

Cameron Johnson
Fac/Perm/Co ID# 92-10
Date 9/25/12
Doc ID#
DIN

CP&L

Carolina Power & Light Company

Shearon Harris Energy & Environmental Center
Route 1, Box 327
New Hill, North Carolina 27562

JUL 15 1988



Serial No.: ESS-88-322

Mr. Michael L. Babuin, Hydrogeologist
Solid and Hazardous Waste Management Branch
Division of Health Services
P. O. Box 2091
Raleigh, N.C. 27602-2091

RE: Shearon Harris Nuclear Power Plant Monitoring Well Data

Dear Mr. Babuin:

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 1988. The sampling was performed on May 9, 1988. 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 comments concerning this matter, please contact J. M. McDowell at (919) 836-6920.

Yours very truly,

G. H. Warriner
Manager

Environmental Services

TLP/ekb (87-3TLP)

Enclosure

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1988

Enclosure to ESS-88-322

SHEARON HARRIS NUCLEAR POWER PLANT

Sanitary Landfill Groundwater Monitoring
May 1988

Water Analysis

Parameter (Units)	Well 1	Well 2	Well 3	Well 4	Well 5
pH (units)	8.2	7.5	8.3	8.4	8.1
Chloride (mg/l)	22.	9.6	23.	9.6	11.
Specific Conductance (umho/cm)	390.	120.	550.	310.	860.
Total Organic Carbon (mg/l)	2.9	2.5	2.1	0.13	1.4
Biochemical Oxygen Demand (mg/l)	7.9	26.	11.	5.5	<5
Chemical Oxygen Demand (mg/l)	<20	<20	<20	<20	<20
Total Dissolved Solids (mg/l)	300.	120.	430.	300.	850.
Nitrate and Nitrite (as N) (mg/l)	0.02	0.03	0.03	0.02	0.23
Sulfate as SO ₄ (mg/l)	1.4	5.6	77.	<1	420
Total Mercury (ug/l)	<0.1	<0.1	<0.1	<0.1	<0.1
Total Copper (ug/l)	5.1	4.6	3.5	6.4	8.8
Total Iron (mg/l)	0.320	1.400	0.130	0.110	0.080
Total Arsenic (mg/l)	0.0040	0.0030	0.0030	0.0020	0.0020
Total Chromium (ug/l)	3.0	4.1	3.7	2.8	3.8
Total Cadmium (ug/l)	1.2	0.50	1.2	0.70	3.3
Total Lead (ug/l)	1.2	1.2	<1	<1	<1
Total Manganese (mg/l)	0.14	0.36	0.50	0.34	0.16
Total Selenium (mg/l)	<0.001	<0.001	<0.001	<0.001	<0.001
Total Zinc (mg/l)	<0.02	<0.02	<0.02	<0.02	<0.02
Flouride (mg/l)	0.29	0.10	0.24	0.43	0.41
Total Barium (mg/l)	0.04	0.04	0.11	0.02	0.06
Total Silver (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01
Total Organic Halide (mg/l)	0.01	0.03	<0.01	<0.01	0.02

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