North Carolina
Department of Environment and Natural Resources

Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary
William L. Meyer, Director

NCDENR

February 22, 2001

Mr. R. J. Duncan II
Plant General Manager
Carolina Power & Light
Harris Nuclear Plant
PO Box 165
New Hill, NC 27562

Carmen Johnson
Scanned by: Date: 10/9/12 Doc ID # RCO
92-10

RE: Water Quality Monitoring Requirements - Harris Nuclear Plant Landfill (Permit # 92-10)
Monitoring Parameter Change

Dear Mr. Duncan:

The purpose of this letter is to inform Carolina Power & Light of a required change in the list of monitoring parameters for the semi-annual groundwater monitoring program at the Harris Nuclear Plant landfill. Beginning with the next regularly scheduled sampling event, samples from groundwater monitoring wells at the landfill shall be analyzed for the attached list of parameters (attachment I). The maximum reporting practical quantification limits (pqls) for each parameter are included. Analysis for the old list is no longer required. However, field measurements for temperature, pH, and specific conductance continue to be required.

Although the current list of monitoring parameters has provided useful information about water quality at the landfill, the Solid Waste Section believes the new list is more representative of landfill leachate and will allow contaminants of concern to be more quickly identified in the event water quality becomes compromised. The requirement to upgrade the Harris Nuclear Plant's monitoring parameters continues the trend this agency has initiated. Most of the landfills in the state are now required to analyze for metals, other inorganics, and volatile organic compounds.

This change in water quality monitoring requirements does not apply to any radiological sampling and analysis. Carolina Power & Light should continue with the radiological analyses that the current Radioactive Materials License from the N.C. Division of Radiation Protection requires.

Thank you for your cooperation with this matter. If you have any questions, please call me at (919) 733-0692, extension 257.

Sincerely,

Larry Rose

Larry Rose
Groundwater Compliance Unit
Solid Waste Section

cc: Phil Prete - Head, Field Operations Branch
Mark Fry - Eastern District Supervisor
Robert Hearn - Waste Management Specialist
Bobby Lutfy - Hydrogeologist
Ellen Lorscheider - Hydrogeologist
R. T. Wilson - CP&L, Harris Nuclear Plant

Attachment

Attachment I

Harris Nuclear Plant Landfill

INORGANIC CONSTITUENTS:	PQL (ug/l)
1. Arsenic	5
2. Barium	500
3. Cadmium	1
4. Chromium	10
5. Lead	10
6. Mercury	0.5
7. Selenium	20
8. Silver	10
9. Sulfate	100

ORGANIC CONSTITUENTS: EPA Method 8260B	PQL (ug/l)
1. Acetone	100
2. Acrylonitrile	200
3. Benzene	5
4. Bromochloromethane	5
5. Bromodichloromethane	5
6. Bromoform; Tribromomethane	5
7. Carbon disulfide	100
8. Carbon tetrachloride	10
9. Chlorobenzene	5
10. Chloroethane; Ethyl chloride	10
11. Chloroform; Trichloromethane	5
12. Dibromochloromethane; Chlorodibromomethane	5
13. 1,2-Dibromo-3-chloropropane; DBCP	25
14. 1,2-Dibromoethane; Ethylene dibromide; EDB	5
15. o-Dichlorobenzene; 1,2-Dichlorobenzene	5
16. p-Dichlorobenzene; 1,4-Dichlorobenzene	5
17. trans-1,4-Dichloro-2-butene	100
18. 1,1-Dichloroethane; Ethylidene chloride	5
19. 1,2-Dichloroethane; Ethylene dichloride	5
20. 1,1-Dichloroethylene; 1,1-Dichloroethene; Vinylidene chloride	5
21. cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene	5
22. trans-1,2-Dichloroethylene; trans-1,2-Dichloroethene	5
23. 1,2-Dichloropropane; Propylene dichloride	5
24. cis-1,3-Dichloropropene	10
25. trans-1,3-Dichloropropene	10
26. Ethylbenzene	5
27. 2-Hexanone; Methyl butyl ketone	50
28. Methyl bromide; Bromomethane	10
29. Methyl chloride; Chloromethane	10
30. Methylene bromide; Dibromomethane	10
31. Methylene chloride; Dichloromethane	10
32. Methyl ethyl ketone; MEK; 2-Butanone	100
33. Methyl iodide; Iodomethane	10
34. 4-Methyl-2-pentanone; Methyl isobutyl ketone	100
35. Styrene	10
36. 1,1,1,2-Tetrachloroethane	5
37. 1,1,2,2-Tetrachloroethane	5
38. Tetrachloroethylene; Tetrachloroethene; Perchloroethylene	5
39. Toluene	5
40. 1,1,1-Trichloroethane; Methyl chloroform	5
41. 1,1,2-Trichloroethane	5
42. Trichloroethylene; Trichloroethene	5
43. Trichlorofluoromethane; CFC-11	5
44. 1,2,3-Trichloropropane	15
45. Vinyl acetate	50
46. Vinyl chloride	10
47. Xylenes	5