

Duke Power Company
Electric System Support Department
13339 Hagers Ferry Road
Huntersville, NC 28078-7929



DUKE POWER

May 16, 1995

Mr. Harry Aponte
SC Department of Health and Environmental Control
Bureau of Water Pollution Control
Water Quality Assessment and Enforcement Section
2600 Bull Street
Columbia, South Carolina 29201

Subject: **Duke Power Company - Catawba Nuclear Station**
WC Pond Ground Water Monitoring Data
NPDES Permit # SC0004278
File Code: CN-705.05
Certified Mail: Z-403319204

Dear Mr. Aponte:

Please find attached groundwater monitoring data for Catawba Nuclear Station's Conventional Wastewater Treatment Ponds. Samples were collected on March 13, 1995 in accordance with protocol outlined in the Sampling and Analysis Plan (SAP). Custody Sheet, Ground Water Monitoring Report and Ground Water Contours are included as part of this report.

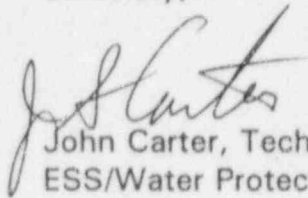
In general, groundwater geochemistry was similar to that presented in previous reports. The pH value for WCMW3 (5.7) was lower than the SDWA secondary limit of 6.5. Low pH values are typical of ground water in the Duke Power service area. Sulfates concentrations at WCMW1 continue to show an increasing trend, however sulfate concentrations at WCMW2 decreased from the September, 1994 sampling event. Total iron and total manganese concentrations at WCMW1 through WCMW3 were above the Secondary Maximum Contaminant Level for drinking water (SC R.61-58.5(O)). The concentration of selenium at WCMW1 increased from <1.0 ug/l in September '94 to 16.6 ug/l in April '95. Total copper concentrations at WCMW4 continue to be higher than those at WCMW1 through WCMW3 (Table 1).

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The increasing trend in sulfate concentration at the background well, WCMW1, is being evaluated.

Should you have any questions or comments regarding this report please feel free to contact John Mease at (704) 875-5347.

Sincerely,

A handwritten signature in cursive script, appearing to read "John Carter".

John Carter, Technical System Manager
ESS/Water Protection

jrm

Attachments

xc: Catawba District Hydrologist
CNS NRC Distribution List

bc:	Estridge, J. T.	MG03A5
	Harris, J. T.	CN01EM
	Jackson, A. P.	CN03CH
	Santini, R. A.	MG03A
	Vander Velde, G. A.	MG03A5
w/o:	Lascara, M. A.	MG03A5

DUKE POWER COMPANY April 18, 1995
GROUND-WATER MONITORING REPORT

Table 1

Facility: Catawba Nuclear Station Conventional Chemical Waste Treatment Ponds								
Sample Date: March 13, 1995 (GEOCHEMISTRY DATA)								
Parameter	Units	Storet Number	Monitoring Well Identification				FIELD BLANK	SC R.61-58 MCL
			WCMW1	WCMW2	WCMW3	WCMW4		
Lab Certificate No.		00008	99005	99005	99005	99005	99005	
Top of Well Casing	msl-feet		622.06	608.32	600.35	595.42		
Depth to Water	feet		16.34	19.49	17.83	12.58		
Water Elevation (0.01')	msl-feet	82545	605.72	588.83	582.52	582.84		
Well Depth	feet		25.96	30.02	30.06	21.52		
Field Spec. Conductance	umho/cm	00095	1954	499	113	120		
Field pH	Std. Units	00400	6.7	6.8	5.7	6.5		6.5-8.5*
Lab pH	Std. Units	00403						6.5-8.5*
Arsenic	mg/l	01002	0.0016	<0.001	<0.001	<0.001	<0.001	0.05
Alkalinity	mg/l		52	112	17	40	0.5	
Barium	mg/l	01007	0.068	0.053	0.065	0.027	<0.005	2
Cadmium	mg/l	01027	<0.0001	0.00039	<0.0001	<0.0001	<0.0001	0.005
Calcium	mg/l	00916	200.0	27.4	2.2	7.0	0.039	
Chloride	mg/l	00940	38	18	23	6	<1.0	250*
Chromium	mg/l	01034	0.0039	0.0056	0.0053	0.0061	0.0022	0.1
Copper	mg/l	01042	0.0064	0.0036	0.0032	0.022	0.0017	1.0*
Iron	mg/l	01045	1.99	6.95	6.69	2.096	<0.010	0.3*
Lead	mg/l	01051	<0.002	0.0021	0.0059	<0.002	<0.002	0.05
Magnesium	mg/l	00927	86.8	14.8	3.3	3.4	<0.03	
Manganese	mg/l	01055	0.059	0.304	0.255	0.019	<0.005	0.05*
Mercury	mg/l	71900	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.002
NO3 + NO2	mg/l	00630	0.81	0.78	<0.05	0.17	<0.05	10
Potassium	mg/l	00937	4.82	2.76	2.26	1.72	<0.12	
Selenium	mg/l	01147	0.017	<0.001	<0.001	<0.001	<0.001	0.05
Silver	mg/l	01077	0.0019	0.0002	0.0002	0.015	0.0002	0.05*
Sodium	mg/l	00929	78.4	42.1	14.8	11.1	<1.5	
Sulfate	mg/l	00945	1177	114	19	12	2.24	250*
Zinc	mg/l	01092	0.009	0.009	0.01	0.005	<0.005	5*

* SC R.61-58.5(O) Secondary Maximum Contaminant Level (MCL) for drinking water as reference only.



Authorized Release By: *Ronald A. Santini*

Date: *5/15/95*

SAM No.: ISO2174

Form 35226 (R10-93)

ANALYSES REQUESTED by bottle type—MUST NOTE PRESERVATIVE¹²
(may note special DL or Method)¹³

[illegible]

¹⁸ White, canary — LS Files Pink — Client Copy