

Water-Data Report 2008

355302079091201 Local number OR-684, Piedmont Major Aquifer Study Site 44, near Carrboro, NC

Piedmont and Blue Ridge crystalline-rock aquifers

Felsic Metavolcanic Rock

Orange County, NC

LOCATION.--Lat 35°53'02.3", long 79°09'12.2" referenced to North American Datum of 1983, Orange County, NC, Hydrologic Unit 03030002, on Secondary Road 1948, 5 mi southwest of Carrboro.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 300 ft. Upper casing diameter 6 in; top of first opening 63 ft, bottom of last opening 300 ft.

PERIOD OF RECORD.--November 2007.

REMARKS.--Well is part of the National Water Quality Assessment Program (NAWQA).

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Time	Sample medium and type	Depth to water level, feet below LSD (72019)	Water level, depth below MP, feet (61055)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC (00095)
Nov									
12...	1300	Ground water, replicate	24.70	25.90	755	.1	1	7.4	485
12...	1301	QC - Ground water, replicate	--	--	--	--	--	--	--

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inf tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt infl pt titr., field, mg/L (00453)	Bromide, water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate, water, fltrd, mg/L (00945)
Nov													
12...	16.5	170	38.6	17.4	1.08	40.5	192	234	.18	20.8	.38	23.7	1.78
12...	--	--	--	--	--	--	--	--	--	--	--	--	--

355302079091201 Local number OR-684, Piedmont Major Aquifer Study Site 44, near Carrboro, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, flttd, mg/L as N (00608)	Nitrate + nitrite water flttd, mg/L as N (00631)	Nitrite water, flttd, mg/L as N (00613)	Total nitro- gen, wat flt by anal ysis, mg/L (62854)	Ortho- phos- phate, water, flttd, mg/L as P (00671)	Organic carbon, water, flttd, mg/L (00681)	Colipge F-spec, FAMP, 2-step, pres or absence /L (99335)	Colipge som, Ec CN13hst 2-step, pres or absence /L (99332)	E coli, MI MF, water, col/ 100 mL (90901)	Total coli- form, MI MF, water, col/ 100 mL (90900)	Alum- inum, water, flttd, µg/L (01106)	Anti- mony, water, flttd, µg/L (01095)
Nov													
12...	280	.052	<.04	<.002	.09	.025	1.2	U	U	<1	<1	E1.2	<.14
12...	--	.052	<.04	E.001	.17	.023	--	--	--	<1	<1	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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[QC, quality control sample. Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Arsenic water, flttd, µg/L (01000)	Barium, water, flttd, µg/L (01005)	Beryll- ium, water, flttd, µg/L (01010)	Boron, water, flttd, µg/L (01020)	Cadmium water, flttd, µg/L (01025)	Chrom- ium, water, flttd, µg/L (01030)	Cobalt water, flttd, µg/L (01035)	Copper, water, flttd, µg/L (01040)	Hydro- gen sulfide water, unflttd mg/L (71875)	Iron, water, flttd, µg/L (01046)	Lead, water, flttd, µg/L (01049)	Lithium water, flttd, µg/L (01130)	Mangan- ese, water, flttd, µg/L (01056)
Nov													
12...	.53	245	.01	10	<.04	<.12	.04	<1.0	U	134	.31	2.6	176
12...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Molyb- denum, water, flttd, µg/L (01060)	Nickel, water, flttd, µg/L (01065)	Selen- ium, water, flttd, µg/L (01145)	Silver, water, flttd, µg/L (01075)	Stront- ium, water, flttd, µg/L (01080)	Thall- ium, water, flttd, µg/L (01057)	Vana- dium, water, flttd, µg/L (01085)	Zinc, water, flttd, µg/L (01090)	1-Naph- thol, water, flttd 0.7u GF µg/L (49295)	2,6-Di- ethyl- aniline water, flttd 0.7u GF µg/L (82660)	2Chloro -2',6'- diethyl acet- anilide wat flt µg/L (61618)	CIAT, water, flttd, µg/L (04040)	2-Ethyl -6- methyl- aniline water, flttd, µg/L (61620)
Nov													
12...	E.2	E.12	<.04	<.1	390	<.04	.06	37.3	<.04	<.006	<.010	<.014	<.010
12...	--	--	--	--	--	--	--	--	--	--	--	--	--

355302079091201 Local number OR-684, Piedmont Major Aquifer Study Site 44, near Carrboro, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	3,4-Di-chloro-aniline water, fltrd, µg/L (61625)	3,5-Di-chloro-aniline water, fltrd, µg/L (61627)	4-Chloro-2methyl phenol, water, fltrd, µg/L (61633)	Aceto-chlor, water, fltrd, µg/L (49260)	Ala-chlor, water, fltrd, µg/L (46342)	alpha-Endo-sulfan, water, fltrd, µg/L (34362)	Atra-zine, water, fltrd, µg/L (39632)	Azin-phos-methyl oxon, water, fltrd, µg/L (61635)	Azin-phos-methyl, water, fltrd, 0.7u GF µg/L (82686)	Ben-flur-alin, water, fltrd, 0.7u GF µg/L (82673)	Car-baryl, water, fltrd, 0.7u GF µg/L (82680)	Carbo-furan, water, fltrd, 0.7u GF µg/L (82674)	Chlor-pyrifos oxon, water, fltrd, µg/L (61636)
Nov 12...	<.006	<.008	<.005	<.006	<.006	<.006	<.007	<.04	<.120	<.004	<.060	<.020	<.06
12...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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[QC, quality control sample. Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Chlor-pyrifos water, fltrd, µg/L (38933)	cis-Per-methrin water, fltrd, 0.7u GF µg/L (82687)	cis-Propi-conazole, water, fltrd, µg/L (79846)	Cyana-zine, water, fltrd, µg/L (04041)	Cyflu-thrin, water, fltrd, µg/L (61585)	lambda-Cyhalo-thrin, water, fltrd, µg/L (61595)	Cyper-methrin, water, fltrd, µg/L (61586)	DCPA, water, fltrd, 0.7u GF µg/L (82682)	Desulf-inyl-fipro-nil, water, fltrd, µg/L (62170)	Diazi-non, water, fltrd, µg/L (39572)	Dicro-tophos, water, fltrd, µg/L (38454)	Diel-drin, water, fltrd, µg/L (39381)	Dimeth-oate, water, fltrd, 0.7u GF µg/L (82662)
Nov 12...	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	<.012	<.005	<.08	<.009	<.006
12...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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[QC, quality control sample. Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Disulf-oton sulfone water, fltrd, µg/L (61640)	Disul-foton, water, fltrd, 0.7u GF µg/L (82677)	Endo-sulfan sulfate, water, fltrd, µg/L (61590)	EPTC, water, fltrd, 0.7u GF µg/L (82668)	Ethion monoxon, water, fltrd, µg/L (61644)	Ethion, water, fltrd, µg/L (82346)	Etho-prop, water, fltrd, 0.7u GF µg/L (82672)	Fenami-phos sulfone, water, fltrd, µg/L (61645)	Fenami-phos sulf-oxide, water, fltrd, µg/L (61646)	Fenami-phos, water, fltrd, µg/L (61591)	Desulf-inyl-fipro-nil amide, wat flt µg/L (62169)	Fipro-nil sulfide, water, fltrd, µg/L (62167)	Fipro-nil sulfone, water, fltrd, µg/L (62168)
Nov 12...	<.01	<.04	<.022	<.002	<.02	<.006	<.012	<.053	<.04	<.03	<.029	<.013	<.024
12...	--	--	--	--	--	--	--	--	--	--	--	--	--

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WATER-QUALITY DATA
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[QC, quality control sample. Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Fipronil, water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexazinone, water, fltrd, µg/L (04025)	Iprodione, water, fltrd, µg/L (61593)	Isofenphos, water, fltrd, µg/L (61594)	Mala-oxon, water, fltrd, µg/L (61652)	Mala-thion, water, fltrd, µg/L (39532)	Meta-laxyl, water, fltrd, µg/L (61596)	Methid-athion, water, fltrd, µg/L (61598)	Methyl para-oxon, water, fltrd, µg/L (61664)	Methyl para-thion, water, fltrd, 0.7u GF µg/L (82667)	Metolachlor, water, fltrd, µg/L (39415)	Metribuzin, water, fltrd, µg/L (82630)
Nov 12...	<.020	<.010	<.008	<.01	<.006	<.020	<.016	<.007	<.004	<.01	<.008	<.010	<.012
12...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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[QC, quality control sample. Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Molinate, water, fltrd, 0.7u GF µg/L (82671)	Myclobutanil water, fltrd, µg/L (61599)	Oxyfluorfen, water, fltrd, µg/L (61600)	Pendimethalin, water, fltrd, 0.7u GF µg/L (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate oxon, water, fltrd, 0.7u GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet water, fltrd, µg/L (61601)	Prometon, water, fltrd, µg/L (04037)	Prometryn, water, fltrd, µg/L (04036)	Propyzamide, water, fltrd, 0.7u GF µg/L (82676)	Propanil, water, fltrd, 0.7u GF µg/L (82679)	Propargite, water, fltrd, 0.7u GF µg/L (82685)
Nov 12...	<.003	<.010	<.006	<.012	<.03	<.040	<.05	<.008	<.01	<.006	<.004	<.006	<.04
12...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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[QC, quality control sample. Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Simazine, water, fltrd, µg/L (04035)	Tebu-thiuron water, fltrd, 0.7u GF µg/L (82670)	Tefluthrin, water, fltrd, µg/L (61606)	Terbufos oxon sulfone, water, fltrd, µg/L (61674)	Terbufos, water, fltrd, 0.7u GF µg/L (82675)	Terbutylazine, water, fltrd, µg/L (04022)	Thio-bencarb, water, fltrd, 0.7u GF µg/L (82681)	trans-Propiconazole, water, fltrd, µg/L (79847)	Tribu-phos, water, fltrd, µg/L (61610)	Tri-fluralin, water, fltrd, 0.7u GF µg/L (82661)	1,1,1,2-Tetra-chloro-ethane, water, unfltrd, µg/L (77562)	1,1,1-Tri-chloro-ethane, water, unfltrd, µg/L (34506)	1,1,2,2-Tetra-chloro-ethane, water, unfltrd, µg/L (34516)
Nov 12...	<.006	<.02	<.003	<.04	<.02	<.01	<.010	<.02	<.035	<.006	<.04	<.02	<.10
12...	--	--	--	--	--	--	--	--	--	--	<.04	<.02	<.10

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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[QC, quality control sample. Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	CFC-113 water, unfltrd µg/L (77652)	1,1,2-Tri- chloro- ethane, water, unfltrd µg/L (34511)	1,1-Di- chloro- ethane, water, unfltrd µg/L (34496)	1,1-Di- chloro- ethene, water, unfltrd µg/L (34501)	1,1-Di- chloro- propene water, unfltrd µg/L (77168)	1,2,3,4-Tetra- methyl- benzene water, unfltrd µg/L (49999)	1,2,3,5-Tetra- methyl- benzene water, unfltrd µg/L (50000)	1,2,3-Tri- chloro- benzene water, unfltrd µg/L (77613)	1,2,3-Tri- chloro- propane water, unfltrd µg/L (77443)	1,2,3-Tri- methyl- benzene water, unfltrd µg/L (77221)	1,2,4-Tri- chloro- benzene water, unfltrd µg/L (34551)	1,2,4-Tri- methyl- benzene water, unfltrd µg/L (77222)	Dibromo- chloro- propane water, unfltrd µg/L (82625)
Nov													
12...	<.04	<.06	<.04	<.02	<.04	<.1	<.1	<.1	<.12	<.1	<.1	E.05	<.5
12...	<.04	<.06	<.04	<.02	<.04	<.1	<.1	<.1	<.12	<.1	<.1	<.04	<.5

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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[QC, quality control sample. Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	1,2-Di- bromo- ethane, water, unfltrd µg/L (77651)	1,2-Di- chloro- benzene water, unfltrd µg/L (34536)	1,2-Di- chloro- ethane, water, unfltrd µg/L (32103)	1,2-Di- chloro- propane water, unfltrd µg/L (34541)	1,3,5-Tri- methyl- benzene water, unfltrd µg/L (77226)	1,3-Di- chloro- benzene water, unfltrd µg/L (34566)	1,3-Di- chloro- propane water, unfltrd µg/L (77173)	1,4-Di- chloro- benzene water, unfltrd µg/L (34571)	2,2-Di- chloro- propane water, unfltrd µg/L (77170)	2-Chloro- toluene water, unfltrd µg/L (77275)	2-Ethyl- toluene water, unfltrd µg/L (77220)	3-Chloro- propene water, unfltrd µg/L (78109)	4-Chloro- toluene water, unfltrd µg/L (77277)
Nov													
12...	<.04	<.02	<.1	<.02	<.04	<.04	<.1	<.02	<.06	<.04	<.04	<.08	<.04
12...	<.04	<.02	<.1	<.02	<.04	<.04	<.1	<.02	<.06	<.04	<.04	<.08	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 14 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	4-Iso- propyl- toluene water, unfltrd µg/L (77356)	Acetone water, unfltrd µg/L (81552)	Acrylo- nitrile water, unfltrd µg/L (34215)	Benzene water, unfltrd µg/L (34030)	Bromo- benzene water, unfltrd µg/L (81555)	Bromo- chloro- methane water, unfltrd µg/L (77297)	Bromo- di- chloro- methane water, unfltrd µg/L (32101)	Bromo- ethene, water, unfltrd µg/L (50002)	Tri- bromo- methane water, unfltrd µg/L (32104)	Bromo- methane water, unfltrd µg/L (34413)	Carbon di- sulfide water, unfltrd µg/L (77041)	Chloro- benzene water, unfltrd µg/L (34301)	Chloro- ethane, water, unfltrd µg/L (34311)
Nov													
12...	<.08	<4	<.4	<.02	<.02	E.03	<.04	<.1	<.08	<.4	E.03	<.02	<.1
12...	<.08	<4	<.4	<.02	<.02	E.03	<.04	<.1	<.08	<.4	E.03	<.02	<.1

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WATER-QUALITY DATA
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[QC, quality control sample. Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Chloro- methane water, unfltrd µg/L (34418)	cis- 1,2-Di- chloro- ethene, water, unfltrd µg/L (77093)	cis- 1,3-Di- chloro- propene water, unfltrd µg/L (34704)	Di- bromo- methane water, unfltrd µg/L (32105)	Di- bromo- methane water, unfltrd µg/L (30217)	Di- chloro- di- fluoro- methane wat unf µg/L (34668)	Di- chloro- methane water, unfltrd µg/L (34423)	Di- ethyl ether, water, unfltrd µg/L (81576)	Diiso- propyl ether, water, unfltrd µg/L (81577)	Ethyl methac- rylate, water, unfltrd µg/L (73570)	Ethyl methyl ketone, water, unfltrd µg/L (81595)	Ethyl- benzene water, unfltrd µg/L (34371)	Hexa- chloro- buta- diene, water, unfltrd µg/L (39702)
Nov													
12...	<.1	<.02	<.10	<.1	<.04	<.14	.1	<.1	<.06	<.1	<1.6	<.04	<.1
12...	<.1	<.02	<.10	<.1	<.04	<.14	.1	<.1	<.06	<.1	<1.6	<.04	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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[QC, quality control sample. Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Hexa- chloro- ethane, water, unfltrd µg/L (34396)	Iodo- methane water, unfltrd µg/L (77424)	Iso- butyl methyl ketone, water, unfltrd µg/L (78133)	Iso- propyl- benzene water, unfltrd µg/L (77223)	Methyl acrylo- nitrile water, unfltrd µg/L (81593)	Methyl acryl- ate, water, unfltrd µg/L (49991)	Methyl methac- rylate, water, unfltrd µg/L (81597)	Methyl tert- pentyl ether, water, unfltrd µg/L (50005)	meta- + para- Xylene, water, unfltrd µg/L (85795)	Naphth- alene, water, unfltrd µg/L (34696)	Methyl n-butyl ketone, water, unfltrd µg/L (77103)	n-Butyl benzene water, unfltrd µg/L (77342)	n- Propyl- benzene water, unfltrd µg/L (77224)
Nov													
12...	<.1	<.40	<.4	<.04	<.2	<.6	<.2	<.06	<.08	<.2	<.6	<.1	<.04
12...	<.1	<.40	<.4	<.04	<.2	<.6	<.2	<.06	<.08	<.2	<.6	<.1	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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[QC, quality control sample. Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	o- Xylene, water, unfltrd µg/L (77135)	sec- Butyl- benzene water, unfltrd µg/L (77350)	Styrene water, unfltrd µg/L (77128)	t-Butyl ethyl ether, water, unfltrd µg/L (50004)	Methyl t-butyl ether, water, unfltrd µg/L (78032)	tert- Butyl- benzene water, unfltrd µg/L (77353)	Tetra- chloro- ethene, water, unfltrd µg/L (34475)	Tetra- chloro- methane water, unfltrd µg/L (32102)	Tetra- hydro- furan, water, unfltrd µg/L (81607)	Toluene water, unfltrd µg/L (34010)	trans- 1,2-Di- chloro- ethene, water, unfltrd µg/L (34546)	trans- 1,3-Di- chloro- propene water, unfltrd µg/L (34699)	trans- 1,4-Di- chloro- 2- butene, wat unf µg/L (73547)
Nov													
12...	<.04	<.04	<.04	<.04	<.1	<.06	<.04	<.08	<1	1.12	<.02	<.10	<.6
12...	<.04	<.04	<.04	<.04	<.1	<.06	<.04	<.08	<1	1.03	<.02	<.10	<.6

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WATER-QUALITY DATA
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[QC, quality control sample. Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Tri-chloro-ethene, water, unfltrd µg/L (39180)	Tri-chloro-fluoro-methane, water, unfltrd µg/L (34488)	Tri-chloro-methane, water, unfltrd µg/L (32106)	Vinyl chloride, water, unfltrd µg/L (39175)	Di-chloro-vos, water, fltrd, µg/L (38775)	Gross alpha 30 day recount, wat unf Th-230, pCi/L (63016)	Gross alpha radioac 72 hr, wat unf Th-230, pCi/L (63014)	Gross beta 30 day recount, wat unf Cs-137, pCi/L (63017)	Gross beta radioac 72 hr, wat unf Cs-137, pCi/L (63015)	Ra-226, water, fltrd, radon method pCi/L (09511)	Ra-228, water, fltrd, pCi/L (81366)	Rn-222 2-sigma, water, unfltrd pCi/L (76002)	Rn-222, water, unfltrd pCi/L (82303)
Nov													
12...	<.02	<.08	.27	<.1	<.01	2.6	5.5	2.3	2.9	.57	.73	22	380
12...	<.02	<.08	.27	<.1	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO
SEPTEMBER 2008

Part 19 of 19

[QC, quality control sample. Remark codes:
<, less than; E, estimated; U, analyzed for
but not detected.]

Date	Uranium natural water, fltrd, µg/L (22703)	Data base number	Medium code
Nov			
12...	.03	01	WG
12...	--	04	WGQ