

WATER QUALITY DATA
MISCELLANEOUS STATION ANALYSES

Ground-water-quality data presented in these tables were collected from the following sites in Buncombe County during the 2005 water year in support of the Piedmont/Mountains ground-water study in cooperation with the North Carolina Department of Environment and Natural Resources, Division of Water Quality, Groundwater Section. Well locations for these sites listed in the following table are shown in figure 7.

Date	Time	Medium code	S	m	Sample type	Depth of well, feet below LSD (72008)	Altitude of land surface feet (72000)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unfl lab, uS/cm 25 degC (90095)	Specif. conductance, wat unfl lab, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
352840082381001 BU-068 BENT CREEK RS MW-1S (REGOLITH WELL) (LAT 35 28 39N LONG 082 38 10W)															
JUN 2005 27...	1215		6		9	22.0	2,200.99	--	4.9	--	5.5	5.5	17	17	13.7
352840082381002 BU-069 BENT CREEK RS MW-1I (TRANSITION ZONE WELL) (LAT 35 28 40N LONG 082 38 10W)															
JUN 2005 27...	1100		6		9	53.0	2,202.52	--	8.0	--	5.6	5.7	14	14	12.7
352840082381003 BU-070 BENT CREEK RS MW-1D (BEDROCK WELL) (LAT 35 28 41N LONG 082 38 12W)															
JUN 2005 27...	1250		6		9	221	2,201.77	--	.3	--	7.2	6.8	69	75	13.6
	1300		S		5	221	2,201.77	--	--	--	--	6.7	69	--	--
352854082380502 BU-072 BENT CREEK RS MW-2I (TRANSITION ZONE WELL) (LAT 35 28 54N LONG 082 38 05W)															
JUN 2005 29...	1300		6		9	36	2,191.72	--	7.4	--	5.3	6.1	45	11	12.2
352856082381201 BU-074 BENT CREEK RS MW-3S (REGOLITH WELL) (LAT 35 28 57N LONG 082 38 12W)															
JUN 2005 27...	1130		6		9	30	2,210.12	--	7.3	--	5.0	5.5	17	14	12.4
	1135		S		5	30	2,210.12	--	--	--	--	5.5	17	--	--
352856082381202 BU-075 BENT CREEK RS MW-3I (TRANSITION ZONE WELL) (LAT 35 28 57N LONG 082 38 12W)															
JUN 2005 27...	1400		6		9	50	2,209.45	717	7.7	77	5.2	5.7	19	16	12.9
352808082382601 BU-077 BENT CREEK RS MW-4S (REGOLITH WELL) (LAT 35 28 08N LONG 082 38 27W)															
JUN 2005 27...	1615		6		9	22	2,259.66	--	8.4	--	5.5	5.4	13	14	12.3
352808082382602 BU-078 BENT CREEK RS MW-4I (TRANSITION ZONE WELL) (LAT 35 28 08N LONG 082 38 26W)															
JUN 2005 27...	1545		6		9	41	2,258.80	--	9.1	--	5.6	5.7	14	11	12.8
352810082383501 BU-080 BENT CREEK RS MW-5S (REGOLITH WELL) (LAT 35 28 10N LONG 082 38 35W)															
JUN 2005 28...	1300		6		9	24	2,299.99	--	2.1	--	5.5	5.4	22	24	13.2
352810082383502 BU-081 BENT CREEK RS MW-5I (TRANSITION ZONE WELL) (LAT 35 28 11N LONG 082 38 35W)															
JUN 2005 28...	1100		6		9	47	2,302.19	--	6.1	--	5.6	5.6	18	20	13.2
352810082383503 BU-082 BENT CREEK RS MW-5D (BEDROCK WELL) (LAT 35 28 10N LONG 082 38 35W)															
JUN 2005 28...	1400		Q		2	300	2,304.84	--	--	--	--	E5.4	<3	--	--
	1430		S		5	300	2,304.84	--	--	--	--	6.3	50	--	--
	1440		6		9	300	2,304.84	--	4.2	--	6.2	6.4	50	50	14.6

MISCELLANEOUS STATION ANALYSES—Continued

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicar- bonate, wat unf incrm. titr., field, mg/L (00450)	Bromide water, fltrd, mg/L (71870)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)
352840082381001 BU-068 BENT CREEK RS MW-1S (REGOLITH WELL) (LAT 35 28 39N LONG 082 38 10W)													
JUN 2005 27...	.84	.561	.35	1.22	10	5	6	E.01	.63	<.1	9.46	1.1	14
352840082381002 BU-069 BENT CREEK RS MW-II (TRANSITION ZONE WELL) (LAT 35 28 40N LONG 082 38 10W)													
JUN 2005 27...	.72	.491	.30	.93	9	6	7	E.01	.51	<.1	8.80	.7	13
352840082381003 BU-070 BENT CREEK RS MW-1D (BEDROCK WELL) (LAT 35 28 41N LONG 082 38 12W)													
JUN 2005 27...	6.49	1.16	.81	4.71	24	23	27	.07	1.93	.2	24.0	8.6	68
JUN 2005 27...	6.64	1.16	.79	4.62	24	--	--	.07	1.90	.2	23.9	8.5	64
352854082380502 BU-072 BENT CREEK RS MW-2I (TRANSITION ZONE WELL) (LAT 35 28 54N LONG 082 38 05W)													
JUN 2005 29...	4.12	2.10	.39	1.10	18	13	16	.03	1.44	<.1	7.06	4.3	36
352856082381201 BU-074 BENT CREEK RS MW-3S (REGOLITH WELL) (LAT 35 28 57N LONG 082 38 12W)													
JUN 2005 27...	.69	.597	.66	1.26	9	6	8	.02	.78	<.1	9.89	.6	18
JUN 2005 27...	.69	.595	.63	1.25	11	--	--	.03	.77	<.1	9.89	.6	15
352856082381202 BU-075 BENT CREEK RS MW-3I (TRANSITION ZONE WELL) (LAT 35 28 57N LONG 082 38 12W)													
JUN 2005 27...	.96	.587	.83	1.12	9	6	7	E.02	.84	<.1	9.42	.9	15
352808082382601 BU-077 BENT CREEK RS MW-4S (REGOLITH WELL) (LAT 35 28 08N LONG 082 38 27W)													
JUN 2005 27...	.53	.454	.67	.67	8	5	5	E.02	.60	<.2	7.06	.2	13
352808082382602 BU-078 BENT CREEK RS MW-4I (TRANSITION ZONE WELL) (LAT 35 28 08N LONG 082 38 26W)													
JUN 2005 27...	.68	.428	.72	.79	10	6	7	E.01	.59	<.1	7.71	.3	10
352810082383501 BU-080 BENT CREEK RS MW-5S (REGOLITH WELL) (LAT 35 28 10N LONG 082 38 35W)													
JUN 2005 28...	.88	.627	.83	1.57	10	6	7	E.02	1.04	<.1	11.7	1.9	20
352810082383502 BU-081 BENT CREEK RS MW-5I (TRANSITION ZONE WELL) (LAT 35 28 11N LONG 082 38 35W)													
JUN 2005 28...	.73	.528	.58	1.58	10	6	7	.02	.90	<.1	11.9	.3	18
352810082383503 BU-082 BENT CREEK RS MW-5D (BEDROCK WELL) (LAT 35 28 10N LONG 082 38 35W)													
JUN 2005 28...	.02	.008	<.16	<.20	<5	--	--	E.01	<.20	<.1	E.03	<.2	<10
JUN 2005 28...	4.62	1.38	1.85	2.66	24	--	--	.03	.92	<.1	17.9	3.2	44
JUN 2005 28...	4.30	1.33	1.80	2.66	25	19	23	.03	.92	E.1	17.7	3.0	47

WATER QUALITY DATA

MISCELLANEOUS STATION ANALYSES—Continued

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Total nitro- gen, wat flt by anal ysis, mg/L (62854)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Alum- inum, water, fltrd, ug/L (01106)	Anti- mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryll- ium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chrom- ium, water, fltrd, ug/L (01030)
352840082381001 BU-068 BENT CREEK RS MW-1S (REGOLITH WELL) (LAT 35 28 39N LONG 082 38 10W)													
JUN 2005 27...	<.04	<.06	<.008	E.04	<.006	--	--	<2	--	--	<7.0	--	--
352840082381002 BU-069 BENT CREEK RS MW-1I (TRANSITION ZONE WELL) (LAT 35 28 40N LONG 082 38 10W)													
JUN 2005 27...	<.04	<.06	<.008	<.06	<.006	--	--	<2	--	--	<7.0	--	--
352840082381003 BU-070 BENT CREEK RS MW-1D (BEDROCK WELL) (LAT 35 28 41N LONG 082 38 12W)													
JUN 2005 27...	<.04	<.06	<.008	<.06	<.006	<2	<.20	<2	1	<.06	<7.0	<.04	<.8
JUN 2005 27...	<.04	<.06	<.008	<.06	<.006	--	--	<2	--	--	<7.0	--	--
352854082380502 BU-072 BENT CREEK RS MW-2I (TRANSITION ZONE WELL) (LAT 35 28 54N LONG 082 38 05W)													
JUN 2005 29...	<.04	.11	<.008	.12	<.006	--	--	<2	--	--	<7.0	--	--
352856082381201 BU-074 BENT CREEK RS MW-3S (REGOLITH WELL) (LAT 35 28 57N LONG 082 38 12W)													
JUN 2005 27...	<.04	<.06	<.008	<.06	<.006	--	--	<2	--	--	<7.0	--	--
JUN 2005 27...	<.04	<.06	<.008	<.06	<.006	--	--	<2	--	--	<7.0	--	--
352856082381202 BU-075 BENT CREEK RS MW-3I (TRANSITION ZONE WELL) (LAT 35 28 57N LONG 082 38 12W)													
JUN 2005 27...	<.04	E.05	<.008	E.04	.007	--	--	<2	--	--	<7.0	--	--
352808082382601 BU-077 BENT CREEK RS MW-4S (REGOLITH WELL) (LAT 35 28 08N LONG 082 38 27W)													
JUN 2005 27...	<.04	<.06	<.008	<.06	<.006	--	--	<2	--	--	<7.0	--	--
352808082382602 BU-078 BENT CREEK RS MW-4I (TRANSITION ZONE WELL) (LAT 35 28 08N LONG 082 38 26W)													
JUN 2005 27...	--	--	--	<.06	--	--	--	<2	--	--	<7.0	--	--
352810082383501 BU-080 BENT CREEK RS MW-5S (REGOLITH WELL) (LAT 35 28 10N LONG 082 38 35W)													
JUN 2005 28...	<.04	E.05	<.008	E.06	<.006	--	--	<2	--	--	<7.0	--	--
352810082383502 BU-081 BENT CREEK RS MW-5I (TRANSITION ZONE WELL) (LAT 35 28 11N LONG 082 38 35W)													
JUN 2005 28...	<.04	<.06	<.008	<.06	<.006	--	--	<2	--	--	<7.0	--	--
352810082383503 BU-082 BENT CREEK RS MW-5D (BEDROCK WELL) (LAT 35 28 10N LONG 082 38 35W)													
JUN 2005 28...	<.04	<.06	<.008	<.06	<.006	--	--	<2	--	--	<7.0	--	--
JUN 2005 28...	<.04	<.06	<.008	<.06	E.004	--	--	<2	--	--	<7.0	--	--
JUN 2005 28...	<.04	<.06	<.008	<.06	E.003	--	--	<2	--	--	<7.0	--	--

MISCELLANEOUS STATION ANALYSES—Continued

Date	Cobalt water, flt'd, ug/L (01035)	Copper, water, flt'd, ug/L (01040)	Iron, water, flt'd, ug/L (01046)	Lead, water, flt'd, ug/L (01049)	Mangan- ese, water, flt'd, ug/L (01056)	Molyb- denum, water, flt'd, ug/L (01060)	Nickel, water, flt'd, ug/L (01065)	Selen- ium, water, flt'd, ug/L (01145)	Silver, water, flt'd, ug/L (01075)	Zinc, water, flt'd, ug/L (01090)	Uranium natural water, flt'd, ug/L (22703)
352840082381001 BU-068 BENT CREEK RS MW-1S (REGOLITH WELL) (LAT 35 28 39N LONG 082 38 10W)											
JUN 2005 27...	--	--	<6	--	2.9	--	--	--	--	--	--
352840082381002 BU-069 BENT CREEK RS MW-1I (TRANSITION ZONE WELL) (LAT 35 28 40N LONG 082 38 10W)											
JUN 2005 27...	--	--	<6	--	.8	--	--	--	--	--	--
352840082381003 BU-070 BENT CREEK RS MW-1D (BEDROCK WELL) (LAT 35 28 41N LONG 082 38 12W)											
JUN 2005 27...	.145	<.4	642	<.08	18.1	<.4	.85	<3	<.2	119	.10
27...	--	--	675	--	20.8	--	--	--	--	--	--
352854082380502 BU-072 BENT CREEK RS MW-2I (TRANSITION ZONE WELL) (LAT 35 28 54N LONG 082 38 05W)											
JUN 2005 29...	--	--	<6	--	7.5	--	--	--	--	--	--
352856082381201 BU-074 BENT CREEK RS MW-3S (REGOLITH WELL) (LAT 35 28 57N LONG 082 38 12W)											
JUN 2005 27...	--	--	<6	--	9.9	--	--	--	--	--	--
27...	--	--	<6	--	9.7	--	--	--	--	--	--
352856082381202 BU-075 BENT CREEK RS MW-3I (TRANSITION ZONE WELL) (LAT 35 28 57N LONG 082 38 12W)											
JUN 2005 27...	--	--	<6	--	5.8	--	--	--	--	--	--
352808082382601 BU-077 BENT CREEK RS MW-4S (REGOLITH WELL) (LAT 35 28 08N LONG 082 38 27W)											
JUN 2005 27...	--	--	<6	--	3.4	--	--	--	--	--	--
352808082382602 BU-078 BENT CREEK RS MW-4I (TRANSITION ZONE WELL) (LAT 35 28 08N LONG 082 38 26W)											
JUN 2005 27...	--	--	<6	--	.9	--	--	--	--	--	--
352810082383501 BU-080 BENT CREEK RS MW-5S (REGOLITH WELL) (LAT 35 28 10N LONG 082 38 35W)											
JUN 2005 28...	--	--	<6	--	13.1	--	--	--	--	--	--
352810082383502 BU-081 BENT CREEK RS MW-5I (TRANSITION ZONE WELL) (LAT 35 28 11N LONG 082 38 35W)											
JUN 2005 28...	--	--	<6	--	1.9	--	--	--	--	--	--
352810082383503 BU-082 BENT CREEK RS MW-5D (BEDROCK WELL) (LAT 35 28 10N LONG 082 38 35W)											
JUN 2005 28...	--	--	E4	--	<.6	--	--	--	--	--	--
28...	--	--	54	--	66.0	--	--	--	--	--	--
28...	--	--	46	--	62.0	--	--	--	--	--	--

WATER QUALITY DATA

MISCELLANEOUS STATION ANALYSES—Continued

Date	Time	Medium code	S	m	Sample type	Depth of well, feet below LSD (72008)	Altitude of land surface feet (72000)	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc-tance, wat unfltrd lab, uS/cm 25 degC (90095)	Specif. conduc-tance, wat unfltrd lab, uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)
352827082383901 BU-083 BENT CREEK RS MW-7S (REGOLITH WELL) (LAT 35 29 27N LONG 082 38 39W)															
JUN 2005	28...		6	9	25	2,368.23	5.4	5.1	5.3	19	18	14.0	.73	.668	
352827082383902 BU-084 BENT CREEK RS MW-7I (TRANSITION ZONE WELL) (LAT 35 28 27N LONG 082 38 39W)															
JUN 2005	28...		6	9	50	2,369.04	7.4	5.6	5.5	14	17	14.1	.43	.678	
352827082383903 BU-085 BENT CREEK RS MW-7D (BEDROCK WELL) (LAT 35 29 27N LONG 082 38 39W)															
JUN 2005	29...		Q	2	285	2,369.88	--	--	E5.5	<3	--	--	<.02	<.008	
353014082360701 BU-101 BENT CREEK ARBORETUM WELL 3 (LAT 35 30 14N LONG 082 36 07W)															
JUN 2005	29...		6	9	265	--	2.9	6.7	6.9	69	73	14.2	5.60	1.91	
353014082360702 BU-102 BENT CREEK ARBORETUM WELL 4 (LAT 35 30 14N LONG 082 36 07W)															
JUN 2005	29...		6	9	400	--	1.9	6.7	7.0	91	87	18.6	10.8	2.08	
Date	Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, fixed end pt, lab, mg/L as CaCO3 (90410)	ANC, wat unfltrd, field, titr., mg/L as CaCO3 (00419)	Bicar-bonate, wat unfltrd, field, titr., mg/L (00450)	Bromide water, fltrd, mg/L (71870)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)		
352827082383901 BU-083 BENT CREEK RS MW-7S (REGOLITH WELL) (LAT 35 29 27N LONG 082 38 39W)															
JUN 2005	28...	1.43	.82	9	7	8	.03	1.10	<.1	6.41	.2	12	<.04	<.06	
352827082383902 BU-084 BENT CREEK RS MW-7I (TRANSITION ZONE WELL) (LAT 35 28 27N LONG 082 38 39W)															
JUN 2005	28...	.71	.60	7	5	5	.02	1.09	<.1	7.03	E.1	<10	<.04	<.06	
352827082383903 BU-085 BENT CREEK RS MW-7D (BEDROCK WELL) (LAT 35 29 27N LONG 082 38 39W)															
JUN 2005	29...	<.16	<.20	6	--	--	<.02	<.20	<.1	<.04	<.2	<10	<.04	<.06	
353014082360701 BU-101 BENT CREEK ARBORETUM WELL 3 (LAT 35 30 14N LONG 082 36 07W)															
JUN 2005	29...	2.11	4.40	23	21	25	--	.52	.1	27.6	11.9	66	<.04	<.06	
353014082360702 BU-102 BENT CREEK ARBORETUM WELL 4 (LAT 35 30 14N LONG 082 36 07W)															
JUN 2005	29...	1.05	5.12	38	34	41	--	1.21	.1	26.1	9.2	77	<.04	<.06	

MISCELLANEOUS STATION ANALYSES—Continued

Date	Nitrite water, fltrd, mg/L as N (00613)	Total nitrogen, wat flt by analysis, mg/L (62854)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic, water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium, water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt, water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)
352827082383901 BU-083 BENT CREEK RS MW-7S (REGOLITH WELL) (LAT 35 29 27N LONG 082 38 39W)													
JUN 2005 28...	<.008	.09	<.006	--	--	<2	--	--	E3.7	--	--	--	--
352827082383902 BU-084 BENT CREEK RS MW-7I (TRANSITION ZONE WELL) (LAT 35 28 27N LONG 082 38 39W)													
JUN 2005 28...	<.008	.17	<.006	--	--	<2	--	--	<7.0	--	--	--	--
352827082383903 BU-085 BENT CREEK RS MW-7D (BEDROCK WELL) (LAT 35 29 27N LONG 082 38 39W)													
JUN 2005 29...	<.008	.33	<.006	--	--	<2	--	--	<7.0	--	--	--	--
353014082360701 BU-101 BENT CREEK ARBORETUM WELL 3 (LAT 35 30 14N LONG 082 36 07W)													
JUN 2005 29...	<.008	<.06	<.006	<2	<.20	<2	8	<.06	<7.0	<.04	<.8	.057	.5
353014082360702 BU-102 BENT CREEK ARBORETUM WELL 4 (LAT 35 30 14N LONG 082 36 07W)													
JUN 2005 29...	<.008	E.03	<.006	<2	<.20	<2	3	<.06	<7.0	<.04	<.8	.053	.6

Date	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)
352827082383901 BU-083 BENT CREEK RS MW-7S (REGOLITH WELL) (LAT 35 29 27N LONG 082 38 39W)									
JUN 2005 28...	<6	--	4.3	--	--	--	--	--	--
352827082383902 BU-084 BENT CREEK RS MW-7I (TRANSITION ZONE WELL) (LAT 35 28 27N LONG 082 38 39W)									
JUN 2005 28...	<6	--	4.9	--	--	--	--	--	--
352827082383903 BU-085 BENT CREEK RS MW-7D (BEDROCK WELL) (LAT 35 29 27N LONG 082 38 39W)									
JUN 2005 29...	<6	--	<.6	--	--	--	--	--	--
353014082360701 BU-101 BENT CREEK ARBORETUM WELL 3 (LAT 35 30 14N LONG 082 36 07W)									
JUN 2005 29...	1,170	.44	38.9	<.4	.37	<3	<.2	291	.07
353014082360702 BU-102 BENT CREEK ARBORETUM WELL 4 (LAT 35 30 14N LONG 082 36 07W)									
JUN 2005 29...	20	<.08	19.2	<.4	.44	<3	<.2	88.3	.06

Remark codes used in this table:

- < -- Less than.
- E -- Estimated.

Medium codes used in this table:

- 6 -- Ground-water sample.
- S -- Ground-water quality-control sample.

Sample Type codes used in this table:

- 9 -- Regular
- 5 -- Duplicate
- 2 -- Blank