92-10

Carolina Power & Light Company

DEC 17 1990

SOLID WASTE SECTION
DEC 19 1990

SERIAL NO.: ESS-90-1199

Mr. Bobby Lutfy
Solid Waste Section
P.O. Box 27687
Raleigh, North Carolina 27611-7687

RE: Shearon Harris Nuclear Power Plant 92-10
Monitoring Well Data

Dear Mr. Lutfy:

In accordance with Landfill Permit No. 92-10 for the Shearon Harris Nuclear Power Plant sanitary landfill, enclosed please find the results of the annual well monitoring data for 1990. The sampling was performed on May 10, ~~1989.~~ 1990 Wells #1, #2, and #3 are located near the Landfill Area 3, which is the only active area. Wells #4 and #5 are near Landfill Area 2, which is not yet developed. They were sampled to provide background data.

If you have any questions or comments concerning this matter, please contact J. M. McDowell at (919) 546-6920.

Yours very truly,

George J. Oliver, Ph.D.
Manager
Environmental Services Section

RKM:dcs (90-212.RKM)

Enclosure

pH - well #1

411 Fayetteville Street • P. O. Box 1551 • Raleigh, N. C. 27602

92-10

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SHEARON HARRIS NUCLEAR POWER PLANT

Sanitary Landfill Groundwater Monitoring
May 1990

(1990)

Water Analysis

Parameter (Units)	Well 1	Well 2	Well 3	Well 4	Well 5
pH (units)	11.0	7.0	8.1	8.2	8.2
Chloride (mg/l)	10.0	9.9	9.9	9.2	7.8
Specific Conductance (umho/cm)	240	650	630	420	460
Total Organic Carbon (mg/l)	4.3	2.8	4.0	2.2	8.3
Biochemical Oxygen Demand (mg/l)	<10	<10	<10	<10	<10
Chemical Oxygen Demand (mg/l)	<20	<20	<20	<20	<20
Total Dissolved Solids (mg/l)	160	150	420	250	330
Sulfate as SO_4 (mg/l)	1.3	7.2	39	1.8	39
Total Mercury (ug/l) (0.0011 Detection Limit)	<0.05	<0.05	<0.05	<0.05	<0.05
Total Copper (ug/l)	4.3	4.1	4.9	3.4	4.4
Total Iron (mg/l)	0.060	0.11	<0.05	<0.050	<0.05
Total Arsenic (mg/l)	0.003	0.002	0.003	0.001	0.002
Total Chromium (ug/l)	<2	<2	<2	3.1	<2
Total Cadmium (ug/l)	<0.1	<0.1	<0.1	0.2	0.2
Total Lead (ug/l)	2.2	<1	<1	<1	1.2
Total Manganese (mg/l)	0.02	0.56	0.42	0.02	0.06
Total Selenium (mg/l)	<0.001	<0.001	<0.001	<0.001	<0.001
Total Zinc (mg/l)	<0.02	<0.02	0.060	<0.02	<0.02
Fluoride (mg/l)	0.19	.13	.22	0.34	.23
Total Barium (ug/l)	22.0	29.0	69.0	21.0	46
Total silver (mg/l)	<0.05	<0.05	<0.05	<0.05	<0.05
Total Organic Halide (ug/l)	<5	<5	<5	<5	8.0

OK

(90-213.RKM)

Nitrate