

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



DUKE POWER

April 23, 1996

Ms. Sandra Hursey
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: Catawba Nuclear Station - NPDES Permit # SC0004278
WC Pond Groundwater Monitoring Data
File Code: CN-705.05
Certified Mail: Z 403 319 137

Dear Ms. Hursey:

Please find attached a groundwater monitoring report for Catawba Nuclear Station's conventional wastewater treatment ponds. Samples were collected on March 4, 1996 in accordance with the sampling and analysis plan.

All monitoring results met the South Carolina State groundwater standards. The sulfate concentration seen in the upgradient well WCMW1 continues to remain high.

Should you have questions or comments regarding this report please contact John Estridge at (704) 875-5965.

Sincerely,

John Carter, Technical System Manager
Environmental Division, Water Protection

jte/529

030040

Attachments

xc: Catawba District Hydrologist
CNS NRC Distribution List

9605030164 960423
PDR ADOCK 05000413
R PDR

C001/1

bc: Reece, J. E.-CN04EM
Jackson, A. P.-CN03CH
Santini, R. A.-MG03A
Lascara, M. A.-MG03A5
W.M. Miller - MG03C4

**DUKE POWER COMPANY
GROUND-WATER MONITORING REPORT**

April 3, 1996

Table 1

Facility: Catawba Nuclear Station Conventional Chemical Waste Treatment Ponds								
Sample Date: March 4, 1996 (GEOCHEMISTRY DATA)								
Parameter	Units	Storet Number	Monitoring Well Identification				FIELD BLANK	SC R.61-58 MC!
			WCMW1B	WCMW2	WCMW3	WCMW4		
Lab Certificate No.		00008	99005	99005	99005	99005	99005	
Top of Well Casing	mssl-feet		622.06	608.32	600.35	595.42		
Depth to Water	feet		16.88	19.61	18.05	13.50		
Water Elevation (0.01')	mssl-feet	82545	605.18	588.71	582.30	581.92		
Well Depth	feet		25.96	30.02	30.06	21.52		
Field Spec. Conductance	umho/cm	00095	2199	383	123	127		
Field pH	Std. Units	00400	6.4	6.7	5.9	6.5		6.5-8.5*
Arsenic	mg/l	01002	0.012	<0.0010	<0.0010	0.0014	<0.0010	0.050
Barium	mg/l	01007	0.066	0.035	0.047	0.020	<0.0050	2.0
Cadmium	mg/l	01027	0.00015	0.00012	0.00011	<0.00010	<0.00010	0.0050
Chromium	mg/l	01034	0.0052	0.0054	0.0032	0.0048	0.0011	0.10
Copper	mg/l	01042	0.0070	0.0019	0.0022	0.010	0.00050	1.0*
Iron	mg/l	01045	2.0	4.5	3.5	1.1	<0.010	0.3*
Lead	mg/l	01051	<0.0020	<0.0020	0.0027	<0.0020	<0.0020	0.050
Manganese	mg/l	01055	0.059	0.17	0.18	0.010	<0.0050	0.050*
Mercury	mg/l	71900	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.0020
Selenium	mg/l	01147	<0.0020	<0.0010	<0.0010	<0.0010	0.0012	0.050
Silver	mg/l	01077	<0.00020	<0.00020	<0.00020	0.015	<0.00020	0.10*
Sulfate	mg/l	00945	1081	57	23	21	<1.0	250*
Zinc	mg/l	01092	0.012	<0.0050	<0.0050	<0.0050	<0.0050	5.0*

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

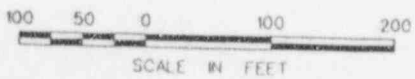
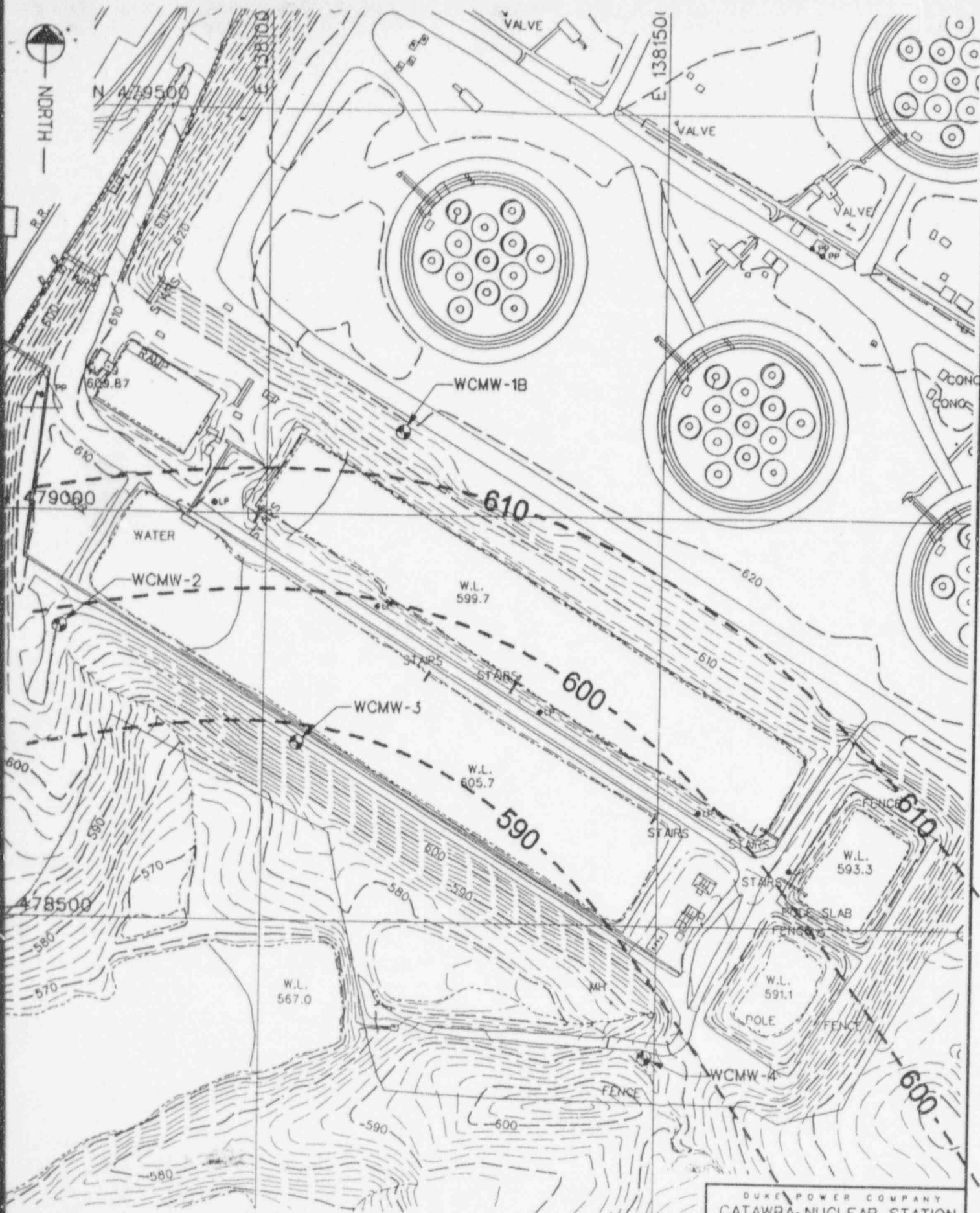
Authorized Release By: Howard B. Bates

Date: 4-11-96



N 479500

E 1381501



LEGEND

- EXISTING SITE TOPOGRAPHY
- ⊕ MONITORING WELL

DUKE POWER COMPANY
 CATAWBA NUCLEAR STATION

WASTE CHEMICAL POND
 MONITORING WELL
 LOCATIONS

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM *

Form 35226 (R10-93)

DUKE POWER COMPANY
Laboratory Services
MSB Bldg. # 7405 (MG03A1)
15339 Hagers Ferry Road
Huntersville, NC 28078

LS CLIENT CONTACT/PHONE: _____
CLIENT: T330 WASTEWATER
Project Name: LN3 WC POND
Results to/Phone: RA 2/5229
Address and/or PROFS: _____
Matrix (type of samples)/QC Level: _____
SAM No.: 9602305

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

FRAC	CHEMPLOT Number	Sample Description or ID ¹⁰	Collected using sampling instructions ¹¹			C/SO4	Metals	Hg	Aik									
			Date	Time	Name													
		WCMW-1B	3/4/96	0940	GF	1	1	1	1									
		WCMW-2	↓	1045	↓	1	1	1	1									
		WCMW-3	↓	1005	↓	1	1	1	1									
		WCMW-4	↓	0930	↓	1	1	1	1									
		FIELD BLANK	↓	1040	↓	1	1	1	1									

Sample Preserved Yes No¹⁴ Total # of samples¹⁵: 5 5 5 5

Name: Virginia J. Hall

Delivered by: <u>Virginia J. Hall</u>	Delivered by:	Delivered by:	Turnaround Requested ¹⁶ : <input type="checkbox"/> Routine (3-weeks) <input type="checkbox"/> Rush (2 weeks) <input type="checkbox"/> Emergency Rush <input type="checkbox"/> Date Results Requested _____
Date/Time: <u>3/4/96/1250</u>	Date/Time:	Date/Time:	
Received by: <u>3-4-96</u>	Received by:	Received by:	

Comments: _____

¹² See instructions on back of form.
¹³ _____
¹⁴ _____
¹⁵ _____
¹⁶ _____