

Water-Data Report 2010

03448800 SWANNANOA RIVER AT INTERSTATE 40 AT BLACK MOUNTAIN, NC

French Broad-Holston Basin
Upper French Broad Subbasin

LOCATION.--Lat 35°37'08.14", long 82°18'28.13" referenced to North American Datum of 1983, Buncombe County, NC, Hydrologic Unit 06010105, on right bank, at US Highway 70 entrance to Interstate 40, 150 ft upstream, and 0.8 mi east of Black Mountain.

DRAINAGE AREA.--4.24 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 2009 to September 2010 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 2,390 ft above National Geodetic Vertical Datum of 1929, from topographic map. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record and current water year from rating curve extended above 100 ft³/s on basis of slope-conveyance computation of peak flow. Maximum discharge and gage height for current water year also occurred March 22.

03448800 SWANNANOA RIVER AT INTERSTATE 40 AT BLACK MOUNTAIN, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.5	10	6.3	13	14	11	12	7.5	6.0	2.5	2.6	1.8
2	4.1	7.2	25	13	22	12	12	7.4	6.0	2.4	2.5	1.7
3	3.7	6.6	15	12	18	11	12	13	5.4	2.4	2.3	1.7
4	3.3	6.1	12	11	16	11	11	8.4	4.9	2.3	2.5	1.6
5	7.2	5.7	11	11	24	10	11	7.6	4.7	2.3	7.5	1.7
6	3.9	5.3	9.4	10	21	9.9	11	7.3	4.6	2.2	3.2	1.6
7	3.5	5.0	8.5	9.9	17	9.8	10	7.0	4.4	2.1	2.4	1.6
8	3.2	4.8	11	9.4	16	9.8	18	6.8	4.1	2.0	2.2	1.8
9	3.1	4.8	32	8.8	16	10	13	6.5	4.1	2.0	2.2	1.7
10	3.1	23	17	8.5	15	10	11	6.5	4.2	2.0	4.3	1.6
11	3.1	65	14	8.3	14	11	11	7.1	3.9	2.1	2.6	2.7
12	3.6	28	12	8.3	14	19	11	6.6	3.9	4.1	2.2	2.3
13	3.4	17	14	8.0	13	20	10	6.4	3.8	2.6	2.1	1.7
14	8.8	13	11	7.9	13	16	9.9	8.7	3.6	2.2	2.2	1.6
15	5.5	11	10	7.7	13	15	9.7	7.6	3.7	2.2	2.2	1.6
16	4.5	9.4	9.6	8.1	12	14	9.7	7.8	4.0	6.4	4.0	1.5
17	4.8	8.8	9.3	37	12	11	9.6	8.5	3.6	3.2	3.0	1.7
18	4.2	14	12	20	12	11	9.3	7.3	3.2	2.5	2.4	1.5
19	4.0	10	11	17	11	11	9.1	6.6	3.2	3.2	2.5	1.5
20	4.0	9.1	9.6	17	12	10	8.8	6.2	3.1	5.5	2.3	1.4
21	4.1	8.4	9.3	18	12	18	8.4	8.4	3.0	3.1	4.4	1.3
22	4.0	9.5	9.3	16	16	42	8.2	6.8	2.9	2.5	2.7	2.0
23	5.4	10	9.6	15	16	23	8.1	6.1	2.8	2.3	2.2	1.9
24	8.3	8.5	11	64	15	19	9.3	6.4	2.7	2.1	2.1	1.2
25	4.9	8.1	76	70	14	17	12	10	2.8	5.3	2.0	1.2
26	4.7	7.6	34	34	13	16	8.9	5.8	2.7	2.8	3.8	3.7
27	9.9	7.4	23	25	12	14	8.4	5.5	2.6	2.4	2.4	6.2
28	8.7	6.9	18	20	12	18	8.1	5.8	2.7	2.5	2.1	4.0
29	6.4	6.7	15	18	---	15	7.8	5.4	2.9	2.3	2.0	2.7
30	6.1	6.9	13	18	---	14	7.6	5.0	2.5	2.1	1.9	3.8
31	8.1	---	15	15	---	13	---	8.6	---	2.3	1.8	---
Mean	5.04	11.5	15.9	18.0	14.8	14.6	10.2	7.25	3.73	2.77	2.73	2.08
Max	9.9	65	76	70	24	42	18	13	6.0	6.4	7.5	6.2
Min	3.1	4.8	6.3	7.7	11	9.8	7.6	5.0	2.5	2.0	1.8	1.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2009 - 2010, BY WATER YEAR (WY)

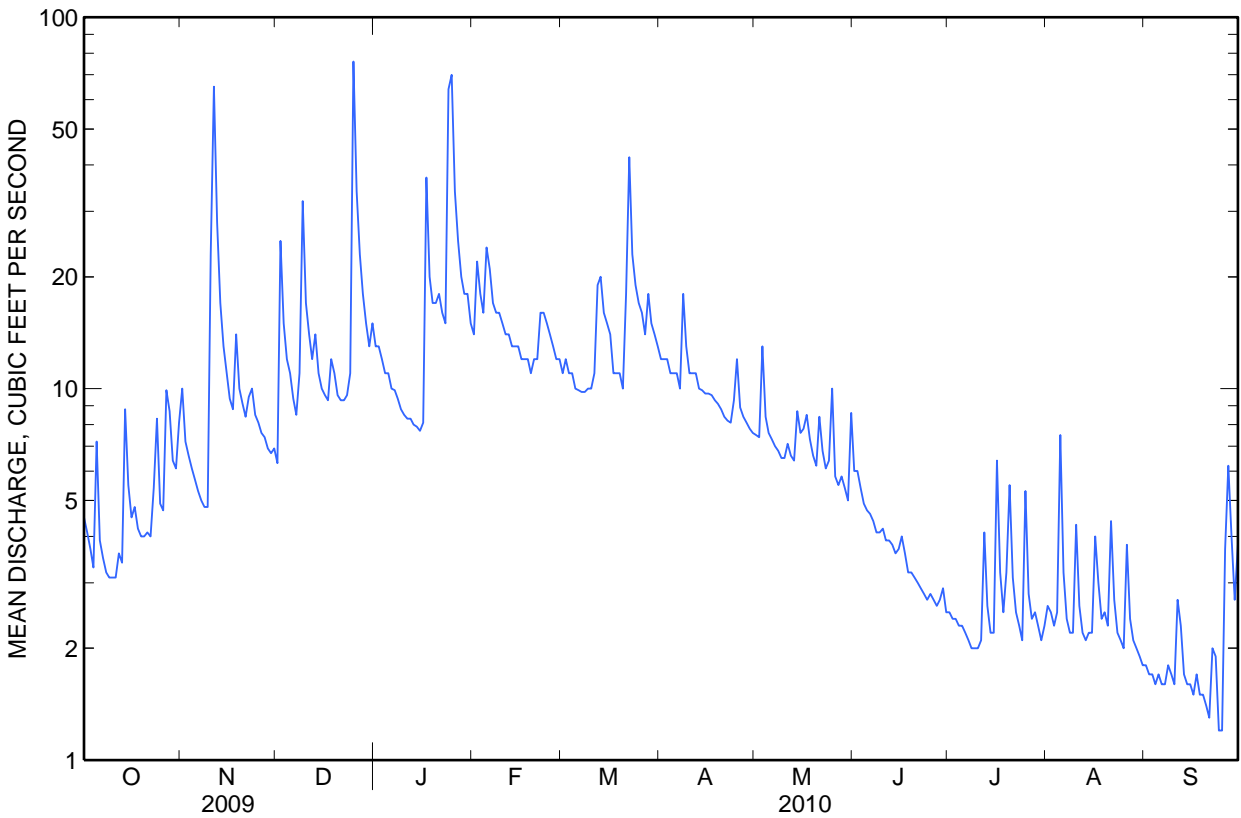
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.04	11.5	15.9	18.0	14.8	14.6	8.58	8.85	5.30	3.22	3.00	5.83
Max	5.04	11.5	15.9	18.0	14.8	14.6	10.2	10.4	6.87	3.66	3.26	9.57
(WY)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2009)	(2009)	(2009)	(2009)	(2009)
Min	5.04	11.5	15.9	18.0	14.8	14.6	6.97	7.25	3.73	2.77	2.73	2.08
(WY)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2009)	(2010)	(2010)	(2010)	(2010)	(2010)

03448800 SWANNANOA RIVER AT INTERSTATE 40 AT BLACK MOUNTAIN, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2009 - 2010	
Annual mean			9.02		9.02	
Highest annual mean					9.02	2010
Lowest annual mean					9.02	2010
Highest daily mean	91	May 27	76	Dec 25	91	May 27, 2009
Lowest daily mean	2.4	Aug 26	1.2	Sep 24	1.2	Sep 24, 2010
Annual seven-day minimum	2.6	Aug 24	1.5	Sep 15	1.5	Sep 15, 2010
Maximum peak flow			^a 265	Jan 24	^a 306	Jun 11, 2009
Maximum peak stage			^a 3.52	Jan 24	3.71	Jun 11, 2009
Instantaneous low flow			1.0	Sep 24	1.0	Sep 24, 2010
10 percent exceeds			17		17	
50 percent exceeds			7.6		7.6	
90 percent exceeds			2.1		2.1	

^a See Remarks.



03448800 SWANNANOA RIVER AT INTERSTATE 40 AT BLACK MOUNTAIN, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2009-10.

REMARKS.--Station is operated in cooperation with the North Carolina Department of Transportation.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 1 of 13

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Begin time	End date	End time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)
10-21-2009	1200	10-21-2009	1300	Surface water	Regular	715	4.0	9.5
10-21-2009	1215	10-21-2009	1315	<i>QC sample - Surface water</i>	<i>Replicate</i>	--	--	--
10-21-2009	1600	10-29-2009	1200	<i>QC sample - Artificial</i>	<i>Blank</i>	--	--	--
11-10-2009	0757	11-10-2009	1955	Surface water	Composite (time)	--	--	--
11-10-2009	2115	11-12-2009	0031	Surface water	Composite (time)	--	--	--
11-17-2009	1100	11-17-2009	1200	Surface water	Regular	708	8.5	9.8
12-11-2009	1200	12-11-2009	1300	Surface water	Regular	715	14	11.2
01-26-2010	1000	01-26-2010	1100	Surface water	Regular	710	34	11.2
02-18-2010	1100	02-18-2010	1200	Surface water	Regular	717	12	11.8
02-18-2010	1115	02-18-2010	1215	<i>QC sample - Surface water</i>	<i>Replicate</i>	--	--	11.6
02-22-2010	0637	02-22-2010	0946	Surface water	Composite (time)	--	--	--
03-12-2010	1640	03-13-2010	0233	Surface water	Composite (time)	--	--	--
03-21-2010	1707	03-22-2010	0637	Surface water	Composite (time)	--	--	--
03-23-2010	1200	--	--	Surface water	Regular	717	23	10.2
04-02-2010	1130	04-02-2010	1230	<i>QC sample - Artificial</i>	<i>Blank</i>	--	--	--
04-13-2010	1145	--	--	<i>QC sample - Surface water</i>	<i>Replicate</i>	--	--	--
04-13-2010	1200	--	--	Surface water	Regular	715	10	9.2

03448800 SWANNANOA RIVER AT INTERSTATE 40 AT BLACK MOUNTAIN, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 13

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, μS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Sampler type (84164)	Sampling method (82398)	Dissolved solids dried at 105 degrees Celsius, water, filtered, milligrams per liter (00515)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)
10-21-2009	91	6.3	54	10.2	US DH-81 Teflon	EWI non-isokinetic	41	39
10-21-2009	--	6.5	58	12.8	Sampler point auto	Point sample	40	46
10-21-2009	--	7.0	--	--	Sampler point auto	Other	--	< 10
11-10-2009	--	6.7	46	13.0	Sampler point auto	Point sample	37	41
11-10-2009	--	7.0	33	9.2	Sampler point auto	Point sample	23	20
11-17-2009	98	7.2	44	11.8	US DH-81 Teflon	EWI non-isokinetic	27	31
12-11-2009	94	6.5	37	5.2	US DH-81 Teflon	EWI non-isokinetic	19	35
01-26-2010	97	6.1	31	6.0	US DH-81 Teflon	EWI non-isokinetic	28	23
02-18-2010	95	6.0	44	3.7	US DH-81 Teflon	EWI non-isokinetic	< 10	30
02-18-2010	--	6.3	44	4.3	US DH-81 Teflon	EWI non-isokinetic	38	41
02-22-2010	--	7.2	417	9.8	Sampler point auto	Point sample	218	216
03-12-2010	--	6.8	213	12.9	Sampler point auto	Point sample	--	134
03-21-2010	--	7.0	105	4.2	Sampler point auto	Point sample	--	--
03-23-2010	91	6.5	38	7.8	US DH-81 Teflon	EWI non-isokinetic	--	--
04-02-2010	--	--	--	--	Sampler point auto	Point sample	--	< 10
04-13-2010	--	6.6	47	19.4	Sampler point auto	Point sample	25	30
04-13-2010	93	6.4	43	13.0	US DH-81 Teflon	EWI non-isokinetic	30	36

03448800 SWANNANOA RIVER AT INTERSTATE 40 AT BLACK MOUNTAIN, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 3 of 13

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Hardness, water, mg/L as CaCO ₃ (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Total solids dried at 105 degrees Celsius, water, unfiltered, milligrams per liter (00500)	Calcium, water, filtered, mg/L (00915)	Magne sium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, inflection- point, incremental titration method, field, mg/L as CaCO ₃ (00419)	Alkalinity, water, filtered, fixed endpoint titration, laboratory, mg/L as CaCO ₃ (29801)
10-21-2009	14.7	< 15	43	3.58	1.41	1.01	3.80	12.1	14
10-21-2009	14.6	< 15	40	3.55	1.39	1.01	3.81	--	14
10-21-2009	< .18	--	< 13	< .04	< .016	< .06	< .10	--	--
11-10-2009	12.7	42	70	3.24	1.11	1.49	3.15	--	13
11-10-2009	10.6	99	108	2.69	.935	1.54	1.82	--	10
11-17-2009	12.8	< 15	32	3.16	1.20	.82	2.98	7.6	11
12-11-2009	10.7	< 15	31	2.63	1.00	.66	2.30	5.6	10
01-26-2010	8.92	< 15	28	2.14	.870	.61	2.01	4.5	E 7
02-18-2010	9.66	30	25	2.33	.934	.61	3.66	6.6	9
02-18-2010	9.71	24	29	2.34	.941	.64	3.66	--	9
02-22-2010	18.5	66	293	5.03	1.44	1.31	67.1	--	10
03-12-2010	15.1	350	262	4.00	1.24	1.24	28.8	--	11
03-21-2010	10.7	362	411	2.80	.913	1.09	15.0	--	--
03-23-2010	9.54	< 15	--	2.37	.882	.63	3.07	5.3	--
04-02-2010	< .18	--	< 13	< .04	< .016	< .06	< .10	--	--
04-13-2010	10.7	< 15	33	2.67	.980	.70	3.24	--	E 7
04-13-2010	10.6	< 15	33	2.64	.969	.71	3.28	7.5	E 7

03448800 SWANNANOA RIVER AT INTERSTATE 40 AT BLACK MOUNTAIN, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 4 of 13

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Bi carbonate, water, unfiltered, inflection- point, incremental	Bromide, water, filtered, mg/L (71870)	Chloride, water, filtered, mg/L (00940)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Orthophos phate, water, filtered, mg/L as P (00671)	Phosphorus, water, unfiltered, mg/L as P (00665)
	titration method, field, mg/L (00450)				nitrogen, water, unfiltered, mg/L as N (00625)				
10-21-2009	14.8	E .02	5.27	3.84	.16	.040	.29	E .004	.016
10-21-2009	--	E .02	5.28	3.80	.16	.037	.29	E .004	.013
10-21-2009	--	< .02	< .12	< .18	E .07	--	< .04	--	< .008
11-10-2009	--	< .02	4.21	3.81	.53	< .020	.21	E .006	.091
11-10-2009	--	< .02	1.89	3.84	.55	< .020	.29	.008	.154
11-17-2009	9.2	E .01	3.65	4.00	.18	.034	.50	E .006	.010
12-11-2009	6.8	< .02	2.90	3.77	.12	.023	.42	E .004	E .007
01-26-2010	5.5	< .02	2.64	3.96	.12	E .015	.40	E .006	.016
02-18-2010	8	E .01	6.10	3.50	< .10	.042	.33	E .007	E .006
02-18-2010	--	< .02	6.07	3.49	< .10	.047	.33	E .007	E .008
02-22-2010	--	E .02	115	5.13	.57	.076	.35	E .006	.130
03-12-2010	--	E .01	49.7	4.80	.96	.032	.32	E .005	.331
03-21-2010	--	< .02	23.7	4.28	1.2	.032	.30	E .005	.478
03-23-2010	6.5	E .01	4.88	3.73	.16	.020	.30	E .006	.010
04-02-2010	--	< .02	< .12	< .18	E .06	--	< .04	--	< .008
04-13-2010	--	E .01	4.92	3.04	E .10	.023	.27	E .006	.011
04-13-2010	9.1	E .01	4.90	3.09	.10	.022	.27	E .007	.009

03448800 SWANNANOA RIVER AT INTERSTATE 40 AT BLACK MOUNTAIN, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 5 of 13

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Total nitrogen, water, unfiltered, mg/L (00600)	Aluminum, water, filtered, μg/L (01106)	Aluminum, water, unfiltered, recover able, μg/L (01105)	Cadmium, water, filtered, μg/L (01025)	Cadmium, water, unfiltered, μg/L (01027)	Chromium, water, filtered, μg/L (01030)	Chromium, water, unfiltered, recover able, μg/L (01034)	Copper, water, filtered, μg/L (01040)	Copper, water, unfiltered, recover able, μg/L (01042)	Iron, water, filtered, μg/L (01046)
	10-21-2009	.45	5.5	175	E .01	< .04	< .12	E .27	< 1.0	E .77
10-21-2009	.45	5.6	116	E .01	< .04	< .12	< .42	< 1.0	< 1.4	184
10-21-2009	< .11	--	< 6	--	E .03	--	< .42	--	< 1.4	--
11-10-2009	.74	33.5	777	E .01	.05	.15	1.2	1.3	3.6	170
11-10-2009	.84	100	1,770	E .01	.06	.14	2.6	1.1	4.9	153
11-17-2009	.68	15.9	84	E .01	< .04	< .12	< .42	< 1.0	< 1.4	155
12-11-2009	.54	14.2	61	E .01	< .04	< .12	< .42	E .65	< 1.4	214
01-26-2010	.52	18.1	221	.02	E .03	E .08	.51	< 1.0	E .82	118
02-18-2010	< .43	13.9	50	E .01	< .04	< .12	< .42	< 1.0	< 1.4	218
02-18-2010	< .43	10.7	58	E .01	< .04	< .12	< .42	< 1.0	< 1.4	215
02-22-2010	.92	35.9	1,840	.04	.09	.12	3.9	E .89	5.9	57
03-12-2010	1.3	82.7	4,630	.04	.14	.32	10.2	2.8	12.0	102
03-21-2010	1.5	140	6,100	E .02	.15	.27	8.5	1.3	13.6	163
03-23-2010	.46	14.7	154	E .02	< .04	< .12	< .42	< 1.0	< 1.4	156
04-02-2010	< .10	--	< 6	--	< .04	--	< .42	--	< 1.4	--
04-13-2010	E .37	10.5	113	E .02	< .04	< .12	< .42	< 1.0	< 1.4	141
04-13-2010	.37	9.8	103	E .01	< .04	< .12	< .42	< 1.0	E .79	150

03448800 SWANNANOA RIVER AT INTERSTATE 40 AT BLACK MOUNTAIN, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 6 of 13

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Iron, water, unfiltered, recover able, μg/L (01045)	Lead, water, filtered, μg/L (01049)	Lead, water, unfiltered, recover able, μg/L (01051)	Manga nese, water, filtered, μg/L (01056)	Manganes e, water, unfiltered, recover able, μg/L (01055)	Mercury, water, filtered, μg/L (71890)	Mercury, water, unfiltered, recover able, μg/L (71900)	Nickel, water, filtered, μg/L (01065)	Nickel, water, unfiltered, recover able, μg/L (01067)	Zinc, water, filtered, μg/L (01090)
10-21-2009	870	E .03	.46	102	123	< .010	< .010	.43	.58	4.2
10-21-2009	698	E .03	.35	106	118	< .010	< .010	.48	.55	4.8
10-21-2009	< 9	--	< .06	--	< .8	--	< .010	--	< .36	--
11-10-2009	3,290	.14	2.50	36.5	178	< .010	< .010	.55	1.4	5.9
11-10-2009	3,510	.15	5.29	15.0	173	< .010	.010	.55	2.4	5.8
11-17-2009	425	.03	.22	73.5	80.7	< .010	< .010	.44	.45	4.1
12-11-2009	329	.08	.27	64.2	65.3	< .010	< .010	.47	.40	6.4
01-26-2010	516	.03	.52	42.2	51.1	< .010	< .010	.47	.56	6.1
02-18-2010	382	E .03	.12	80.5	80.7	< .010	< .010	.46	.40	5.7
02-18-2010	394	E .02	.12	79.6	81.8	< .010	< .010	.42	.53	6.0
02-22-2010	4,840	.06	7.62	86.8	157	< .010	< .010	.87	3.0	16.1
03-12-2010	9,660	.16	26.3	40.5	304	< .010	.017	1.1	5.7	11.4
03-21-2010	11,100	.20	16.3	41.2	368	< .010	.024	.65	6.4	6.4
03-23-2010	473	.03	.33	59.5	66.3	< .010	< .010	.47	.51	6.0
04-02-2010	< 9	--	< .06	--	< .8	--	< .010	--	< .36	--
04-13-2010	490	E .03	.28	66.0	74.0	< .010	< .010	.32	.38	4.0
04-13-2010	443	.04	.27	62.1	73.7	< .010	< .010	.27	.36	3.5

03448800 SWANNANOA RIVER AT INTERSTATE 40 AT BLACK MOUNTAIN, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 7 of 13

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Zinc, water, unfiltered, recoverable, μg/L (01092)	Arsenic, water, filtered, μg/L (01000)	Arsenic, water, unfiltered, μg/L (01002)	Selenium, water, filtered, μg/L (01145)	Selenium, water, unfiltered, μg/L (01147)	1,4- Dichloro benzene, water, unfiltered, recoverable, μg/L (34571)	2,4,6- Trichlorop henol, water, unfiltered, recoverabl e, microgram s per liter (34621)	2,4- Dichloroph enol, water, unfiltered, recoverabl e, microgram s per liter (34601)	2,4- Dimethylp henol, water, unfiltered, recoverabl e, microgram s per liter (34606)	2-Methyl- 4,6- dinitrophe nol, water, unfiltered, recoverabl e, microgram s per liter (34657)
10-21-2009	6.1	.06	E .10	E .02	< .10	< 0.22	< 0.34	< 0.36	< .8	--
10-21-2009	5.7	.07	E .14	E .03	< .10	< 0.22	< 0.34	< 0.36	< .8	--
10-21-2009	< 2.0	--	< .18	--	< .10	< 0.22	< 0.34	< 0.36	< .8	< 0.76
11-10-2009	20.5	.09	.39	.04	E .08	< 0.22	< 0.34	< 0.36	< .8	< 0.76
11-10-2009	27.0	.13	.51	E .03	E .08	< 0.22	< 0.34	< 0.36	< .8	< 0.76
11-17-2009	4.7	.05	< .18	< .04	< .10	< 0.22	< 0.34	< 0.36	< .8	< 0.76
12-11-2009	5.5	.05	< .18	E .03	< .10	< 0.22	< 0.34	< 0.36	< .8	< 0.76
01-26-2010	7.7	.09	E .13	.07	< .10	< 0.22	< 0.34	< 0.36	< .8	< 0.76
02-18-2010	5.2	E .04	E .13	E .03	< .10	< 0.22	< 0.34	< 0.36	< .8	< 0.76
02-18-2010	5.4	E .03	E .13	E .03	< .10	< 0.22	< 0.34	< 0.36	< .8	< 0.76
02-22-2010	39.4	.11	.55	.06	E .10	< 0.22	< 0.34	< 0.36	< .8	< 0.76
03-12-2010	81.8	.11	.75	.05	.12	< 0.22	< 0.34	< 0.36	< .8	< 0.76
03-21-2010	74.7	.16	1.0	.06	.17	< 0.22	< 0.34	< 0.36	< .8	< 0.76
03-23-2010	7.9	E .03	< .18	E .03	< .10	M	< 0.34	< 0.36	< .8	< 0.76
04-02-2010	< 2.0	--	< .18	--	< .10	< 0.22	< 0.34	< 0.36	< .8	< 0.76
04-13-2010	4.5	E .04	< .18	E .02	< .10	< 0.22	< 0.34	< 0.36	< .8	< 0.76
04-13-2010	4.0	E .04	< .18	E .03	< .10	< 0.22	< 0.34	< 0.36	< .8	< 0.76

03448800 SWANNANOA RIVER AT INTERSTATE 40 AT BLACK MOUNTAIN, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 8 of 13

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	4-Chloro-3-methylphenol, water, unfiltered, recoverable,	4-Nitrophenol, water, unfiltered, recoverable,	Hexachlorobenzene, water, unfiltered, recoverable,	Pentachlorophenol, water, unfiltered, recoverable,	1,2,4-Trichlorobenzene, water, unfiltered, recoverable,	1,2-Dichlorobenzene, water, unfiltered, recoverable,	1,2-Diphenylhydrazine, water, unfiltered, recoverable,	1,3-Dichlorobenzene, water, unfiltered, recoverable,	2,4-Dinitrophenol, water, unfiltered, recoverable,	2,4-Dinitrotoluene, water, unfiltered, recoverable,
	micrograms per liter (34452)	micrograms per liter (34646)	micrograms per liter (39700)	micrograms per liter (39032)	micrograms per liter (34551)	micrograms per liter (34536)	micrograms per liter (82626)	micrograms per liter (34566)	micrograms per liter (34616)	micrograms per liter (34611)
10-21-2009	< 0.55	< 0.51	< 0.30	--	< 0.26	< 0.20	< 0.30	< 0.22	--	< 0.56
10-21-2009	< 0.55	< 0.51	< 0.30	--	< 0.26	< 0.20	< 0.30	< 0.22	--	< 0.56
10-21-2009	< 0.55	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56
11-10-2009	< 0.55	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56
11-10-2009	< 0.55	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56
11-17-2009	< 0.55	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	--	< 0.56
12-11-2009	< 0.55	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	--	< 0.56
01-26-2010	< 0.55	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56
02-18-2010	< 0.55	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	--	< 0.56
02-18-2010	< 0.55	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	--	< 0.56
02-22-2010	< 0.55	M	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56
03-12-2010	< 0.55	M	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	--	< 0.56
03-21-2010	< 0.55	< 0.51	< 0.30	M	M	< 0.20	< 0.30	< 0.22	< 1	< 0.56
03-23-2010	< 0.55	< 0.51	< 0.30	< 0.6	M	M	< 0.30	M	< 1	< 0.56
04-02-2010	< 0.55	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56
04-13-2010	< 0.55	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56
04-13-2010	< 0.55	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56

03448800 SWANNANOA RIVER AT INTERSTATE 40 AT BLACK MOUNTAIN, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 9 of 13

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	2,6-	2-	2-	2-	3,3'-	4-	4-	9H-	Acenaphth	Acenaphth
	Dinitrotoluene, water, unfiltered, recoverable,	Chloronaphthalene, water, unfiltered, recoverable,	Chlorophenol, water, unfiltered, recoverable,	Nitrophenol, water, unfiltered, recoverable,	Dichlorobenzidine, water, unfiltered, recoverable,	Bromophenyl ether, water, unfiltered, recoverable,	Chlorophenyl ether, water, unfiltered, recoverable,	Fluorene, water, unfiltered, recoverable,	ene, water, unfiltered, recoverable,	ylene, water, unfiltered, recoverable,
	e,	e,	e,	e,	e,	e,	e,	e,	e,	e,
	micrograms per liter (34626)	micrograms per liter (34581)	micrograms per liter (34586)	micrograms per liter (34591)	micrograms per liter (34631)	micrograms per liter (34636)	micrograms per liter (34641)	micrograms per liter (34381)	micrograms per liter (34205)	micrograms per liter (34200)
10-21-2009	< 0.4	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	M	M	< 0.30
10-21-2009	< 0.4	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	M	M	< 0.30
10-21-2009	< 0.4	< 0.16	M	< 0.40	--	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30
11-10-2009	< 0.4	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	M	M	< 0.30
11-10-2009	M	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	M	< 0.28	< 0.30
11-17-2009	< 0.4	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	M	< 0.28	< 0.30
12-11-2009	< 0.4	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30
01-26-2010	< 0.4	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	M	< 0.30
02-18-2010	< 0.4	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30
02-18-2010	< 0.4	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30
02-22-2010	< 0.4	< 0.16	< 0.26	M	< 0.42	< 0.24	< 0.34	M	M	< 0.30
03-12-2010	< 0.4	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	M	M	< 0.30
03-21-2010	< 0.4	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	M	< 0.28	< 0.30
03-23-2010	< 0.4	< 0.16	M	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30
04-02-2010	< 0.4	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30
04-13-2010	< 0.4	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	M	< 0.30
04-13-2010	< 0.4	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	M	< 0.30

03448800 SWANNANOA RIVER AT INTERSTATE 40 AT BLACK MOUNTAIN, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 10 of 13

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Anthracene, water, unfiltered, recoverable, e, micrograms per liter (34220)	Benzo[a]anthracene, water, unfiltered, recoverable, e, micrograms per liter (34526)	Benzo[a]pyrene, water, unfiltered, recoverable, e, micrograms per liter (34247)	Benzo[b]fluoranthene, water, unfiltered, recoverable, e, micrograms per liter (34230)	Benzo[ghi]perylene, water, unfiltered, recoverable, e, micrograms per liter (34521)	Benzo[k]fluoranthene, water, unfiltered, recoverable, e, micrograms per liter (34242)	Benzyln-butyl phthalate, water, unfiltered, recoverable, e, micrograms per liter (34292)	Bis(2-chloroethoxy)methane, water, unfiltered, recoverable, e, micrograms per liter (34278)	Bis(2-chloroethyl) ether, water, unfiltered, recoverable, e, micrograms per liter (34273)	Bis(2-chloroisopropyl) ether, water, unfiltered, recoverable, e, micrograms per liter (34283)
10-21-2009	< 0.39	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14
10-21-2009	< 0.39	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14
10-21-2009	< 0.39	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14
11-10-2009	M	< 0.26	M	M	M	M	< 2	< 0.24	< 0.30	< 0.14
11-10-2009	M	< 0.26	M	M	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14
11-17-2009	< 0.39	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14
12-11-2009	< 0.39	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14
01-26-2010	M	M	M	M	M	M	< 2	< 0.24	< 0.30	< 0.14
02-18-2010	< 0.39	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14
02-18-2010	< 0.39	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14
02-22-2010	M	M	M	M	M	M	< 2	< 0.24	< 0.30	< 0.14
03-12-2010	M	M	M	M	M	M	< 2	< 0.24	< 0.5460	< 0.14
03-21-2010	M	M	M	M	M	M	< 2	< 0.24	< 0.30	< 0.14
03-23-2010	< 0.39	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14
04-02-2010	< 0.39	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14
04-13-2010	< 0.39	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14
04-13-2010	< 0.39	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14

03448800 SWANNANOA RIVER AT INTERSTATE 40 AT BLACK MOUNTAIN, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 11 of 13

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Bis(2-ethylhexyl) phthalate, water, unfiltered, recoverable, micrograms per liter (39100)	Chrysene, water, unfiltered, recoverable, micrograms per liter (34320)	Dibenzo[a,h]anthracene, water, unfiltered, recoverable, micrograms per liter (34556)	Diethyl phthalate, water, unfiltered, recoverable, micrograms per liter (34336)	Dimethyl phthalate, water, unfiltered, recoverable, micrograms per liter (34341)	Di-n-butyl phthalate, water, unfiltered, recoverable, micrograms per liter (39110)	Di-n-octyl phthalate, water, unfiltered, recoverable, micrograms per liter (34596)	Fluoranthene, water, unfiltered, recoverable, micrograms per liter (34376)	Hexachlorobutadiene, water, unfiltered, recoverable, μg/L (39702)	Hexachlorocyclopentadiene, water, unfiltered, recoverable, micrograms per liter (34386)
10-21-2009	< 2	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50
10-21-2009	< 2	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50
10-21-2009	< 2	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50
11-10-2009	M	M	< 0.42	< 0.61	< 0.36	< 2	< 0.6	M	< 0.24	< 0.50
11-10-2009	< 2	M	< 0.42	< 0.61	M	< 2	< 0.6	M	< 0.24	< 0.50
11-17-2009	< 2	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50
12-11-2009	< 2	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50
01-26-2010	< 2	M	< 0.42	< 0.61	< 0.36	< 2	< 0.6	M	< 0.24	< 0.50
02-18-2010	< 2	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50
02-18-2010	< 2	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50
02-22-2010	< 2	M	< 0.42	< 0.61	M	< 2	< 0.6	M	< 0.24	< 0.50
03-12-2010	M	M	< 0.42	M	M	< 2	< 0.6	M	< 0.24	< 0.50
03-21-2010	< 2	M	< 0.42	< 0.61	< 0.36	< 2	< 0.6	M	< 0.24	< 0.50
03-23-2010	< 2	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50
04-02-2010	M	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50
04-13-2010	< 2	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50
04-13-2010	< 2	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50

03448800 SWANNANOA RIVER AT INTERSTATE 40 AT BLACK MOUNTAIN, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 12 of 13

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Hexa chloro ethane, water, unfiltered, recover able, μg/L (34396)	Indeno[1,2, 3- cd]pyrene, water, unfiltered, recoverabl e, microgram s per liter (34403)	Isophorone , water, unfiltered, recoverabl e, microgram s per liter (34408)	Naphtha lene, water, unfiltered, recover able, μg/L (34696)	Nitrobenze ne, water, unfiltered, recoverabl e, microgram s per liter (34447)	N- Nitrosodim ethylamine , water, unfiltered, recoverabl e, microgram s per liter (34438)	N- Nitrosodi- n- propylamin e, water, unfiltered, recoverabl e, microgram s per liter (34428)	N- Nitrosodip henylamin e, water, unfiltered, recoverabl e, microgram s per liter (34433)	Oil and grease, water, unfiltered, hexane extraction, recoverabl e, milligrams per liter (00552)	Organic carbon, water, filtered, mg/L (00681)
10-21-2009	< 0.24	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	< 5.0	.8
10-21-2009	< 0.24	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.7	.8
10-21-2009	< 0.24	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 4.3	--
11-10-2009	< 0.24	M	M	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.1	3.0
11-10-2009	< 0.24	< 0.38	M	< 0.22	< 0.26	< 0.24	< 1	< 0.28	E 2.5	2.9
11-17-2009	< 0.24	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.1	.8
12-11-2009	< 0.24	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	--	E .7
01-26-2010	< 0.24	M	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.90	.7
02-18-2010	< 0.24	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	--	1.0
02-18-2010	< 0.24	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	--	E .6
02-22-2010	< 0.24	M	< 0.26	M	< 0.26	< 0.24	< 0.4	M	E 3.1	2.0
03-12-2010	< 0.24	M	< 0.26	M	< 0.26	< 0.24	< 0.4	< 0.28	--	2.3
03-21-2010	< 0.24	M	M	M	< 0.26	< 0.24	< 0.4	< 0.28	E 2.80	2.6
03-23-2010	< 0.24	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.80	E .6
04-02-2010	< 0.24	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.60	--
04-13-2010	< 0.24	< 0.38	< 0.26	M	< 0.26	< 0.24	< 0.4	< 0.28	E 1.50	E .6
04-13-2010	< 0.24	< 0.38	< 0.26	M	< 0.26	< 0.24	< 0.4	< 0.28	E 1.80	2.6

03448800 SWANNANOA RIVER AT INTERSTATE 40 AT BLACK MOUNTAIN, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 13 of 13

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Organic carbon, water, unfiltered, mg/L (00680)	Phenanthrene, water, unfiltered, recoverable, micrograms per liter (34461)	Phenol, water, unfiltered, recoverable, micrograms per liter (34694)	Pyrene, water, unfiltered, recoverable, micrograms per liter (34469)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concentration, mg/L (80154)
		< 0.32	< .3	< 0.35	--	
10-21-2009	1.0	< 0.32	M	< 0.35	--	18
10-21-2009	.6	< 0.32	E .1	< 0.35	61	6
10-21-2009	E .3	< 0.32	E .1	< 0.35	--	--
11-10-2009	3.2	M	< .3	M	80	59
11-10-2009	3.0	M	< .3	M	56	127
11-17-2009	.9	< 0.32	< .3	< 0.35	--	3
12-11-2009	1.0	< 0.32	< .3	< 0.35	--	3
01-26-2010	1.3	M	< .3	M	--	12
02-18-2010	.7	< 0.32	< .3	< 0.35	--	3
02-18-2010	.7	< 0.32	< .3	< 0.35	--	--
02-22-2010	4.5	M	E .1	M	76	97
03-12-2010	5.1	M	< .3	M	60	479
03-21-2010	4.5	M	< .3	M	83	249
03-23-2010	.9	< 0.32	E .1	< 0.35	--	6
04-02-2010	< .6	< 0.32	E .1	< 0.35	--	--
04-13-2010	E .6	< 0.32	< .3	< 0.35	56	8
04-13-2010	.6	< 0.32	< .3	< 0.35	--	5