

Table A-8. Analysis of Groundwater from Coastal Plain Formations at Savannah River Plant (mg/L)^a

Date sampled	Source of water			Properties		
	Well	Screen depth (m)	Formation	Temperature (°C)	pH ^c	Conductivity (micromhos/cm)
12/16/66	HC1E	13.1-14.6	Barnwell ^b	21.7	5.8	48
10/25/77	HC2F	22.6-24.1	Barnwell	23.0	5.04	NM
08/01/74	HC3F	16.8-18.3	Barnwell	NM	5.2	15
10/18/77	HC6B	25.9-27.4	Barnwell	22.0	6.30	NM
07/25/74	HC3E	28.3-29.9	Barnwell	NM	5.7	18
07/23/74	HC3D	36.9-38.4	McBean	NM	4.8	11
04/28/66	HC2H	40.8-43.9	McBean ^c	23.2	7.1	103
11/23/77	HC6A	42.4-43.9	McBean	21.2	6.93	NM
02/21/72	905-72G	33.5-48.8	McBean	NM	7.0	NM
07/19/74	HC3A	70.1-71.6	Congaree	NM	6.4	130
01/19/78	FC2A	70.4-71.6	Congaree	19.6	6.15	NM
02/21/72	905-31A	134.1-163.4	Cretaceous sediments	NM	5.5	17
02/29/72	905-41D	102.1-149.4	Cretaceous sediments	NM	6.6	NM
02/21/72	905-43H	201.2-259.1	Cretaceous sediments	NM	4.3	54
02/21/72	905-67U	187.5-220.2	Cretaceous sediments	NM	5.15	19

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Table A-8. Analysis of Groundwater from Coastal Plain Formations at Savannah River Plant (mg/L)^a (continued)

Date Sampled	Well	Chemical constituents ^d														TDS
		Ca ⁺²	Mg ⁺²	K ⁺	Na ⁺	Fe	Si	Al	Mn	HCO ₃ ⁻	Cl ⁻	SO ₄ ⁻²	NO ₃ ⁻	PO ₄ ⁻³	F ⁻	
12/16/66	HC1E	3.3	0.3	1.6	TR ^e	0.52	6.8	TR	0.02	12	6.0	1.0	3.8	0.0	0.0	34
10/25/77	HC2F	0.42	0.05	0.10	3.96	<0.2	3.9	<1	<0.02	NM	3.7	0.25	5.8	0.32	0.01	20
08/01/74	HC3F	1.7	0.43	0.25	2.9	<0.1	2.9	NM	NM	4.0	3.3	1.0	0.78	NM	NM	15
10/18/77	HC6B	3.72	0.03	1.91	2.20	<0.2	4.6	<1	<0.03	18.3	1.5	0.62	5.1	0.01	0.01	30
07/25/74	HC3E	5.4	0.25	0.54	2.5	<0.1	4.6	NM	NM	16.3	3.0	1.8	<0.0001	NM	NM	26
07/23/74	HC3D	0.8	0.37	0.22	1.7	<0.1	5.5	NM	NM	2.1	3.0	1.0	<0.0001	NM	NM	14
04/28/66	HC2H	11	0.4	3.0	TR	0.02	12	0.1	0.00	45	4.1	5.8	0.2	0.78	0.01	66
11/23/77	HC6A	13.8	0.02	0.64	2.57	<0.2	5.4	<1	<0.02	49.3	2.3	0.62	0.05	0.01	0.01	51
02/21/72	905-72G	7.0	9.2	0.90	12.5	0.012	0.60	NM	0.05	27.5	1.6	10.2	0.11	0.18	NM	56
07/19/74	HC3A	28	0.54	0.55	1.5	<0.1	9.4	NM	NM	72	2.8	2.2	0.001	NM	NM	81
01/19/78	FC2A	11.1	0.07	0.94	1.45	<0.2	10.7	<1	<0.03	42.7	3.92	10.5	0.05	0.12	0.01	61
02/21/72	905-31A	0.11	1.7	NM	1.75	0.01	0.56	NM	<0.05	5.4	0.8	2.3	2.3	0.06	NM	10
02/29/72	905-41D	1.4	3.5	4.3	11.0	<0.05	0.6	NM	<0.05	9.9	0.59	15.0	15.0	0.3	NM	42
02/21/72	905-43H	0.82	1.52	1.15	1.82	0.14	0.9	NM	0.05	0.97	0.60	11.3	11.3	--	NM	22
02/21/72	905-67U	0.22	1.5	0.43	1.6	0.05	0.44	NM	0.05	0.97	0.71	3.5	3.5	--	NM	10

^aAdapted from Du Pont, 1983. Formation terminology largely from Siple, 1967 (see Figure A-2).

^bUpper zone.

^cCalcareous zone.

^dKey: Ca⁺², calcium; Mg⁺², magnesium; K⁺, potassium; Na⁺, sodium; Fe, iron; Si, silicon; Al, aluminum; Mn, manganese; HCO₃⁻, bicarbonate; Cl⁻, chloride; SO₄⁻², sulfate; NO₃⁻, nitrate; PO₄⁻³, phosphate; F⁻, fluoride; TDS, total dissolved solids; NM, not measured; TR, trace.

^eMeasured at well head.