ave**	**Min**	**Max**
1995	5.53	0.49	9.24	1.27	0.54	6.18
1996	5.51	0.55	10.76	1.20	0.74	5.62
1997	5.07	1.85	8.77	1.22	0.74	3.70

International Paper new bay sludge (liquid for NH3/NO3)

	Ammonia (ppm)			Nitrate (ppm)		
	Avg	**Min**	**Max**	**Ave**	**Min**	**Max**
1995	1.21	0.43	9.32	2.72	0.63	8.54
1996	< 1.38	< 0.40	4.39	2.05	0.61	10.55
1997	1.60	0.50	5.62	1.67	0.67	5.84

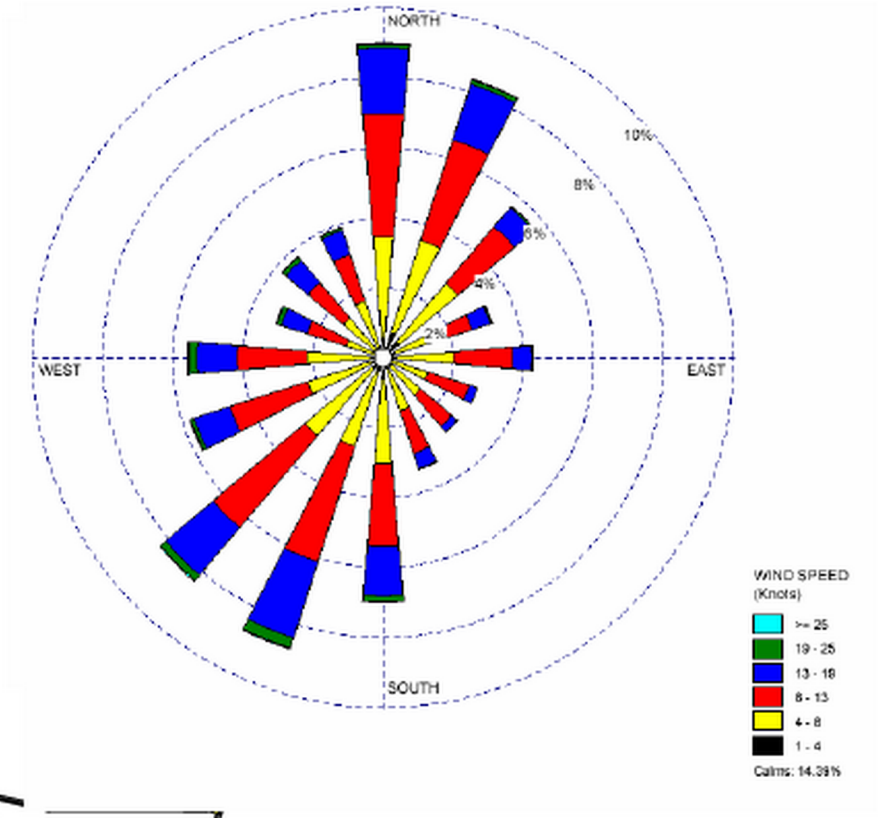
Note: Sampling Discontinued since 1998

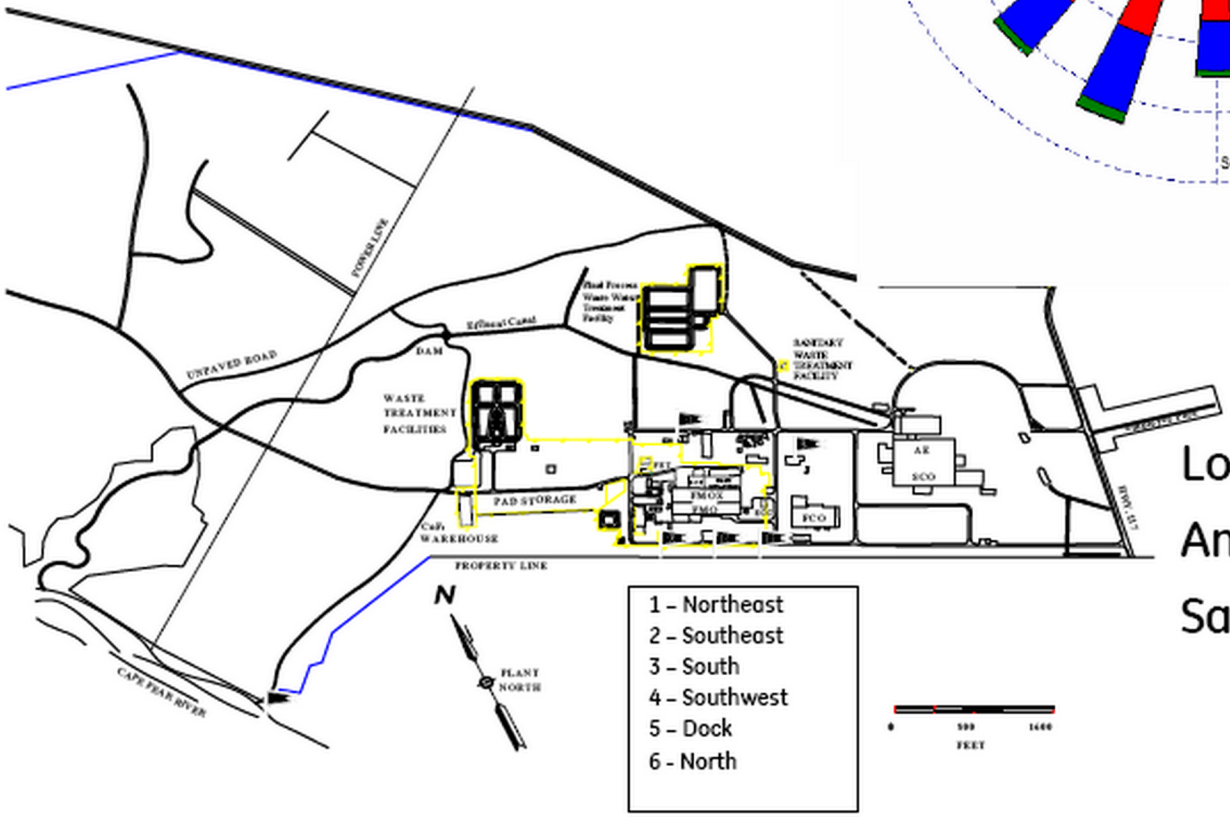
Exhibit E-54

Annual Wind Rose for Wilmington , NC

Period of Record: 1994-2005

Source: NOAA National Climatic Data Center
Asheville, North Carolina





Locations of Ambient Air Sampling Sites

Exhibit E-55

Environmental Monitoring
Fluoride Concentration in Grass
(ppm F)

Jan 95 through Dec 05

Year	Ambient Air Sampling Station	
	Southwest *	Northeast *
1995	< 10.00	< 10.00
1996	< 21.00	< 17.00
1997	< 27.33	< 24.00
1998	< 14.68	< 14.16
1999	6.93	< 5.60
2000	3.86	3.94
2001	< 1.29	< 1.20
2002	1.28	2.52
2003	3.48	3.93
2004	2.92	3.46
2005	3.38	4.42

* Reference Exhibit E-54 for location of ambient air sampling station

Exhibit E-56

COMPOSITION OF PRINCIPAL AQUIFER

Results (mg/l)

PARAMETER	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Iron, Fe	9.9	-	-	-	3.47	2.84	3.17	2.55	3.09	17.15	7.50
Magnesium, Mg	2.20	-	-	-	-	-	-	-	-	-	-
Manganese, Mn	0.070	-	-	-	0.061	0.040	0.047	0.076	0.124	0.073	0.066
Molybdenum, Mo	<0.005	-	-	-	-	-	-	-	-	-	-
Potassium, K	2.60	-	-	-	-	-	-	-	-	-	-
Sodium, Na	17.8	-	-	-	-	-	-	-	-	-	-
Tin, Sn	<0.005	-	-	-	-	-	-	-	-	-	-
Sulfide, S	<0.1	-	-	-	-	-	-	-	-	-	-
Silica, SiO_2	16.3	-	-	-	-	-	-	-	-	-	-
Zirconium, Zr	<0.005	-	-	-	-	-	-	-	-	-	-
Gadolinium, Gd	<0.005	-	-	-	-	-	-	-	-	-	-
Carbon Dioxide, CO_2	12	-	-	-	-	-	-	-	-	-	-
Bicarbonate, HCO_3	154	-	-	-	-	-	-	-	-	-	-
Carbonate, CO_3	0	-	-	-	-	-	-	-	-	-	-
Specific Gravity @ 4°C	0.9969	-	-	-	-	-	-	-	-	-	-
Fluoride, F	0.12	-	-	-	-	-	-	-	-	-	-
Nitrite, NO_2	<0.1	-	-	-	-	-	-	-	-	-	-
Nitrate, NO_3	<0.1	-	-	-	-	-	-	-	-	-	-
Cadmium, Cd	<0.002	-	-	-	-	-	-	-	-	-	-
Ammonia, NH_3	0.2	-	-	-	-	-	-	-	-	-	-
Barium, Ba	0.040	-	-	-	-	-	-	-	-	-	-
Chromium, Cr	0.006	-	-	-	-	-	-	-	-	-	-

Exhibit E-57

Environmental Monitoring
Principal Aquifer - Chemical Concentrations In Individual Wells

Jan 95 through Dec 05

Fluoride (ppm)

	Supply Well #9A			Supply Well #11			Supply Well #14		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.00	< 1.00	< 1.00	-	-	-	-	-	-
1996	< 1.01	< 1.00	1.17	-	-	-	-	-	-
1997	< 1.38	< 1.00	5.61	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1998	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1999	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2000	< 1.00	< 1.00	< 1.00	-	-	-	-	-	-
2001	< 0.50	< 0.50	< 0.50	-	-	-	-	-	-
2002	< 0.50	< 0.50	< 0.50	-	-	-	-	-	-
2003	< 0.50	< 0.50	< 0.50	-	-	-	-	-	-
2004	< 0.50	< 0.50	< 0.50	-	-	-	-	-	-
2005	< 0.50	< 0.50	< 0.50	-	-	-	-	-	-

Nitrate (ppm)

	Supply Well #9A			Supply Well #11			Supply Well #14		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 0.33	< 0.20	0.58	< 0.31	< 0.20	0.54	< 0.31	< 0.20	0.55
1996	< 0.95	< 0.20	8.85	< 0.25	< 0.20	0.33	< 0.25	< 0.20	0.35
1997	< 0.21	< 0.20	0.28	< 0.21	< 0.20	0.32	< 0.21	< 0.20	0.29
1998	< 0.20	< 0.20	< 0.20	< 0.23	< 0.20	0.37	< 0.22	< 0.20	0.32
1999	< 0.21	< 0.20	0.22	< 0.26	< 0.20	0.58	< 2.09	< 0.20	24.15
2000	< 0.29	< 0.20	0.54	< 0.27	< 0.20	0.49	< 0.20	< 0.20	< 0.20
2001	0.65	0.24	1.82	< 0.21	< 0.20	< 0.21	< 0.20	< 0.20	< 0.20
2002	< 0.20	< 0.20	< 0.21	< 0.21	< 0.20	< 0.21	< 0.21	< 0.21	< 0.21
2003	< 0.22	< 0.20	0.25	< 0.21	< 0.20	< 0.21	< 0.20	< 0.20	< 0.20
2004	< 0.43	< 0.20	0.97	< 0.20	< 0.20	< 0.20	0.22	0.22	0.22
2005	< 0.40	< 0.23	0.95	< 0.23	< 0.22	< 0.23	< 0.23	< 0.23	< 0.24

Note: Refer to Exhibit E-7 for location of supply well.

Exhibit E-58

Environmental Monitoring
Water-Table Aquifer - Waste Treatment Facility

Jan 95 through Dec 05

pH Range (units)

	Well WT-1		Well WT-2		Well WT-3		Well WT-4	
	Min	Max	Min	Max	Min	Max	Min	Max
1995	5.50	7.62	5.79	6.60	5.40	6.50	4.60	6.20
1996	5.50	8.10	6.00	8.00	5.25	6.85	4.76	6.80
1997	5.80	7.80	5.72	9.00	5.20	8.30	4.60	7.90
1998	5.60	6.60	6.00	6.20	5.30	6.10	4.40	5.20
1999	6.00	6.40	6.00	6.70	5.60	6.50	5.02	5.70
2000	6.10	6.50	6.20	6.20	5.50	5.50	5.40	5.40
2001	6.80	7.00	5.70	5.70	5.80	5.80	4.30	4.30
2002	6.50	6.73	6.00	6.00	5.30	5.30	5.00	5.00
2003	6.20	7.77	5.70	5.70	-	-	4.90	4.90
2004	5.40	6.82	5.50	5.50	5.80	5.80	6.10	6.10
2005	5.30	6.50	6.10	6.10	4.60	4.60	5.40	5.40

	Well WT-5		Well WT-6		Well WT-7		Well WT-9	
	Min	Max	Min	Max	Min	Max	Min	Max
1995	5.40	6.20	5.67	6.64	6.00	6.67	6.30	6.90
1996	5.35	6.70	5.50	6.60	5.99	7.10	6.30	7.30
1997	5.25	8.80	5.89	8.90	6.09	8.90	6.00	8.50
1998	5.20	6.50	5.60	6.40	5.70	6.50	5.60	6.50
1999	4.70	6.30	6.10	6.35	6.00	6.45	6.00	6.90
2000	5.50	5.50	5.80	5.80	6.10	6.10	6.20	6.20
2001	3.30	3.30	5.40	5.40	5.80	5.80	-	-
2002	4.10	4.10	5.80	5.80	6.20	6.20	-	-
2003	4.80	4.90	5.70	5.70	5.20	5.20	-	-
2004	5.80	5.80	5.40	5.40	5.60	5.60	-	-
2005	4.50	4.50	5.90	5.90	6.10	6.10	-	-

Note: Well WT-9 abandoned in 2001. Refer to Exhibit E-10 for Well locations.

Exhibit E-58

Environmental Monitoring
Water-Table Aquifer - Waste Treatment Facility

Jan 95 through Dec 05

Fluoride (ppm)

	Well WT-1			Well WT-2			Well WT-3			Well WT-4		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 2.70	< 1.00	3.74	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1996	2.47	1.65	3.75	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1997	4.42	2.89	5.73	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1998	7.07	4.82	8.81	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1999	6.42	4.04	8.42	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2000	3.95	3.95	3.95	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2001	5.80	5.80	5.80	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2002	5.79	5.79	5.79	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2003	7.50	7.50	7.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2004	7.38	7.38	7.38	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2005	6.38	6.38	6.38	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

	Well WT-5			Well WT-6			Well WT-7			Well WT-9		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1996	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1997	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1998	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1999	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2000	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2001	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	-
2002	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	-
2003	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	-
2004	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	-
2005	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	-

Note: Well WT-9 abandoned in 2001. Refer to Exhibit E-10 for Well locations.

Exhibit E-58

Environmental Monitoring
Water-Table Aquifer - Waste Treatment Facility

Jan 95 through Dec 05

Ammonia (ppm)

	Well WT-1			Well WT-2			Well WT-3			Well WT-4		
	Ave	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max**
1995	17.63	3.32	35.06	1.37	0.77	2.46	6.52	3.83	12.16	2.09	0.97	4.58
1996	15.23	5.56	28.21	1.85	0.65	7.18	6.12	2.29	11.44	2.17	0.92	6.07
1997	27.13	14.48	105.91	1.43	0.90	1.99	4.31	3.05	5.44	1.15	0.67	1.85
1998	35.75	23.85	58.48	1.27	0.84	1.68	4.78	3.94	5.53	1.11	0.84	1.53
1999	18.28	8.98	26.28	1.24	0.93	1.64	4.22	3.77	4.72	1.24	0.64	1.91
2000	6.03	6.03	6.03	1.14	1.14	1.14	4.49	4.49	4.49	1.27	1.27	1.27
2001	7.19	7.19	7.19	1.20	1.20	1.20	3.85	3.85	3.85	1.30	1.30	1.30
2002	2.01	2.01	2.01	1.17	1.17	1.17	3.81	3.81	3.81	0.60	0.60	0.60
2003	1.19	1.19	1.19	1.20	1.20	1.20	3.55	3.55	3.55	1.29	1.29	1.29
2004	< 0.51	< 0.51	< 0.51	1.18	1.18	1.18	0.52	0.52	0.52	0.54	0.54	0.54
2005	< 0.51	< 0.51	< 0.51	0.89	0.89	0.89	1.45	1.45	1.45	1.16	1.16	1.16

	Well WT-5			Well WT-6			Well WT-7			Well WT-9		
	Ave	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max**
1995	3.89	2.80	5.44	10.30	6.46	11.62	1.56	0.77	3.75	2.02	0.68	5.79
1996	3.32	1.39	4.78	10.00	5.56	12.37	1.74	0.65	5.72	< 1.20	< 0.40	1.93
1997	2.19	1.19	3.91	8.78	5.93	10.51	0.86	0.55	1.22	1.19	0.61	2.60
1998	1.76	0.68	2.59	8.16	5.61	11.67	1.41	0.90	2.83	1.20	0.82	1.96
1999	2.80	1.68	4.59	7.55	3.97	10.07	0.83	0.49	1.33	1.46	0.65	2.28
2000	6.37	6.37	6.37	2.96	2.96	2.96	0.96	0.96	0.96	0.59	0.59	0.59
2001	19.40	19.40	19.40	7.51	7.51	7.51	< 1.19	< 1.19	< 1.19	-	-	-
2002	16.02	16.02	16.02	10.44	10.44	10.44	0.67	0.67	0.67	-	-	-
2003	7.71	7.71	7.71	12.70	12.70	12.70	2.40	2.40	2.40	-	-	-
2004	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	-	-	-
2005	8.60	8.60	8.60	8.48	8.48	8.48	0.83	0.83	0.83	-	-	-

Note: Well WT-9 abandoned in 2001. Refer to Exhibit E-10 for Well locations.

Exhibit E-58

Environmental Monitoring
Water-Table Aquifer - Waste Treatment Facility

Jan 95 through Dec 05

Nitrate (ppm)

	Well WT-1			Well WT-2			Well WT-3			Well WT-4		
	Ave	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max**
1995	261.79	44.30	591.78	20.75	5.24	48.09	2.16	1.19	3.85	3.98	0.22	12.13
1996	195.50	39.99	890.38	14.86	2.46	26.47	1.86	0.99	4.48	4.58	0.95	9.68
1997	244.78	199.18	333.95	16.64	3.71	56.07	1.33	0.71	2.12	2.85	0.69	5.02
1998	330.80	197.52	463.32	3.48	0.75	6.90	1.16	0.84	1.84	3.00	0.89	5.71
1999	256.25	98.00	423.00	5.61	0.93	16.30	1.21	1.01	1.40	2.58	1.02	5.92
2000	75.30	75.30	75.30	7.90	7.90	7.90	0.82	0.82	0.82	4.94	4.94	4.94
2001	< 1.06	< 1.06	< 1.06	5.75	5.75	5.75	< 1.06	< 1.06	< 1.06	1.23	1.23	1.23
2002	7.32	7.32	7.32	0.45	0.45	0.45	0.72	0.72	0.72	3.06	3.06	3.06
2003	3.95	3.95	3.95	0.47	0.47	0.47	0.53	0.53	0.53	0.85	0.85	0.85
2004	2.33	2.33	2.33	1.31	1.31	1.31	3.65	3.65	3.65	0.86	0.86	0.86
2005	1.75	1.75	1.75	0.31	0.31	0.31	5.50	5.50	5.50	1.70	1.70	1.70

	Well WT-5			Well WT-6			Well WT-7			Well WT-9		
	Ave	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max ***	**Ave**	**Min**	**Max**
1995	2.41	0.53	4.03	1.34	0.36	2.57	3.98	0.26	25.76	6.04	1.39	27.34
1996	2.24	0.91	7.06	1.28	0.83	2.02	9.60	0.68	31.20	6.79	0.68	28.73
1997	0.96	0.23	2.12	1.56	0.34	5.24	18.89	0.68	37.50	11.18	1.01	30.14
1998	< 3.31	< 0.20	20.04	2.82	0.79	9.32	< 10.89	< 0.20	31.23	3.41	2.06	4.69
1999	0.94	0.55	1.33	2.94	0.64	7.40	< 301.59	< 0.20	2080.00	4.31	1.46	7.08
2000	26.50	26.50	26.50	10.40	10.40	10.40	0.68	0.68	0.68	2.79	2.79	2.79
2001	154.00	154.00	154.00	1.06	1.06	1.06	< 1.06	< 1.06	< 1.06	-	-	-
2002	49.00	49.00	49.00	0.78	0.78	0.78	0.30	0.30	0.30	-	-	-
2003	8.20	8.20	8.20	0.69	0.69	0.69	0.31	0.31	0.31	-	-	-
2004	4.66	4.66	4.66	3.01	3.01	3.01	0.26	0.26	0.26	-	-	-
2005	1.32	1.32	1.32	0.40	0.40	0.40	< 0.20	< 0.20	< 0.20	-	-	-

Note: Well WT-9 abandoned in 2001. Refer to Exhibit E-10 for Well locations.

* Well WT-7 (1999 Max Nitrate result) - After investigation, no specific cause could be identified and additional monitoring showed typical values.

Exhibit E-59

Environmental Monitoring
Water Table Aquifer - Calcium Fluoride Sludge Storage Area
in NorthWest part of Wilmington Site

Jan 95 through Dec 05

Fluoride (ppm)

	Well CaF-1			Well CaF-2			Well CaF-3			Well CaF-4		
	Ave	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max**	**Ave**	**Min**	**Max**
1995	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1996	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1997	-	-	-	< 1.00	< 1.00	< 1.00	-	-	-	-	-	-

Note: Wells CaF-1, CaF-3, and CaF-4 have been sealed and removed in 1996. Well CaF-2 was sealed and removed in 1997.

Exhibit E-60

Environmental Monitoring
Water Table Aquifer - Former Zirconium Sludge Storage Area

Jan 95 through Dec 05

pH Range (units)

	Well ZC		Well ZD		Well ZE		Well ZG	
	Min	Max	Min	Max	Min	Max	Min	Max
1995	5.90	6.80	5.70	6.70	5.80	7.00	5.80	7.20
1996	5.60	8.20	5.90	7.90	5.90	8.00	5.99	9.10
1997	5.90	7.40	6.20	6.80	6.20	7.10	6.50	8.40

Fluoride (ppm)

	Well ZC			Well ZD			Well ZE			Well ZG		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1996	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1997	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

Ammonia (ppm)

	Well ZC			Well ZD			Well ZE			Well ZG		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	1.44	0.69	4.35	11.81	5.96	20.03	2.43	1.81	3.35	4.61	0.56	9.50
1996	2.70	0.74	7.89	8.82	2.17	14.29	4.38	1.76	15.85	3.95	1.13	6.70
1997	< 1.59	< 0.40	4.52	7.56	2.97	13.54	3.13	2.18	4.46	4.33	1.07	6.97

Nitrate (ppm)

	Well ZC			Well ZD			Well ZE			Well ZG		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	1.32	0.52	2.84	1.54	0.36	2.84	1.02	0.54	2.25	1.00	0.36	2.11
1996	2.00	0.35	4.93	2.24	0.50	7.17	1.95	0.41	5.71	1.93	0.41	7.40
1997	7.28	0.78	25.97	1.52	1.04	1.74	0.94	0.49	1.26	0.85	0.31	1.43

Note: Wells ZC, ZD, ZE, ZG have been sealed and removed as of 1998.

Exhibit E-61

Environmental Monitoring
Water-Table Aquifer - Final Process Basin Area

Jan 95 through Dec 05

pH Range (units)

	Well PL-1		Well PL-3		Well PL-5		Well PL-8		Well PL-11	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1995	5.19	5.70	6.32	6.93	-	-	5.00	5.80	-	-
1996	5.40	6.20	6.00	6.60	-	-	5.90	7.40	5.70	8.10

	Well PL-1A		Well PL-3A		Well PL-5A		Well PL-8A		Well PL-11A	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1995	-	-	-	-	5.90	6.40	-	-	5.70	6.22
1996	-	-	-	-	6.10	6.90	-	-	6.00	6.40
1997	5.27	5.72	5.99	6.18	5.85	6.11	4.72	5.95	5.56	6.04
1998	5.40	5.80	5.60	6.40	5.40	6.00	5.20	6.40	5.60	7.00
1999	5.90	5.90	6.30	6.30	6.00	6.00	5.31	5.90	5.99	6.55
2000	5.90	7.55	5.90	6.31	6.20	6.77	5.02	5.60	4.78	6.50
2001	6.10	6.30	6.50	6.70	5.90	6.30	5.00	5.60	5.80	6.30
2002	5.50	6.80	5.60	6.90	5.40	5.90	5.00	6.20	5.10	6.90
2003	5.10	5.90	5.70	6.40	5.50	6.20	4.90	6.00	5.40	6.00
2004	5.70	5.70	5.40	5.40	5.50	5.70	5.50	6.10	5.40	6.00
2005	5.90	5.90	5.20	5.20	6.30	6.30	5.40	5.70	5.40	6.10

Note: Wells PL-1; PL-3; PL-5; PL-8; PL-11 have been removed as of 1997
Refer to Exhibit E-9 for sample locations

Exhibit E-61

Environmental Monitoring
Water-Table Aquifer - Final Process Basin Area

Jan 95 through Dec 05

Fluoride (ppm)

	Well PL-1			Well PL-3			Well PL-5			Well PL-8			Well PL-11		
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max
1995	< 1.00	< 1.00	< 1.00	< 2.15	< 1.00	4.96	-	-	-	2.11	1.83	2.48	-	-	-
1996	< 1.00	< 1.00	< 1.00	2.26	1.14	3.87	-	-	-	2.21	1.82	2.64	< 1.00	< 1.00	< 1.00

	Well PL-1A			Well PL-3A			Well PL-5A			Well PL-8A			Well PL-11A		
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max
1995	-	-	-	-	-	-	< 1.00	< 1.00	< 1.00	-	-	-	< 1.44	< 1.00	2.05
1996	-	-	-	-	-	-	< 1.00	< 1.00	< 1.00	-	-	-	< 1.00	< 1.00	< 1.00
1997	< 1.00	< 1.00	< 1.00	1.82	1.45	2.18	< 1.00	< 1.00	< 1.00	1.87	1.43	2.31	< 4.08	< 1.00	5.49
1998	< 1.00	< 1.00	< 1.00	< 1.25	< 1.00	1.96	< 1.00	< 1.00	< 1.00	1.77	1.44	2.06	2.38	1.42	3.08
1999	< 1.00	< 1.00	< 1.00	1.07	1.07	1.07	< 1.00	< 1.00	< 1.00	1.93	1.73	2.13	2.48	1.92	3.04
2000	< 1.00	< 1.00	< 1.00	< 1.11	< 1.00	1.22	< 1.00	< 1.00	< 1.00	1.43	1.31	1.63	2.41	2.23	2.73
2001	< 0.50	< 0.50	< 0.50	1.06	0.68	1.44	< 0.50	< 0.50	< 0.50	1.32	1.19	1.54	1.90	1.54	2.26
2002	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.98	< 0.50	1.26	1.01	0.78	1.25
2003	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.56	< 0.50	0.69	1.58	1.37	1.91	1.04	0.99	1.07
2004	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.57	< 0.50	0.63	< 1.07	< 0.50	1.74	1.44	1.08	1.88
2005	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.63	0.62	0.63	1.50	1.06	1.78	2.36	1.05	3.70

Note: Wells PL-1; PL-3; PL-5; PL-8; PL-11 have been removed as of 1997
Refer to Exhibit E-9 for sample locations

Exhibit E-61

Environmental Monitoring
Water-Table Aquifer - Final Process Basin Area

Jan 95 through Dec 05

Ammonia (ppm)

	Well PL-1			Well PL-3			Well PL-5			Well PL-8			Well PL-11		
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max
1995	7.08	6.22	8.87	9.50	8.07	11.53	-	-	-	1.44	0.86	1.83	-	-	-
1996	5.46	4.52	6.07	6.86	4.91	8.65	-	-	-	1.17	0.82	1.59	1.97	1.79	2.14

	Well PL-1A			Well PL-3A			Well PL-5A			Well PL-8A			Well PL-11A		
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max
1995	-	-	-	-	-	-	6.12	5.10	7.04	-	-	-	1.18	0.89	1.56
1996	-	-	-	-	-	-	6.08	5.03	7.03	-	-	-	1.23	0.72	1.74
1997	5.10	1.29	6.75	3.56	1.53	5.10	5.34	4.98	5.77	2.15	0.52	5.47	2.80	0.92	7.12
1998	7.57	6.39	9.92	3.73	2.11	5.38	6.12	5.44	6.97	0.92	0.87	0.96	1.17	0.67	1.70
1999	8.73	8.73	8.73	4.27	4.27	4.27	6.10	6.10	6.10	1.88	1.57	2.19	1.29	0.97	1.61
2000	6.61	6.58	6.64	3.40	2.92	3.88	5.97	5.32	6.62	0.85	0.53	1.05	1.22	0.65	1.50
2001	7.94	6.20	9.68	5.15	3.76	6.54	6.40	6.16	6.64	< 1.69	0.80	< 2.37	< 1.41	0.84	< 2.37
2002	6.68	1.90	11.46	6.23	5.60	6.85	5.56	5.43	5.69	1.63	0.69	3.73	< 1.19	< 0.51	2.48
2003	13.33	11.50	15.70	3.41	0.85	6.90	8.14	5.26	10.65	1.28	0.61	2.98	< 0.57	< 0.51	0.73
2004	9.23	0.66	17.80	< 1.57	< 0.51	2.64	< 4.20	< 0.51	7.89	1.65	0.77	3.18	< 0.58	< 0.51	0.78
2005	23.75	22.10	25.40	2.02	1.37	2.67	7.79	6.92	8.66	1.21	0.60	2.29	< 4.71	< 0.51	9.23

Note: Wells PL-1; PL-3; PL-5; PL-8; PL-11 have been removed as of 1997
Refer to Exhibit E-9 for sample locations

Exhibit E-61

Environmental Monitoring
Water-Table Aquifer - Final Process Basin Area

Jan 95 through Dec 05

Nitrate (ppm)

	Well PL-1			Well PL-3			Well PL-5			Well PL-8			Well PL-11		
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max
1995	0.56	0.33	0.96	0.40	0.26	0.55	-	-	-	2.26	1.84	3.16	-	-	-
1996	0.76	0.22	1.48	< 0.58	< 0.20	0.93	-	-	-	3.75	0.49	7.50	0.60	0.33	0.76

	Well PL-1A			Well PL-3A			Well PL-5A			Well PL-8A			Well PL-11A		
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max
1995	-	-	-	-	-	-	0.53	0.40	0.65	-	-	-	2.58	0.55	5.35
1996	-	-	-	-	-	-	1.13	0.63	1.51	-	-	-	1.34	1.24	1.43
1997	1.44	1.29	1.59	0.80	0.52	1.08	0.95	0.86	1.03	6.26	1.56	10.95	0.85	0.79	0.90
1998	< 1.38	< 0.20	3.11	< 0.27	< 0.20	0.49	< 0.38	< 0.20	0.57	3.62	0.61	9.43	0.35	0.20	0.57
1999	0.59	0.59	0.59	0.21	0.21	0.21	0.44	0.44	0.44	3.46	0.54	6.38	0.59	0.59	0.59
2000	0.56	0.54	0.58	< 0.38	< 0.20	0.56	0.30	0.24	0.36	1.08	0.39	2.06	< 0.42	< 0.20	1.05
2001	< 1.17	< 0.20	< 2.13	< 1.36	0.59	< 2.13	< 1.17	< 0.21	< 2.13	1.83	0.35	3.61	< 0.48	0.21	< 1.06
2002	4.37	0.37	8.37	< 0.20	< 0.20	< 0.20	0.27	0.27	0.27	< 3.06	< 0.20	6.45	5.11	1.12	7.88
2003	< 0.42	< 0.20	0.86	0.53	0.24	0.85	0.29	0.22	0.42	< 1.96	< 0.20	4.82	< 1.45	< 0.20	2.64
2004	< 0.26	< 0.20	0.31	< 0.28	< 0.20	0.36	< 0.23	< 0.20	0.26	< 0.25	< 0.20	0.32	< 0.29	< 0.19	0.68
2005	0.46	0.29	0.64	5.52	5.26	5.78	0.24	0.24	0.25	< 0.58	< 0.20	1.44	< 0.30	< 0.20	0.43

Note: Wells PL-1; PL-3; PL-5; PL-8; PL-11 have been removed as of 1997
Refer to Exhibit E-9 for sample locations

Exhibit E-62

Environmental Monitoring Water Table Aquifer - Sanitary Waste Water Treatment Facility

Jan 95 through Dec 05

Fecal Coliform (mf / 100ml)

	Well SW-1			Well SW-2			Well SW-3			Well SW-4		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	220	220	220	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1996	< 3	< 2	4	39	2	76	< 9	< 2	16	< 2	< 2	< 2
1997	< 4	< 4	< 4	< 4	< 4	< 4	7	7	7	< 4	< 4	< 4
1998	-	-	-	-	-	-	-	-	-	-	-	-
1999	856	12	1700	5	5	5	< 2	< 2	< 2	< 2	< 2	< 2
2000	< 12	< 4	19	-	-	-	< 3	< 2	< 4	< 10	< 10	< 10
2001	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2002	< 2	< 2	< 2	-	-	-	< 2	< 2	< 2	< 2	< 2	< 2
2003	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	47	47	47
2004	< 1	< 1	< 1	-	-	-	2	2	2	< 1	< 1	< 1
2005	22	22	22	-	-	-	320	320	320	32	32	32

Note: No data for well SW-2 due to being dry in years 2000, 2002, 2004, and 2005

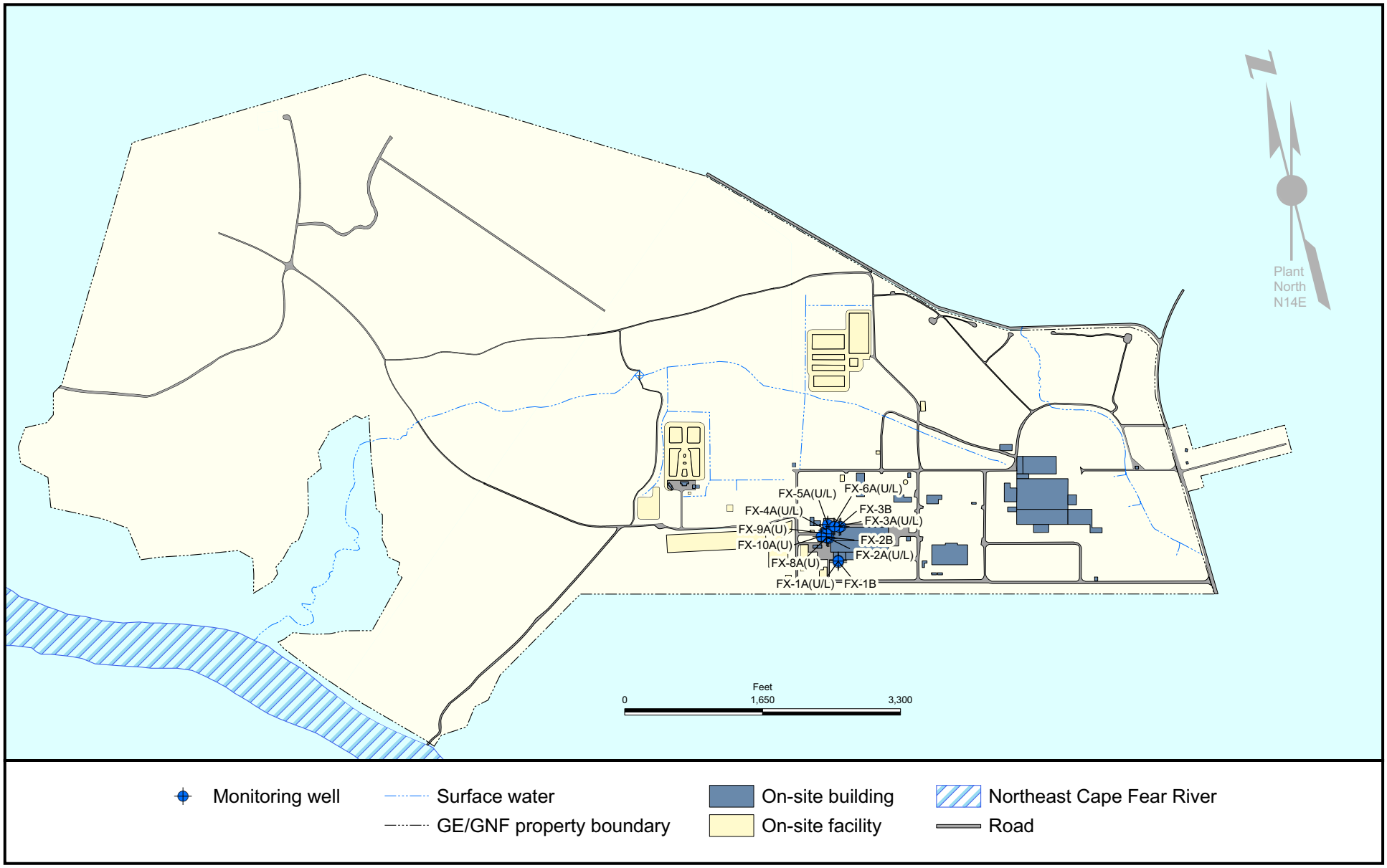


Exhibit E-63
Locations of FX-Series Wells along Western Perimeter of FMO/FMOX Buildings

Exhibit E-64

Environmental Monitoring
FX-A(U) Series Wells
(ppm)*

Jan 95 through Dec 05

FX-01A(U)									
	Fluoride			Nitrate (as N)			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.00	< 1.00	< 1.00	< 0.07	< 0.05	0.05	0	0	0
1996	< 1.00	< 1.00	< 1.00	0.11	0.08	0.08	0	0	0
1997	< 1.00	< 1.00	< 1.00	< 0.06	< 0.05	0.05	0	0	0
1998	< 1.00	< 1.00	< 1.00	0.26	0.26	0.26	0	0	0
1999	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2000	< 0.10	< 0.10	< 0.10	< 0.44	< 0.44	< 0.44	0	0	0
2001	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2002	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2003	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2004	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2005	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0

FX-02A(U)									
	Fluoride			Nitrate (as N)			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	4.86	4.17	5.40	30.85	20.70	20.70	0.66	0.19	1.24
1996	5.62	5.19	5.93	15.21	2.23	2.23	0.44	0.06	0.86
1997	4.77	4.47	5.06	15.85	13.50	13.50	0.33	0.19	0.46
1998	4.54	4.35	4.73	118.11	105.37	105.37	0.11	0.10	0.11
1999	3.79	3.63	3.95	20.20	18.80	18.80	0.24	0.12	0.38
2000	3.83	3.78	3.88	66.23	51.40	51.40	0.15	0.10	0.18
2001	7.69	3.48	11.90	9.98	4.45	4.45	0.37	0.10	0.69
2002	12.30	10.10	14.50	< 0.10	< 0.10	< 0.10	0.20	0.08	0.31
2003	20.90	16.20	25.60	< 0.10	< 0.10	< 0.10	0.14	0.10	0.20
2004	20.80	19.40	22.20	< 0.10	< 0.10	< 0.10	0	0	0.03
2005	20.60	20.60	20.60	< 0.10	< 0.10	< 0.10	0	0	0

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

Note: Refer to Exhibit E-63 for sample locations.

Exhibit E-64

Environmental Monitoring
FX-A(U) Series Wells
(ppm)*

Jan 95 through Dec 05

FX-03A(U)									
	Fluoride			Nitrate (as N)			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.00	< 1.00	< 1.00	0.45	0.07	0.07	0	0	0
1996	< 1.00	< 1.00	< 1.00	0.19	0.10	0.10	0	0	0
1997	< 1.00	< 1.00	< 1.00	0.26	0.10	0.10	0	0	0
1998	< 1.00	< 1.00	< 1.00	931.76	931.76	931.76	0	0	0
1999	< 0.12	< 0.10	0.13	< 0.43	< 0.10	0.10	0	0	0
2000	< 0.11	< 0.10	0.12	3.24	2.17	2.17	0	0	0
2001	< 0.12	< 0.10	0.13	< 0.66	< 0.10	0.10	0	0	0
2002	< 0.13	< 0.10	0.15	< 0.68	< 0.10	0.10	0	0	0
2003	0.15	0.11	0.19	1.61	1.04	1.04	0	0	0
2004	0.16	0.14	0.18	1.13	0.97	0.97	0	0	0
2005	0.16	0.16	0.16	1.48	1.48	1.48	0	0	0

FX-04A(U)									
	Fluoride			Nitrate (as N)			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.00	< 1.00	< 1.00	7.86	2.41	2.41	0	0	0
1996	< 1.00	< 1.00	< 1.00	4.53	3.31	3.31	0	0	0
1997	< 1.00	< 1.00	< 1.00	6.51	6.46	6.46	0	0	0
1998	< 1.00	< 1.00	< 1.00	10.58	9.98	9.98	0	0	0
1999	< 0.10	< 0.10	< 0.10	14.20	8.89	8.89	0	0	0
2000	< 0.10	< 0.10	< 0.10	18.97	11.34	11.34	0	0	0
2001	< 1.35	< 0.10	2.59	3.00	2.20	2.20	0	0	0
2002	< 0.10	< 0.10	< 0.10	1.57	1.11	1.11	0	0	0
2003	< 0.10	< 0.10	< 0.10	1.37	1.13	1.13	0	0	0
2004	< 0.10	< 0.10	< 0.10	0.97	0.47	0.47	0	0	0
2005	< 0.10	< 0.10	< 0.10	0.62	0.62	0.62	0	0	0.02

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

Note: Refer to Exhibit E-63 for sample locations.

Exhibit E-64

Environmental Monitoring
FX-A(U) Series Wells
(ppm)*

Jan 95 through Dec 05

FX-05A(U)									
	Fluoride			Nitrate (as N)			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1996	< 1.00	< 1.00	< 1.00	< 0.09	< 0.05	0.05	0	0	0
1997	< 1.00	< 1.00	< 1.00	< 610.02	< 0.05	0.05	0	0	0
1998	< 1.00	< 1.00	< 1.00	3813.58	1579.78	1579.78	0	0	0
1999	< 0.43	< 0.10	< 1.00	244.16	87.60	87.60	0	0	0
2000	0.24	0.18	0.29	537.51	255.00	255.00	0	0	0
2001	< 0.11	< 0.10	0.11	61.15	18.30	18.30	0	0	0
2002	< 0.11	< 0.10	0.12	10.90	9.89	9.89	0	0	0
2003	< 0.10	< 0.10	< 0.10	< 3.85	< 0.10	0.10	0	0	0
2004	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.05	0	0.10
2005	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0

FX-06A(U)									
	Fluoride			Nitrate (as N)			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.00	< 1.00	< 1.00	0.14	0.08	0.08	0.12	0.07	0.19
1996	< 1.00	< 1.00	< 1.00	< 0.07	< 0.05	0.05	0.08	0.04	0.15
1997	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0.06	0.04	0.08
1998	< 1.00	< 1.00	< 1.00	1.05	0.78	0.78	0.15	0.05	0.24
1999	< 0.10	< 0.10	< 0.10	< 0.11	< 0.10	0.10	0.10	0.09	0.12
2000	< 0.10	< 0.10	< 0.10	< 0.44	< 0.44	< 0.44	0.14	0.06	0.20
2001	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.13	0.11	0.16
2002	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.12	0.08	0.18
2003	< 0.10	< 0.10	< 0.10	0.25	0.16	0.16	0.09	0.05	0.13
2004	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.21	0.16	0.26
2005	< 0.10	< 0.10	< 0.10	< 0.24	< 0.24	< 0.24	0.18	0.16	0.21

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

Note: Refer to Exhibit E-63 for sample locations.

Exhibit E-64

Environmental Monitoring
FX-A(U) Series Wells
(ppm)*

Jan 95 through Dec 05

FX-08A(U)									
	Fluoride			Nitrate (as N)			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	4.35	4.07	4.76	11.31	8.96	8.96	0	0	0.03
1996	4.36	3.68	4.94	11.25	9.94	9.94	< 0.05	0	0.11
1997	4.29	4.24	4.33	10.70	10.10	10.10	0	0	0
1998	3.26	3.26	3.26	63.19	63.19	63.19	0	0	0
1999	3.03	3.02	3.03	18.79	6.07	6.07	0	0	0
2000	2.62	2.40	2.84	30.36	29.70	29.70	0	0	0
2001	< 1.88	< 0.10	3.65	3.36	2.87	2.87	0	0	0.03
2002	5.98	5.86	6.09	0.58	0.57	0.57	0	0	0.04
2003	6.72	5.56	7.88	0.33	0.26	0.26	0	0	0
2004	8.99	8.27	9.70	< 0.10	< 0.10	< 0.10	0	0	0
2005	4.12	4.12	4.12	< 0.37	< 0.37	< 0.37	0	0	0

FX-09A(U)									
	Fluoride			Nitrate (as N)			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.00	< 1.00	< 1.00	1.01	0.77	0.77	0	0	0
1996	< 1.00	< 1.00	< 1.00	3.03	0.81	0.81	0	0	0
1997	< 1.00	< 1.00	< 1.00	0.22	0.07	0.07	0	0	0
1998	< 1.00	< 1.00	< 1.00	1.41	1.26	1.26	0	0	0
1999	< 0.10	< 0.10	< 0.10	< 0.57	< 0.10	0.10	0	0	0
2000	< 0.10	< 0.10	< 0.10	< 0.93	< 0.44	< 0.44	0	0	0
2001	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2002	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2003	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2004	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2005	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

Note: Refer to Exhibit E-63 for sample locations.

Exhibit E-64

Environmental Monitoring
FX-A(U) Series Wells
(ppm)*

Jan 95 through Dec 05

FX-10A(U)									
	Fluoride			Nitrate (as N)			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.00	< 1.00	< 1.00	2.33	2.04	2.04	0	0	0
1996	< 1.00	< 1.00	< 1.00	2.81	1.86	1.86	0	0	0
1997	< 1.00	< 1.00	< 1.00	4.12	3.10	3.10	0	0	0
1998	< 1.00	< 1.00	< 1.00	9.27	9.27	9.27	0	0	0
1999	< 0.10	< 0.10	< 0.10	1.39	1.35	1.35	0	0	0
2000	< 0.10	< 0.10	< 0.10	6.29	6.02	6.02	0	0	0
2001	< 0.10	< 0.10	< 0.10	0.76	0.37	0.37	0	0	0
2002	< 0.10	< 0.10	< 0.10	2.26	1.63	1.63	0	0	0
2003	< 0.10	< 0.10	< 0.10	1.19	0.88	0.88	0	0	0
2004	< 0.10	< 0.10	< 0.10	0.57	0.44	0.44	0	0	0
2005	0.12	0.12	0.12	0.21	0.21	0.21	0	0	0

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

Note: Refer to Exhibit E-63 for sample locations.

Exhibit E-65

Environmental Monitoring
FX-A(L) Series Wells
(ppm)*

Jan 95 through Dec 05

FX-01A(L)									
	Fluoride			Nitrate (as N)			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1996	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1997	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1998	< 1.00	< 1.00	< 1.00	< 0.20	< 0.20	< 0.20	0	0	0
1999	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2000	< 0.10	< 0.10	< 0.10	< 0.44	< 0.44	< 0.44	0	0	0
2001	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2002	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2003	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2004	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2005	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0

FX-02A(L)									
	Fluoride			Nitrate (as N)			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1996	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1997	< 1.00	< 1.00	< 1.00	< 0.09	< 0.05	0.05	0	0	0
1998	< 1.00	< 1.00	< 1.00	< 0.20	< 0.20	< 0.20	0	0	0
1999	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2000	< 0.10	< 0.10	< 0.10	< 0.44	< 0.44	< 0.44	0	0	0
2001	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2002	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2003	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2004	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2005	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

Note: Refer to Exhibit E-63 for sample locations.

Exhibit E-65

Environmental Monitoring
FX-A(L) Series Wells
(ppm)*

Jan 95 through Dec 05

FX-03A(L)									
	Fluoride			Nitrate (as N)			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1996	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1997	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1998	< 1.00	< 1.00	< 1.00	< 0.20	< 0.20	< 0.20	0	0	0
1999	0.16	0.15	0.16	< 0.10	< 0.10	< 0.10	0	0	0
2000	0.14	0.13	0.15	< 0.44	< 0.44	< 0.44	0	0	0
2001	0.12	0.11	0.12	< 0.10	< 0.10	< 0.10	0	0	0
2002	0.12	0.11	0.12	< 0.10	< 0.10	< 0.10	0	0	0
2003	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2004	0.15	0.14	0.15	< 0.10	< 0.10	< 0.10	0	0	0
2005	0.12	0.12	0.12	< 0.10	< 0.10	< 0.10	0	0	0

FX-04A(L)									
	Fluoride			Nitrate (as N)			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 0.53	0.05	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1996	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1997	< 1.00	< 1.00	< 1.00	< 0.07	< 0.05	0.05	0	0	0
1998	< 1.00	< 1.00	< 1.00	< 11.63	< 0.20	0.20	0	0	0
1999	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2000	< 0.10	< 0.10	< 0.10	< 0.82	< 0.44	< 0.44	0	0	0
2001	< 0.10	< 0.10	< 0.10	< 0.75	< 0.10	0.10	0	0	0
2002	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2003	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2004	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2005	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

Note: Refer to Exhibit E-63 for sample locations.

Exhibit E-65

Environmental Monitoring
FX-A(L) Series Wells
(ppm)*

Jan 95 through Dec 05

FX-05A(L)									
	Fluoride			Nitrate (as N)			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1996	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1997	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1998	< 1.00	< 1.00	< 1.00	< 0.20	< 0.20	< 0.20	0	0	0
1999	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2000	< 0.10	< 0.10	< 0.10	< 0.44	< 0.44	< 0.44	0	0	0
2001	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2002	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2003	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2004	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2005	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0

FX-06A(L)									
	Fluoride			Nitrate (as N)			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 0.53	0.05	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1996	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1997	< 1.00	< 1.00	< 1.00	0.11	0.05	0.05	0	0	0
1998	< 1.00	< 1.00	< 1.00	< 0.20	< 0.20	< 0.20	0	0	0
1999	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2000	< 0.10	< 0.10	< 0.10	< 0.44	< 0.44	< 0.44	0	0	0
2001	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2002	< 0.10	< 0.10	< 0.10	< 1.26	< 0.10	0.10	0	0	0
2003	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2004	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2005	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

Note: Refer to Exhibit E-63 for sample locations.

Exhibit E-66

Environmental Monitoring
FX-B Series Wells
(ppm)*

Jan 95 through Dec 05

FX-1B									
	Fluoride			Nitrate (as N)			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1996	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1997	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1998	< 1.00	< 1.00	< 1.00	< 0.20	< 0.20	< 0.20	0	0	0
1999	0.52	0.51	0.52	< 0.10	< 0.10	< 0.10	0	0	0
2000	0.50	0.49	0.50	< 0.44	< 0.44	< 0.44	0	0	0
2001	0.51	0.50	0.51	< 0.10	< 0.10	< 0.10	0	0	0
2002	0.48	0.47	0.49	< 0.10	< 0.10	< 0.10	0	0	0
2003	0.44	0.43	0.44	< 0.10	< 0.10	< 0.10	0	0	0
2004	0.48	0.46	0.50	< 0.10	< 0.10	< 0.10	0	0	0
2005	0.46	0.46	0.46	< 0.10	< 0.10	< 0.10	0	0	0
FX-2B									
	Fluoride			Nitrate (as N)			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1996	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1997	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1998	< 1.00	< 1.00	< 1.00	< 0.20	< 0.20	< 0.20	0	0	0
1999	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2000	< 0.10	< 0.10	< 0.10	< 0.44	< 0.44	< 0.44	0	0	0
2001	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2002	< 0.10	< 0.10	< 0.10	< 0.11	< 0.10	0.10	0	0	0
2003	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2004	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2005	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

Exhibit E-66

Environmental Monitoring
FX-B Series Wells
(ppm)*

Jan 95 through Dec 05

FX-3B									
	Fluoride			Nitrate (as N)			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1996	< 1.00	< 1.00	< 1.00	0.06	0.06	0.06	0	0	0
1997	< 1.00	< 1.00	< 1.00	< 0.05	< 0.05	< 0.05	0	0	0
1998	< 1.00	< 1.00	< 1.00	< 0.20	< 0.20	< 0.20	0	0	0
1999	0.14	0.13	0.14	< 0.10	< 0.10	< 0.10	0	0	0
2000	0.14	0.12	0.16	< 0.44	< 0.44	< 0.44	0	0	0
2001	0.12	0.11	0.13	< 0.10	< 0.10	< 0.10	0	0	0
2002	< 0.12	< 0.10	0.13	< 0.10	< 0.10	< 0.10	0	0	0
2003	< 0.12	< 0.10	0.13	< 0.10	< 0.10	< 0.10	0	0	0
2004	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0
2005	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0	0	0

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

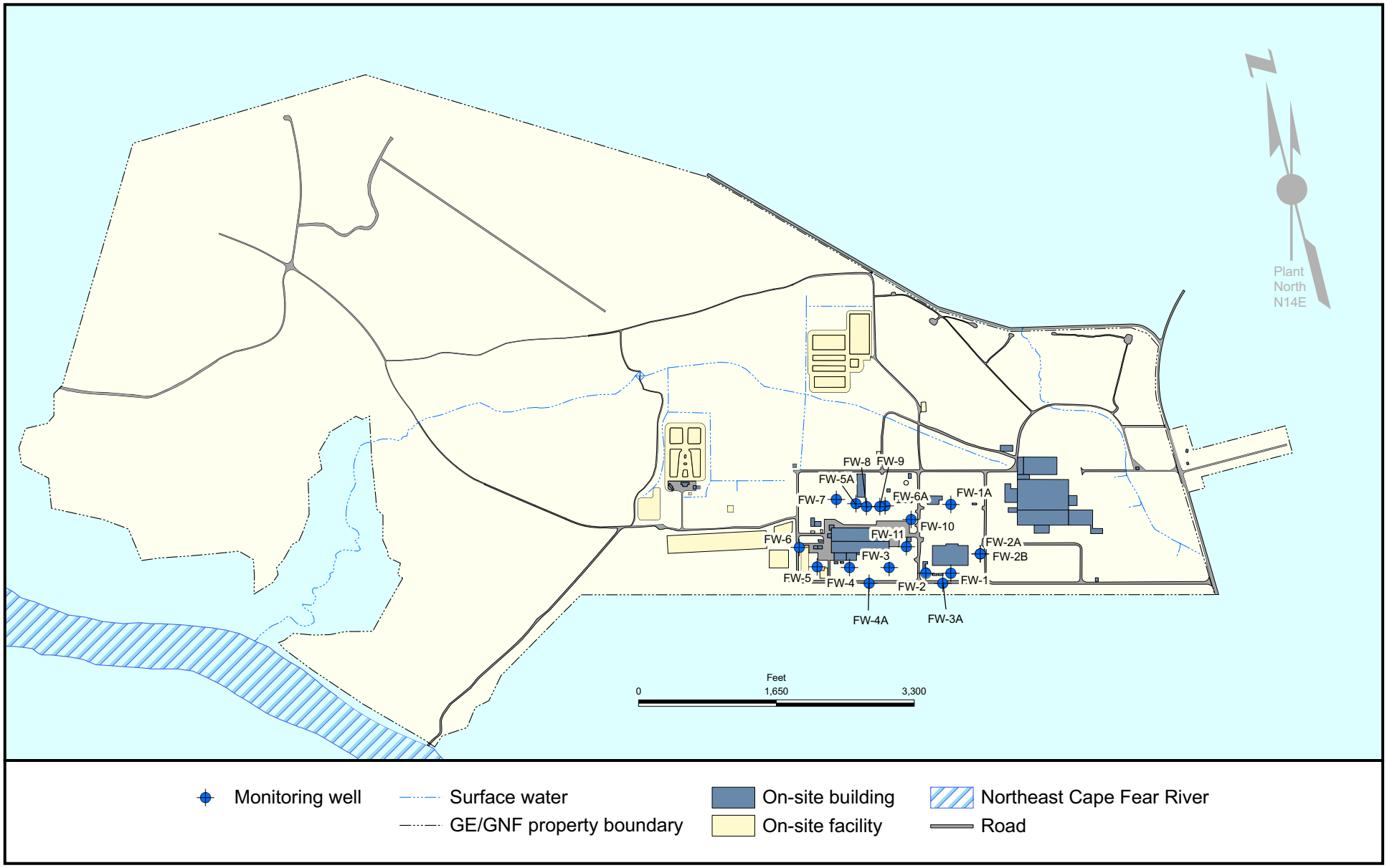


Exhibit E-67
Locations of FW-Series Wells around FMO/FMOX and FCO Areas

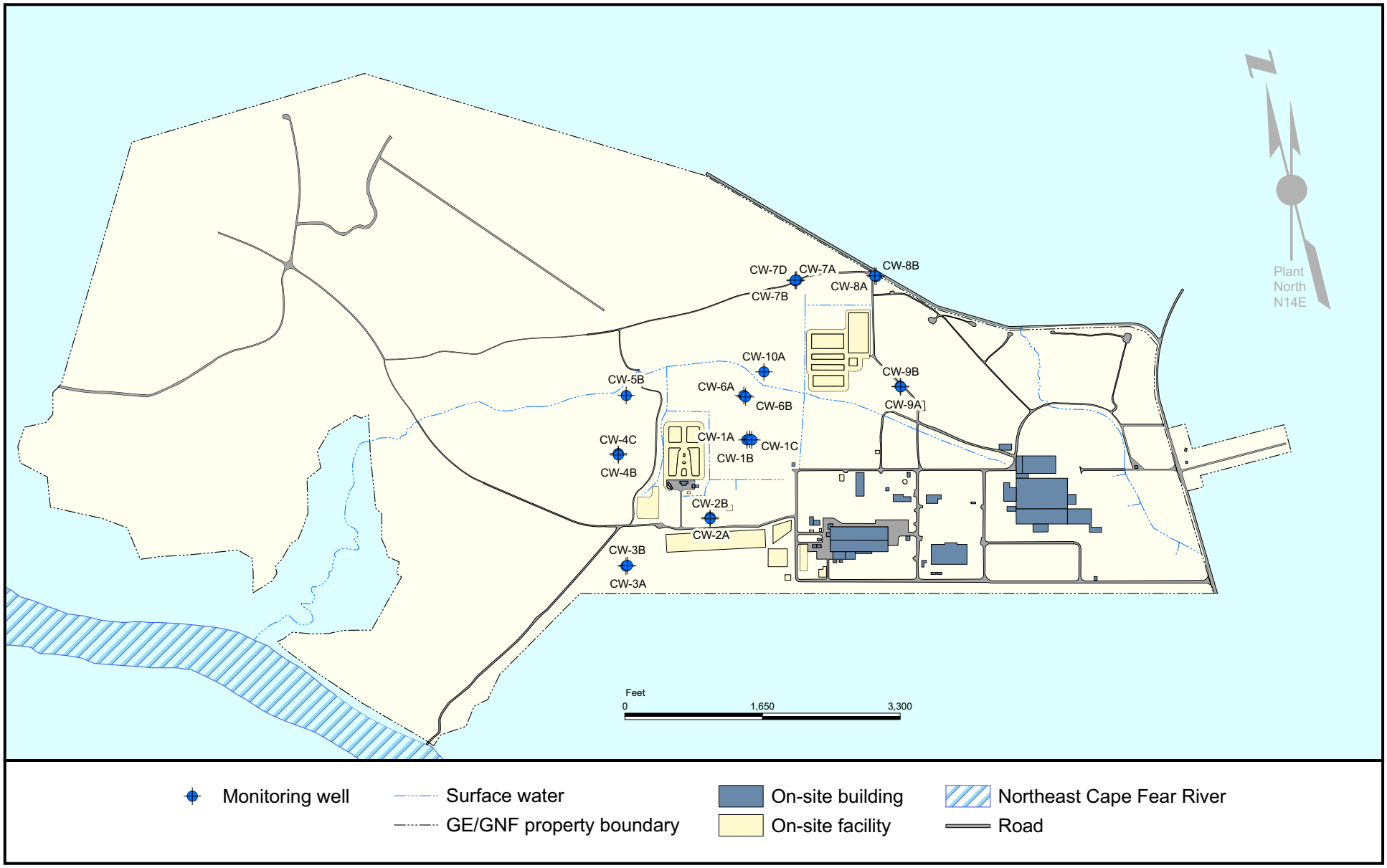


Exhibit E-68
Locations of CW-Series Wells around Waste Treatment Facilities

Exhibit E-69

Environmental Monitoring
FW Series Wells (ppm)*

Jan 95 through Dec 05

FW-3									
	Fluoride			Nitrate			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	<1.0	<1.0	<1.0	0.82	0.57	1.04	0	0	0
1996	<1.0	<1.0	<1.0	1.21	0.64	1.48	0	0	0
1997	<1.0	<1.0	<1.0	2.17	2.17	2.17	0	0	0

FW-4A									
	Fluoride			Nitrate			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1998	<1.0	<1.0	<1.0	0.57	0.26	0.89	0	0	0
1999	<1.0	<1.0	<1.0	0.48	0.48	0.48	0	0	0
2000	<1.0	<1.0	<1.0	<0.74	<0.2	1.28	0	0	0
2001	<0.5	<0.5	<0.5	1.07	0.36	1.77	0	0	0
2002	<0.5	<0.5	<0.5	0.39	0.36	0.42	0	0	0
2003	<0.5	<0.5	<0.5	0.54	0.38	0.69	0	0	0
2004	<0.5	<0.5	<0.5	<0.39	<0.2	0.57	0	0	0
2005	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	0	0	0

FW-5									
	Fluoride			Nitrate			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	<1.0	<1.0	<1.0	<0.38	<0.2	0.6	0	0	0
1996	<1.0	<1.0	<1.0	0.64	0.4	0.83	0	0	0
1997	<1.0	<1.0	<1.0	0.76	0.76	0.76	0	0	0

FW-5A									
	Fluoride			Nitrate			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1998	<1.0	<1.0	<1.0	<0.2	<0.2	<0.2	0	0	0
1999	<1.0	<1.0	<1.0	0.51	0.51	0.51	0	0	0
2000	<1.0	<1.0	<1.0	<0.2	<0.2	<0.2	0	0	0
2001	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	0	0	0
2002	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	0	0	0
2003	<0.5	<0.5	<0.5	0.48	<0.2	0.76	0	0	0
2004	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	0	0	0
2005	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	0	0	0

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0.

Notes:
Refer to Exhibit E-68 for sampling locations.
Wells FW-3 and FW-5 were sealed and removed during 1997 and Wells FW-4A and FW-5A were installed prior to 1998.

Exhibit E-70

Environmental Monitoring
CW Series Wells (ppm)*

Jan 95 through Dec 05

CW-7A									
	Fluoride			Nitrate			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	<1.0	<1.0	<1.0	0.83	0.21	1.45	0	0	0
1996	<1.0	<1.0	<1.0	0.87	0.21	1.52	0	0	0
1997	<1.0	<1.0	<1.0	0.77	0.51	1.03	0	0	0
1998	<1.0	<1.0	<1.0	<0.2	<0.2	<0.2	0	0	0
1999	<1.0	<1.0	<1.0	1.07	0.52	1.89	0	0	0
2000	<1.0	<1.0	<1.0	0.69	0.2	1.44	0	0	0
2001	<0.5	<0.5	<1.0	0.92	0.2	1.63	0	0	0
2002	<0.5	<0.5	<1.0	0.85	0.55	1.14	0	0	0
2003	<0.5	<0.5	<1.0	17.7	17.3	18.1	0	0	0
2004	<0.5	<0.5	<1.0	0.7	0.69	0.71	0	0	0
2005	<0.5	<0.5	<1.0	1.53	0.51	2.54	0	0	0

CW-7B									
	Fluoride			Nitrate			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	<1.0	<1.0	<1.0	<0.2	<0.2	<0.2	0	0	0
1996	<1.0	<1.0	<1.0	<0.2	<0.2	<0.2	0	0	0
1997	<1.0	<1.0	<1.0	0.35	<0.2	0.49	0	0	0
1998	<1.0	<1.0	<1.0	<0.2	<0.2	<0.2	0	0	0
1999	<1.0	<1.0	<1.0	0.31	<0.2	0.54	0	0	0
2000	<1.0	<1.0	<1.0	0.22	<0.2	0.29	0	0	0
2001	0.66	<0.5	0.81	<0.2	<0.2	<0.2	0	0	0
2002	0.64	0.57	0.70	0.37	<0.2	0.53	0.03	0	0.03
2003	0.57	<0.5	0.77	<0.2	<0.2	<0.2	0	0	0
2004	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	0	0	0
2005	<0.5	<0.5	<0.5	0.26	0.25	0.26	0	0	0

CW-7D									
	Fluoride			Nitrate			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	<1.0	<1.0	<1.0	<0.2	<0.2	<0.2	0	0	0
1996	<1.0	<1.0	<1.0	<0.2	<0.2	<0.2	0	0	0
1997	<1.0	<1.0	<1.0	0.47	0.47	0.47	0	0	0
1998	<1.0	<1.0	<1.0	<0.2	<0.2	<0.2	0	0	0
1999	<1.0	<1.0	<1.0	0.30	<0.2	0.49	0	0	0
2000	<1.0	<1.0	<1.0	<0.2	<0.2	<0.2	0	0	0
2001	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	0	0	0
2002	<0.5	<0.5	<0.5	0.33	<0.2	0.45	0	0	0
2003	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	0	0	0
2004	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	0	0	0
2005	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	0	0	0

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0
Note: Refer to Exhibit E-68 for sampling locations.

Exhibit E-70

Environmental Monitoring
CW Series Wells (ppm)*

Jan 95 through Dec 05

CW-8A									
	Fluoride			Nitrate			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	<1.0	<1.0	<1.0	<0.2	<0.2	<0.2	0	0	0
1996	<1.0	<1.0	<1.0	0.21	<0.2	0.22	0	0	0
1997	<1.0	<1.0	<1.0	0.35	<0.2	0.5	0	0	0
1998	<1.0	<1.0	<1.0	0.2	<0.2	0.2	0	0	0
1999	<1.0	<1.0	<1.0	0.32	<0.2	0.97	0	0	0
2000	<1.0	<1.0	<1.0	0.27	<0.2	1.07	0	0	0
2001	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	0	0	0
2002	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	0	0	0
2003	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	0	0	0
2004	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	0	0	0
2005	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	0	0	0

CW-8B									
	Fluoride			Nitrate			Total Uranium		
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max
1995	<1.0	<1.0	<1.0	<0.2	<0.2	<0.2	0	0	0
1996	<1.0	<1.0	<1.0	<0.2	<0.2	<0.2	0	0	0
1997	<1.0	<1.0	<1.0	0.35	<0.2	0.5	0	0	0
1998	<1.0	<1.0	<1.0	0.78	<0.2	1.84	0	0	0
1999	<1.0	<1.0	<1.0	0.47	<0.2	0.98	0	0	0
2000	<1.0	<1.0	<1.0	0.44	<0.2	1.03	0	0	0
2001	<0.5	<0.5	<0.5	0.50	<0.2	0.7	0	0	0
2002	<0.5	<0.5	<0.5	0.65	<0.2	0.83	0	0	0
2003	<0.5	<0.5	<0.5	1.37	<0.2	2.53	0	0	0
2004	<0.5	<0.5	<0.5	1.10	0.81	1.45	0	0	0
2005	<0.5	<0.5	<0.5	0.37	<0.2	0.68	0	0	0

* Values lower than the minimum detectable level of 0.02 ppm are shown as 0
Note: Refer to Exhibit E-68 for sampling locations.