Carmen Johnson
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Carolina Power & Light Company

OCT 10 1991

File: 593-6-C

SOLID WASTE SECTION
OCT 15 19

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

RE: Shearon Harris Nuclear Power Plant
Solid Waste Permit No. 92-10
Groundwater Monitoring Data

Dear Mr. Lufty:

In accordance with Solid Waste Permit No. 92-10 for the Shearon Harris Nuclear Power Plant sanitary landfill, enclosed please find the results of the 1991 annual sampling of the groundwater monitoring wells. The sampling was performed on May 13, 1991. Wells #1, #2, and #3 are located near 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 need additional information, please contact J. M. McDowell at (919) 546-6920.

Yours very truly,

Barry J. Ward for George J. Oliver

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

DRE/pc (91shnpgw)

Enclosure

Well #1 pH = 11.0 Grout Contamination?

Iron <0.05 ? Are the samples being filtered?

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 1991

1991

Water Analysis

std. (ppm)

Parameter (Units)	Well 1	Well 2	Well 3	Well 4	Well 5
Arsenic, Total (ug/l)	4.	3.	3.	2.	4.
Barium, Total (ug/l)	41.0	27.8	68.5	7.58	34.6
Cadmium, Total (ug/l)	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon, Total Organic (mg/l)	9.0	12.	3.0	2.0	1.8
Chloride (mg/l)	12.	9.0	19.	8.8	8.2
Chromium, Total (ug/l)	<2	<2	<2	<2	<2
Specific Conductance (umho/cm)	218.	90.0	588.	400.	430.
Copper, Total (ug/l)	1.5	1.8	2.1	1.6	2.0
Fluoride (mg/l)	0.15	<0.1	0.20	0.27	0.21
Halides, Total Organic (ug/l)	40.6	27.0	<5	9.8	12.1
Iron, Total (mg/l)	<0.05	<0.05	<0.05	<0.05	<0.05
Lead, Total (ug/l)	<1	<1	<1	<1	<1
Manganese, Total (mg/l)	<0.02	0.10	0.33	0.03	0.02
Mercury, Total (ug/l)	<0.05	<0.05	<0.05	<0.05	<0.05
Nitrate + Nitrite (as N) (mg/l)	<0.02	0.03	<0.02	<0.02	<0.02
Biochemical Oxygen Demand (mg/l)	<10	<10	<10	<10	<10
Chemical Oxygen Demand (mg/l)	<20	<20	<20	<20	<20
pH, (units)	11.0	7.4	8.4	8.5	8.4
Selenium, Total (ug/l)	<1	<1	<1	<1	<1
Silver, Total (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01
Solids, Total Dissolved (mg/l)	130	80.	390	210	270
Sulfate (as SO_4) (mg/l)	1.8	6.9	93.	1.3	46.
Zinc, Total (ug/l)	<20	<20	<20	<20	<20

? 0.05

6.5-8.5

(91-27.DRE)

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