

STATE WATER CONTROL BOARD
 9 VAC 25-720 WATER QUALITY MANAGEMENT
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9 VAC 25-720-60. James River Basin.

A. Total maximum daily load (TMDLs).

TMDL #	Stream Name	TMDL Title	City/ County	WBID	Pollutant	WLA	Units
1.	Pheasanty Run	Benthic TMDL Reports for Six Impaired Stream Segments in the Potomac-Shenandoah and James River Basins	Bath	I14R	Organic Solids	1,231.00	LB/YR
2.	Wallace Mill Stream	Benthic TMDL Reports for Six Impaired Stream Segments in the Potomac-Shenandoah and James River Basins	Augusta	I32R	Organic Solids	2,814.00	LB/YR
3.	Montebello Sp. Branch	Benthic TMDL Reports for Six Impaired Stream Segments in the Potomac-Shenandoah and James River Basins	Nelson	H09R	Organic Solids	37.00	LB/YR
4.	Unnamed Tributary to Deep Creek	General Standard Total Maximum Daily Load For Unnamed Tributary to Deep Creek	Nottoway	J11R	Raw Sewage	0	GAL/YR
<u>5.</u>	<u>Unnamed Tributary to Chickahominy River</u>	<u>Total Maximum Daily Load (TMDL) Development for the Unnamed Tributary to the Chickahominy River</u>	<u>Hanover</u>	<u>G05R</u>	<u>Total Phosphorus</u>	<u>409.35</u>	<u>LB/YR</u>

B. Stream segment classifications, effluent limitations including water quality based effluent limitations, and waste load allocations.

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TABLE B1 - UPPER JAMES RIVER BASIN RECOMMENDED SEGMENT CLASSIFICATION

Stream Name	Segment No.	Mile to Mile	Classification	Comments
Maury River	2-4	80.3-0.0	E.L.	Main & tributaries
James River	2-5	271.5-266.0	W.Q.	Main only
James River	2-6	266.0-115.0	E.L.	Main & tributaries except Tye & Rivanna River
Tye River	2-7	41.7-0.0	E.L.	Main & tributaries except Rutledge Creek
Rutledge Creek	2-8	3.0-0.0	W.Q.	Main only
Piney River	2-9	20.6-0.0	E.L.	Main & tributaries
Rivanna River	2-10	20.0-0.0	E.L.	Main & tributaries
Rivanna River	2-11	38.1-20.0	W.Q.	Main only
Rivanna River	2-12	76.7-38.1	E.L.	Main & tributaries
S.F. Rivanna River	2-13	12.2-0.0	E.L.	Main & tributaries
Mechum River	2-14	23.1-0.0	E.L.	Main & tributaries
N.F. Rivanna River	2-15	17.0-0.0	E.L.	Main & tributaries except Standardsville Run
Standardsville Run	2-16	1.2-0.0	W.Q.	Main only
Appomattox River	2-17	156.2-27.7	E.L.	Main & tributaries except Buffalo Creek, Courthouse Branch, and Deep Creek
Buffalo Creek	2-18	20.9-0.0	E.L.	Main & tributaries except Unnamed Tributary @ R.M. 9.3
Unnamed Tributary of Buffalo Creek @ R.M. 9.3	2-19	1.3-0.0	W.Q.	Main only
Courthouse Branch	2-20	0.6-0.0	W.Q.	Main only
Deep Creek	2-21	29.5-0.0	E.L.	Main & tributaries except Unnamed Tributary @ R.M. 25.0
Unnamed Tributary of Deep Creek @ R.M. 25.0	2-22	2.2-0.0	W.Q.	Main only

TABLE B2 - UPPER JAMES RIVER BASIN LOAD ALLOCATIONS BASED ON EXISTING DISCHARGE POINT7

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Stream Name	Segment Number	Classification	Mile to Mile	Significant Discharges	Total Assimilative Capacity of Stream BOD5 lbs/day	Wasteload Allocation BOD5 lbs/day2	Reserve BOD5 lbs/day5
Cedar Creek	2-3	E.L.	1.9-0.0	Natural Bridge, Inc. STP	35.0	28.0	7.0 (20%)
Elk Creek	2-3	E.L.	2.8-0.0	Natural Bridge Camp for Boys STP	7.0	3.3	3.7 (53%)
Little Calfpasture River	2-4	E.L.	10.9-4.0	Craigsville	12.0	9.6	2.4 (20%)
Cabin River	2-4	E.L.	1.7-0.0	Millboro	Self -sustaining	None	None
Maury River	2-4	E.L.	19.6-12.2	Lexington STP	380.0	380.0	None
Maury River	2-4	E.L.	12.2-1.2	Georgia Bonded Fibers	760.0	102.03	238.0 (31%)
				Buena Vista STP		420.0	
Maury River	2-4	E.L.	1.2-0.0	Lees Carpets	790.0	425.03	290.0 (37%)
				Glasgow STP		75.0	
James River	2-5	W.Q.	271.5-266.0	Owens-Illinois	4,640.0	4,640.03	None
James River	2-6	E.L.	257.5-231.0	Lynchburg STP	10,100.0	8,000.0	2,060.0 (20%)
				Babcock & Wilcox- NNFD		40.03	
James River	2-6	E.L.	231.0-202.0	Virginia Fibre	3,500.0	3,500.0	None
Rutledge Creek	2-8	W.Q.	3.0-0.0	Amherst STP	46.0	37.0	9.0 (20%)
Town Creek	2-7	E.L.	2.1-0.0	Lovington STP	26.0	21.0	5.0 (20%)
Ivy Creek	2-6	E.L.	0.1-0.0	Schuyler	13.8	11.0	2.8 (20%)
James River	2-6	E.L.	186.0-179.0	Uniroyal, Inc.	1,400.0	19.36	1,336.0 (95%)
				Scottsville STP		45.0	
North Creek	2-6	E.L.	3.1-0.0	Fork Union STP	31.0	25.0	6.0 (20%)
Howells Branch and Licking Hole Creek	2-14	E.L.	0.7-0.0	Morton Frozen Foods	20.0	20.03	None
Standardsville Run	2-16	W.Q.	1.2-0.0	Standardsville STP	17.9	14.3	3.6 (20%)
Rivanna River	2-11	W.Q.	23.5-20.0	Lake Monticello STP	480.0	380.0	100.0 (20%)
Rivanna River	2-10	E.L.	15.0-0.0	Palmyra	250.0	4.0	158.0 (63%)

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				Schwarzenbach Huber		88.03	
Unnamed Tributary of Whispering Creek	2-6	E.L.	1.2-00	Dillwyn STP	38.0	30.0	8.0 (21%)
South Fork Appomattox River	2-17	E.L.	5.5-0.0	Appomattox Lagoon	18.8	15.0	3.8 (20%)
Unnamed Tributary of Buffalo Creek	2-19	W.Q.	1.3-0.0	Hampden-Sydney Coll. STP	10.0	8.0	2.0 (20%)
Appomattox River	2-17	E.L.	106.1-88.0	Farmville STP	280.0	220.0	60.0 (21%)
Unnamed Tributary of Little Guinea Creek	2-17	E.L.	2.5-1.3	Cumberland H.S. Lagoon	0.6	0.5	0.1 (20%)
Unnamed Tributary of Tear Wallet Creek	2-17	E.L.	0.68-0.0	Cumberland Courthouse	8.8	7.0	1.8 (20%)
Courthouse Branch	2-22	W.Q.	2.2-0.0	Amelia STP	21.0	17.0	4.0 (20%)
Unnamed Tributary of Deep Creek	2-22	W.Q.	2.2-0.0	Crewe STP	50.311,12	50.111,12	0.2 (0.4%) ^{11,12,13}

1 Recommended classification.

2 Based on 2020 loads or stream assimilative capacity less 20%.

3 Load allocation based on published NPDES permits.

4 This assimilative capacity is based upon an ammonia loading no greater than 125.1 lbs/day.

5 Percentages refer to reserve as percent of total assimilative capacity. Minimum reserve for future growth and modeling accuracy is 20% unless otherwise noted.

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6 No NPDES Permits published (BPT not established) allocation base on maximum value monitored.

7 This table is for the existing discharge point. The recommended plan may involve relocation or elimination of stream discharge.

8 Assimilative capacity will be determined upon completion of the ongoing study by Hydrosience, Inc.

9 Discharges into Karnes Creek, a tributary to the Jackson River.

10 Discharges into Wilson Creek, near its confluence with Jackson River.

11 Five-day Carbonaceous Biological Oxygen Demand (cBOD5).

12 Revision supersedes all subsequent Crewe STP stream capacity, allocation, and reserve references.

13 0.4 percent reserve: determined by SWCB Piedmont Regional Office.

Source: Wiley & Wilson, Inc.

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TABLE B3 - UPPER JAMES RIVER BASIN ADDITIONAL LOAD ALLOCATIONS BASED ON RECOMMENDED

DISCHARGE POINT

Stream Name	Segment Number	Classification ¹	Mile to Mile	Significant Discharges	Total Assimilative Capacity of Stream BOD5 lbs/day	Wasteload ² Allocation BOD5 lbs/day	Reserve ⁴ BOD5 lbs/day ⁵
Mill Creek	2-4	E.L.	5.5-0.0	Millboro	30.0	7.3	22.7 (76%)
Calfpasture River	2-4	E.L.	4.9-0.0	Goshen	65.0	12.0	53.0 (82%)
Mauzy River	2-4	E.L.	1.2-0.0	Lees Carpet	790.0	425.03	235.0 (30%)
				Glasgow Regional S.T.P.		130.0	
Buffalo River	2-7	E.L.	9.6-0.0	Amherst S.T.P.	150.0	120.0	30.0 (20%)
Rockfish River	2-6	E.L.	9.5-0.0	Schuyler S.T.P.	110.0	25.0	85.0 (77%)
Standardsville Run		E.L.		Standardsville	Land Application Recommended		
South Fork Appomattox River		E.L.		Appomattox Lagoon	Connect to Recommended Facility in Roanoke River Basin		
Buffalo Creek	2-17	E.L.	9.3-7.7	Hampden-Sydney College	46.0	23.0	23.0 (50%)
Unnamed trib. of Tear Wallet Creek		E.L.		Cumberland Courthouse	Land Application Recommended		
Courthouse Branch		E.L.		Amelia	Land Application Recommended		
Deep Creek	2-17	E.L.	25.0-12.8	Crewe S.T.P.	69.0	55.0	14.0 (20%)

¹Recommended classification.

²Based on 2020 loads or stream assimilative capacity less 20%.

³Load allocation based on published NPDES permit.

⁴Percentages refer to reserve as percent of total assimilative capacity. Minimum reserve for future growth and modeling accuracy is 20% unless otherwise noted.

⁵Assimilative capacity will be determined upon completion of the ongoing study by Hydrosience, Inc.

Source: Wiley & Wilson, Inc.

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TABLE B4 - SEGMENT CLASSIFICATION UPPER JAMES-JACKSON RIVER SUBAREA

Stream Name	Segment Number	Mile to Mile	Stream Classification	Comments
Back Creek	2-1	16.06-8.46	W.Q.	Main Only
Jackson River	2-1	95.70-24.90	E.L.	Main and Tributaries
Jackson River	2-2	24.90-0.00	W.Q.	Main Only
Jackson River	2-2	24.90-0.00	E.L.	Tributaries Only
James River	2-3	349.50-308.50	E.L.	Main and Tributaries
James River	2-3	308.50-279.41	E.L.	Main and Tributaries

TABLE B5 - UPPER JAMES-JACKSON RIVER SUBAREA WASTELOAD ALLOCATIONS BASED ON EXISTING
 DISCHARGE POINT1

MAP LOCATION	STREAM NAME	SEGMENT NUMBER	SEGMENT CLASSIFICATION STANDARDS	MILE to2 MILE	DISCHARGER	VPDES PERMIT NUMBER	VPDES PERMIT LIMITS BOD5 kg/day	303(e)3 WASTELOAD ALLOCATION BOD5 kg/day
1	<i>Jackson River</i>	2-1	E.L.	93.05-	Virginia Trout	VA0071722	N/A	Secondary
B	<i>Warm Springs Run</i>	2-1	E.L.	3.62-0.00	Warm Springs STP	VA0028233	9.10	Secondary
3	Back Creek	2-1	W.Q.	16.06-8.46	VEPCO	VA0053317	11.50	11.50
C	X-trib to Jackson River	2-1	E.L.	0.40-0.0	Bacova	VA0024091	9.10	Secondary
D	Hot Springs Run	2-1	E.L.	5.30-0.00	Hot Springs Reg. STP	VA0066303	51.10	Secondary
E	X-trib to Cascades Creek	2-1	E.L.	3.00-0.00	Ashwood-Healing Springs STP	VA0023726	11.30	Secondary

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F	Jackson River	2-1	E.L.	50.36-	U.S. Forest Service Bolar Mountain	VA0032123	1.98	Secondary
G	Jackson River	2-1	E.L.	43.55	U.S. Army COE Morris Hill Complex	VA0032115	1.70	Secondary
H	Jackson River	2-1	E.L.	29.84-	Alleghany County Clearwater Park	VA0027955	5.70	Secondary
4	Jackson River	2-1	E.L.	25.99	Covington City Water Treatment Plant	VA0058491	N/A	Secondary
5	Jackson River	2-2	W.Q.	24.64- 19.03	Westvaco	VA0003646	4,195.00	4,195.004
6					Covington City 5 Asphalt Plant	VA0054411	N/A	N/A
7					Hercules, Inc 6	VA0003450	94.00	94.00
J	Jackson River	2-2	W.Q.	19.03- 10.5	Covington STP	VA0025542	341.00	341.00
K	Jackson River			10.5-0.0	Low Moor STP7	VA0027979	22.70	22.70
M					D.S. Lancaster CC8	VA0028509	3.60	3.60
L					Selma STP9	VA0028002	59.00	59.00
10					The Chessie System10	VA0003344	N/A	N/A
N					Clifton Forge STP11	VA0002984	227.00	227.00
11					Lydall12	VA0002984	6.00	6.00
P					Iron Gate STP13	VA0020541	60.00	60.00
8	Paint Bank Branch	2-2	E.L.	1.52	VDGIF Paint Bank Hatchery	VA0098432	N/A	Secondary
I	Jerrys Run	2-2	E.L.	6.72-	VDOT 1-64 Rest Area	VA0023159	0.54	Secondary

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AA	East Branch (Sulfer Spring)	2-2	E.L.	2.16	Norman F. Nicholas	VA0078403	0.05	Secondary
BB	East Branch (Sulfer Spring)	2-2	E.L.	1.91-	Daryl C. Clark	VA0067890	0.068	Secondary
9	Smith Creek	2-2	E.L.	3.44-	Clifton Forge Water Treatment Plant	VA0006076	N/A	Secondary
O	Wilson Creek	2-2	E.L.	0.20-0.0	Clifftondale14 Park STP	VA0027987	24.00	Secondary
2	Pheasanty Run	2-3	E.L.	0.01-	Coursey Springs	VA0006491	434.90	Secondary
Q	Grannys Creek	2-3	E.L.	1.20-	Craig Spring Conference Grounds	VA0027952	3.40	Secondary
CC	X-trib to Big Creek	2-3	E.L.	1.10-	Homer Kelly Residence	VA0074926	0.05	Secondary
12	Mill Creek	2-3	E.L.	0.16-	Columbia Gas Transmission Corp.	VA0004839	N/A	Secondary
R	John Creek	2-3	E.L.	0.20-	New Castle STP(old)	VA0024139	21.00	Secondary
S	Craig Creek	2-3	E.L.	48.45- 36.0	New Castle STP (new)	VA0064599	19.90	Secondary
T	Craig Creek	2-3	E.L.	46.98-	Craig County Schools McCleary E.S.	VA0027758	0.57	Secondary
DD	Eagle Rock Creek	2-3	E.L.	0.08-	Eagle Rock STP15 (Proposed)	VA0076350	2.30	Secondary
U	X-trib to Catawba Creek	2-3	E.L.	0.16	VDMH & R Catawba Hospital	VA0029475	13.60	Secondary

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14	Catawba Creek	2-3	E.L.	23.84	Tarmac- Lonestar	VA0078393	0.80	Secondary
FF	Borden Creek	2-3	E.L.	2.00-	Shenandoah Baptist Church Camp	VA0075451	0.88	Secondary
EE	X-trib to Borden Creek	2-3	E.L.	0.36	David B. Pope	VA0076031	0.07	Secondary
V	X-trib to Catawba Creek	2-3	E.L.	3.21-	U.S. FHA Flatwood Acres	VA0068233	0.03	Secondary
W	Catawba Creek	2-3	E.L.	11.54-	Fincastle STP	VA0068233	8.50	Secondary
X	Looney Mill Creek	2-3	E.L.	1.83-	VDOT I-81 Rest Area	VA0023141	0.91	Secondary
Y	X-trib to Stoney	2-3	E.L.	0.57	VDOC Field Unit No. 25 Battle Creek	VA0023523	1.10	Secondary
Z	James River	2-3	E.L.	308.5- 286.0	Buchanan STP	VA0022225	27.00	Secondary

TABLE B5 - NOTES:

N/A Currently No BOD5 limits or wasteload have been imposed by the VPDES permit. Should BOD5 limits (wasteload) be imposed a WQMP amendment would be required for water quality limited segments only.

1 Secondary treatment levels are required in effluent limiting (E.L.) segments. In water quality limiting (W.Q.) segments quantities listed represent wasteload allocations.

2 Ending river miles have not been determined for some Effluent Limited segments.

3 These allocations represent current and original (1977 WQMP) modeling. Future revisions may be necessary based on Virginia State Water Control Board modeling.

4 The total assimilative capacity at critical stream flow for this portion of Segment 2-2 has been modeled and verified by Hydrosience, Inc. (March 1977) to be 4,914 kg/day BOD₅.

5 The discharge is to an unnamed tributary to the Jackson River at Jackson River mile 22.93.

6 The discharge is at Jackson River mile 19.22.

7 The discharge is to the mouth of Karnes Creek, a tributary to the Jackson River at Jackson River mile 5.44.

8 The discharge is at Jackson River mile 6.67.

9 The discharge is at Jackson River mile 5.14.

10 The discharge is at Jackson River mile 4.72.

11 The discharge is at Jackson River mile 3.46.

12 The discharge is at Jackson River mile 1.17

13 The discharge is at Jackson River mile 0.76

14 The discharge is to the mouth of Wilson Creek, a tributary to the Jackson River at Jackson River mile 2.44.

15 The discharge is to the mouth of Eagle Rock Creek, a tributary to the Jackson River at Jackson River mile 330.35.

TABLE B6 - RICHMOND CRATER INTERIM WATER QUALITY MANAGEMENT PLAN STREAM

CLASSIFICATIONS - JAMES RIVER BASIN

SEGMENT	SEGMENT NUMBER	MILE TO MILE	CLASSIFICATION
USGS HUC02080206 James River	2-19	115.0-60.5	W.Q.
USGS HUC02080207 Appomattox	2-23	30.1-0.0	W.Q.

TABLE B6- * Note: A new stream segment classification for the Upper James Basin was adopted in 1981. The SWCB will renumber or realign these segments in the future to reflect these changes. This Plan covers only a portion of these segments.

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TABLE B7 - RICHMOND CRATER INTERIM WATER QUALITY MANAGEMENT PLAN- CURRENT PERMITTED

WASTE LOADS (March 1988)

	SUMMER (June-October)						WINTER (November-May)					
	FLOW	BOD5		NH3-N1		DO2	FLOW	BOD5		NH3-N1		DO2
	(mgd)	(lbs/d)	(mg/l)	(lbs/d)	(mg/l)	(mg/l)	(mgd)	(lbs/d)	(mg/l)	(lbs/d)	(mg/l)	(mg/l)
City of Richmond STP3	45.00	3002	8.0	-	-	-	45.00	5367		-	-	-
E.I. DuPont-Spruance	8.68	936	-	-	-	-	8.68	936	-	-	-	-
Falling Creek STP	9.00	1202	16.0	-	-	5.9	9.00	2253	30.0	-	-	5.9
Proctor's Creek STP	6.40	1601	30.0	-	-	5.9	11.80	2952	30.0	-	-	5.9
Reynolds Metals Company	0.39	138	-	7	-	-	0.39	138	-	7	-	-
Henrico STP	30.00	3005	12.0	-	-	5.9	30.00	7260	29.0	-	-	5.9
American Tobacco Company	1.94	715	-	-	-	-	1.94	716	-	-	-	-
ICI Americas, Inc.	0.20	152	-	-	-	-	0.20	152	-	-	-	-
Phillip Morris- Park 500	1.50	559	-	-	-	-	1.50	557	-	-	-	-
Allied (Chesterfield)	51.00	1207	-	-	-	-	51.00	1207		-	-	-
Allied (Hopewell)	150.00	2500	-	-	-	-	150.00	2500	-	-	-	-
Hopewell Regional WTF	34.08	12507	44.0	-	-	4.8	34.08	12507	44.0	-	-	4.8
Petersburg STP	15.00	2804	22.4	-	-	5.0	15.00	2804	22.4	-	-	5.0
TOTAL	353.19	30328					358.59	39349				

1 NH3-N values represent ammonia as nitrogen.

2 Dissolved oxygen limits represent average minimum allowable levels.

3 Richmond STP's BOD5 is permitted as CBOD5

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TABLE B7 - WASTE LOAD ALLOCATIONS FOR THE YEAR 1990

	SUMMER (June-October)						WINTER (November-May)				
	FLOW	CBOD5		NH3-N1,3		DO2	CBOD5		NH3-N1		DO2
	(mgd)	(lbs/d)	(mg/l)	(lbs/d)	(mg/l)	(mg/l)	(lbs/d)	(mg/l)	(lbs/d)	(mg/l)	(mg/l)
City of Richmond STP	45.00	3002	8.0	2403	6.4	5.6	5367	14.3	5707	15.2	5.6
E.I. DuPont-Spruance	11.05	948		590		4.4	948		756		2.9
Falling Creek STP	10.10	1348	16.0	539	6.4	5.9	2023	24.0	1281	15.2	5.9
Proctor's Creek STP	12.00	1602	16.0	961	9.6	5.9	2403	24.0	1402	14.0	5.9
Reynolds Metals Co.	0.49	172		8		6.5	172		8		6.5
Henrico STP	30.00	3002	12.0	2403	9.6	5.6	4756	19.0	3504	44.0	5.6
American Tobacco Co.	2.70	715		113		5.8	715		113		5.8
ICI Americas, Inc.	0.20	167		8		5.8	167		8		3.1
Phillip Morris- Park 500	2.20	819		92		4.6	819		92		4.6
Allied (Chesterfield)	53.00	1255		442		5.7	1255		442		5.7
Allied (Hopewell)	165.00	2750		10326		6.1	2750		10326		6.1
Hopewell Regional WTF	34.07	12502	44.0	12091	36.2	4.8	12502	44.0	10291	36.2	4.8
Petersburg STP	15.00	2802	22.4	801	6.4	5.0	2802	22.4	2028	16.2	5.0
TOTAL	380.81	31084		28978			36679	35958			

1 NH3-N values represent ammonia as nitrogen.

2 Dissolved oxygen limits represent average minimum allowable levels.

3 Allied (Hopewell) allocation may be redistributed to the Hopewell Regional WTF by VPDES permit.

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TABLE B7- WASTE LOAD ALLOCATION FOR THE YEAR 2000

	SUMMER (June-October)						WINTER (November-May)				
	FLOW	CBOD5		NH3-N1,3		DO2	CBOD5		NH3-N1		DO2
	(mgd)	(lbs/d)	(mg/l)	(lbs/d)	(mg/l)	(mg/l)	(lbs/d)	(mg/l)	(lbs/d)	(mg/l)	(mg/l)
City of Richmond STP	45.08	3002	8.0	2403	6.4	5.6	5367	14.3		15.2	5.6
E.I. DuPont-Spruance	196.99	948		590		4.4	948		756		2.9
Falling Creek STP	10.10	1348	16.0	539	6.4	5.9	2023	24.0	1281	15.2	5.9
Proctor's Creek STP	16.80	1602	11.4	961	6.9	5.9	2403	17.1	1402	10.0	5.9
Reynolds Metals Co.	0.78	172		13		6.5	172		13		6.5
Henrico STP	32.80	3002	11.0	2403	8.8	5.6	4756	17.4	3504	12.8	5.6
American Tobacco Co.	3.00	715		113		5.8	715		113		5.8
ICI Americas, Inc.	0.20	167		8		5.8	167		8		3.1
Phillip Morris- Park 500	2.90	819		92		4.6	819		92		4.6
Allied (Chesterfield)	56.00	1255		442		5.7	1255		442		5.7
Allied (Hopewell)	170.00	2750		10326		6.1	2750		10326		6.1
Hopewell Regional WTF	36.78	12502	40.7	12091	33.5	4.8	12502	40.7	10291	33.5	4.8
Petersburg STP	15.00	2802	22.4	801	6.4	5.0	2802	22.4	2028	16.2	5.0
TOTAL	406.43	31084		28982			36679		35963		

1 NH3-N values represent ammonia as nitrogen.

2 Dissolved oxygen limits represent average minimum allowable levels.

3 Allied (Hopewell) allocation may be redistributed to the Hopewell Regional WTF by VPDES permit.

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TABLE B7- WASTE LOAD ALLOCATIONS FOR THE YEAR 2010

	SUMMER (June-October)						WINTER (November-May)				
	FLOW	CBOD5		NH3-N1,3		DO2	CBOD5		NH3-N1		DO2
	(mgd)	(lbs/d)	(mg/l)	(lbs/d)	(mg/l)	(mg/l)	(lbs/d)	(mg/l)	(lbs/d)	(mg/l)	(mg/l)
City of Richmond STP	45.86	3002	7.8	2403	6.3	5.6	5367	14.0		14.9	5.6
E.I. DuPont-Spruance	16.99	948		590		4.4	948		756		2.9
Falling Creek STP	10.10	1348	16.0	539	6.4	5.9	2023	24.0	1281	15.2	5.9
Proctor's Creek STP	24.00	1602	8.0	961	4.8	5.9	2403	12.0	1402	7.0	5.9
Reynolds Metals Co.	0.78	172		13		6.5	172		13		6.5
Henrico STP	38.07	3002	9.5	2403	7.6	5.6	4756	15.0	3504	11.0	5.6
American Tobacco Co.	3.00	715		113		5.8	715		113		5.8
ICI Americas, Inc.	0.20	167		8		5.8	167		8		3.1
Phillip Morris- Park 500	2.90	819		92		4.6	819		92		4.6
Allied (Chesterfield)	56.00	1255		442		5.7	1255		442		5.7
Allied (Hopewell)	180.00	2750		10326		6.1	2750		10326		6.1
Hopewell Regional WTF	39.61	12502	37.8	10291	31.1	4.8	12502	37.8	10291	31.1	4.8
Petersburg STP	15.00	2802	22.4	801	6.4	5.0	2802	22.4	2028	16.2	5.0
TOTAL	432.1	31084		28982			36679		35963		

1 NH3-N values represent ammonia as nitrogen.

2 Dissolved oxygen limits represent average minimum allowable levels.

3 Allied (Hopewell) allocation may be redistributed to the Hopewell Regional WTF by VPDES permit.

9 VAC 25-720-80. Roanoke River Basin.

A. Total maximum Daily Load (TMDLs).

TMDL #	Stream Name	TMDL Title	City/County	WBID	Pollutant	WLA	Units
1.	Ash Camp Creek	Total Maximum Daily Load Development for Ash Camp Creek	Charlotte	L39R	Sediment	20.7	T/YR

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2.	North Fork Blackwater River	Total Maximum Daily Load (TMDL) Development for the Upper Blackwater River Watershed	Franklin	L08R	Sediment	0	T/YR
3.	North Fork Blackwater River	Total Maximum Daily Load (TMDL) Development for the Upper Blackwater River Watershed	Franklin	L08R	Phosphorus	0	T/YR
4.	Upper Blackwater River	Total Maximum Daily Load (TMDL) Development for the Upper Blackwater River Watershed	Franklin	L08R	Sediment	0.526	T/YR
5.	Flat Creek	Benthic TMDL for Flat Creek Watershed, Virginia	Mecklenburg	L79R	Sediment	76.2	T/YR
6.	<u>Twittys Creek</u>	<u>Benthic TMDL for</u> <u>Twittys Creek</u> <u>Watershed, Virginia</u>	<u>Charlotte</u>	<u>L39R</u>	<u>Sediment</u>	<u>20.4</u>	<u>T/YR</u>

B. Stream segment classifications, effluent limitations including water quality based effluent limitations, and waste load allocations.

TABLE B1 - STREAM SEGMENT CLASSIFICATION

Classification	Segment description
WQMA IV	

	E	All tributaries to the Roanoke River not previously classified in the WQMA.
WQMA V		
	E	Roanoke River and all tributaries in this WQMA.
WQMA VI		
	WQ	Ash Camp Creek.
	EL	Twittys Creek.
	E	Roanoke Creek to include all tributaries not previously classified in the WQMA.
WQMA VII		
	WQ	Banister River from /confluence of Polecat Creek to confluence of Dan and Banister Rivers (River only).
	EL	Dan River from confluence Miry Creek to backwaters of Kerr Reservoir (River only).
	WQ	Kerr Reservoir.
	WQ	Little Bluestone Creek.
	WQ	Butcher Creek
	WQ	Flat Creek.
	E	All tributaries to Kerr Reservoir, Dan River and Banister River not previously classified in this WQMA.
	E	Roanoke River from confluence Clover Creek to headwaters of Kerr Reservoir.
	E	All tributaries to the Roanoke River in this WQMA not previously classified.

WQMA VIII		
	E	Hyco River from the NC-VA, State Line to its confluence with the Dan River to include all tributaries.
WQMA IX		
	E	Banister River through this WQMA
	EL	Georges Creek.
	EL	Cherrystone Creek.
	E	All tributaries to the Banister River not previously classified in this WQMA.
WQMA X		
	E	Dan River from NC-VA State Line to one mile above the confluence of Sandy River (River only).
	E	Sandy River to include all tributaries.
	WQ	Dan River from one mile above confluence of Sandy River to NC-VA line.
	E	Dan River from NC-VA line to confluence Miry Creek
	E	All tributaries to the Dan River in Virginia not previously classified in this WQMA.
WQMA XII		
	E	Smith River from its headwaters to Philpot Dam.
	WQ	Smith River from Philpott Dam to the NC-VA State Line.

	EL	Marrowbone Creek.
	EL	Leatherwood Creek.
	E	All tributaries to the Smith River not previously classified in this WQMA.
WQMA XIII		
	E	North Mayo River from its headwaters to the NC-VA State Line to include all tributaries.
WQMA XIV		
	E	Headwaters South Mayo River to confluence North Fork South Mayo River.
	EL	South Mayo River from confluence with North Fork to NC-VA Line.
	E	All tributaries of the South Mayo River not previously classified in this WQMA.
WQMA XV		
	E	All streams in this WQMA.

Source: Hayes, Seay, Mattern & Mattern

TABLE B2 - SEWERAGE SERVICE AREAS - WASTELOAD ALLOCATIONS FOR ROANOKE RIVER BASIN
 WATER QUALITY MANAGEMENT PLAN.

Water Quality Management Area (WQMA)	Study Area Name	Discharger	Stream Name	Segment Classification	303(e)Wasteload Allocation BOD ₅ lbs/day
WQMA IV	Appomattox	Appomattox STP	Falling R.	EL	100.00

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WQMA IV	Brookneal	Brookneal STP and Dan River, Inc. -Brookneal	Roanoke R.	EL	1381.20
WQMA IV	Rustburg	Rustburg STP	Molleys Cr.	WQ	17.94
WQMA VI	Drakes Branch	West Point Stevens - Drakes Branch	Twittys Cr.	EL	27.82
WQMA VII	Clarksville	Chase City Regional STP	Little Blue Stone Cr.	WQ	N/A ¹
WQMA VII	Chase City- Boynton	Boynton Clarksville STP Burlington Industries- Clarksville	Coleman Cr. Kerr Reservoir Kerr Reservoir	EL WQ WQ	N/A ¹ 131.00 1793.00
WQMA VII	South Boston Halifax- Scottsburg Clover	South Boston STP Halifax STP, Halifax Cotton Mills, Burlington Ind. - Halifax and Scottsburg STP Clover	Dan River Banister R. Clover Cr.	WQ WQ EL	1854.00 584.84 8.76
WQMA VII	South Hill - Lacrosse - Broadnax	South Hill, Lacrosse and Broadnax	Flat Cr.	WQ	N/A ¹
WQMA VII	Virgilina	Virgilina	X-Trib. To Wolfpit Run	EL	13.00
WQMA IX	Chatham- Gretna	Chatham- Gretna	Cherrystone Cr. Georges Cr.	EL EL	125.22 100.00
WQMA X	Dan River	Danville and US Gypsum	Dan R.	WQ	4407.00
WQMA X	Dan River, Inc.	WILL DISCHARGE PROCESS WATER TO THE CITY OF DANVILLE STP			

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WQMA XII	Smith R.	Henry County PSA-Upper Smith R. STP	Smith R.	WQ	567.00	
		Collinsville STP Fieldcrest Mills	CONNECTED TO UPPER SMITH R. STP CONNECTED TO UPPER SMITH R. STP			
		E.I. duPont	Smith R.	WQ	503.00	
		Martinsville STP	Smith R.	WQ	1500.00	
		Henry County PSA-Lower Smith R. STP	Smith R.	WQ	567.00	
WQMA XIV	Stuart-Patrick Springs	Stuart STP	S. Mayo R.	EL	141.90	
		United Elastic Patrick Springs	S. Mayo R.	EL	8.38	
WQMA XIV	NONE	United Elastic Woolwine	Smith R.	EL	192.00	

NOTES:

¹See Table B3 of this section.

TABLE B3 - WASTELOAD ALLOCATIONS FOR DISCHARGERS WITH TIERED PERMITS ROANOKE RIVER
 BASIN WATER QUALITY MANAGEMENT PLAN.

Water Quality Manage- ment Area (WQMA)	Study Area Name	Discharger	Months	Effluent Flow (mgd)	D.O. (mg/l)	CBOD ₅ (lbs/day)	BOD ₅ (mg/l)	Ammonia (mg/l)	Total Kjeldahl Nitrogen (mg/l)
WQMA VI	Keysville	Keysville	Dec.-Apr.	0.500	5.0	104.32	25.0 ¹	1.4	4.0
			May-Nov.	0.500	5.0	70.94	17.0 ¹		

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WQMA VII	South Hill- Lacrosse- Broadnax	South Hill	Jan.-Feb.- March	1.000	6.5	250.00	30.0	20.0	
			Apr.-May	1.000	6.5	83.0	10.0	1.0	
			June-Sept	1.000	6.5	75.00	9.0	1.0	
			Oct.	1.000	6.5	83.00	10.0	1.0	
			Nov.	1.000	6.5	142.00	17.0	5.0	
			Dec.	1.000	6.5	250.00	30.0	20.0	
WQMA VII	Clarksville- Chase City- Boydton	Boydton	May-Nov.	0.360	5.0	39.1	13.0 ¹		3.0
			Dec.-Apr.	0.360	5.0	75.1	25.0 ¹		
WQMA VII	Clarksville- Chase City- Boydton	Chase City	May-Nov.	0.600	6.0	65.04	13.0 ¹	1.8	4.2
			Dec.-Apr.	0.600	7.0	125.22	25.0 ¹	3.4	8.8

NOTES:

¹CBOD₅ (CBOD₅/BOD₅=25/30).

TABLE B4 - SEGMENT CLASSIFICATION - STANDARDS UPPER ROANOKE RIVER SUBAREA

HUC CODE 03010101

Stream Name	303(e) Segment Number	Mile to Mile	Stream Classification	Comments
N.F. Roanoke River	4A-1	30.80 to 0.00	E.L.-P	Main and tributaries.

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S.F. Roanoke River	4A-1 16.60 to 0.00 E.L.-P Main and tributaries.	16.60 to 0.00	E.L.-P W.Q.-FC	Main and tributaries. Main only.
Roanoke River	4A-2	227.74 to 202.20	W.Q.-DO,P	Main only to 14th Street Bridge.
Peters Creek	4A-2	8.00 to 0.00	W.Q.-DO,P	Main only.
Roanoke River	4A-2	202.20 to 195.87	W.Q.-DO,P	Main to confluence with Prater Creek.
Tinker Creek	4A-2	19.40 to 0.00	W.Q.-DO,P, FC	Main only.
Beck Creek	4A-2	25.70 to 0.00	E.L.-P	Main and tributaries.
Roanoke River	4A-2	195.87 to 158.20	W.Q.- DO,P	Main and impounded tributaries (impounded portions only) to Smith Mtn. Dam.
Other tributaries to the Roanoke River	4A-2	227.74 to 158.20	E.L.-P	Tributaries only.
Blackwater River	4A-3	58.80 to 19.75	E.L.-P	Main and tributaries.

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Blackwater River	4A-3	19.75 to 0.00	W.Q.-DO,P	Main and impounded tributaries(impounded portions only) to mouth of Blackwater River.
Other tributaries to the Blackwater River	4A-3	58.80 to 0.00	E.L.-P	Tributaries only.
Pigg River	4A-4	79.80 to 58.00	E.L.	Main and tributaries from the headwaters to the confluence with Furnace Creek - except Story Creek.
Storey Creek	4A-4	10.30 to 0.00	W.Q.-DO	Main Only.
Pigg River	4A-4	58.00 to 47.60	W.Q.-DO	Main only from Furnace Creek to the confluence with Powder Mill Creek.
Pigg River	4A-4	47.60 to 0.00	E.L.	Main and tributaries.
Roanoke River	4A-5	158.20 to 140.54	E.L.	Main and tributaries. (Leesville Lake)
Goose Creek	4A-5	39.30 to 0.00	E.L.	Main and tributaries.
Little Otter River	4A-5	17.15 to 14.36	E.L.	Main and tributaries to confluence with Johns Creek.
Johns Creek	4A-5	4.00 to 0.00	W.Q.-DO	Main only.

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Little Otter River	4A-5	14.36 to 0.00	W.Q.-DO	Main only from confluence with Johns Creek to Big Otter River.
Big Otter River	4A-5	42.68 to 0.00	E.L.	Main and tributaries.
Roanoke River	4A-5	140.54 to 123.79	E.L.	Main and tributaries.

Legend:

DO = Dissolved Oxygen

P = Phosphorus

FC = Fecal Coliform

T = Temperature

TABLE B5 - WASTELOAD ALLOCATIONS BASED ON EXISTING DISCHARGE POINT 1 UPPER ROANOKE

RIVER SUBAREA

HUC 03010101

MAP LOCATION	STREAM NAME	SEGMENT NUMBER	SEGMENT CLASSIFICATION STANDARDS	MILE to MILE ²	DISCHARGER	VPDES PERMIT NUMBER	VPDES PERMIT LIMITS BOD ₅ ⁴ kg/day	303(e) 3/ WASTELOAD ALLOCATIO N BOD ₅ ⁴ kg/day	TOTAL MAXIMUM DAILY LOAD W.Q. SEGMENTS BOD ₅ ⁴ kg/day
A	S.F. Roanoke R.	4A-1	E.L.-P WQ-FC	6.33-	Montgomery County PSA Shawsville STP	VA0024031	11.40	Secondary	
B	S.F. Roanoke R.	4A-1	E.L.-P	0.76-	Montgomery County PSA Elliston-Lafayette STP	VA0062219	28.00	Secondary	

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C	X-trib to N.F. Roanoke R.	4A-1	E.L.-P	0.25-	Lonnie J. Weddle Residence	VA0073229	0.03	Secondary	
D	X-trib to N.F. Roanoke R.	4A-1	E.L.-P	0.25-	James Luther Residence	VA0073237	0.05	Secondary	
E	N.F. Roanoke R.	4A-1	E.L.-P	17.57-	Blacksburg Country Club, Inc.	VA0027481	4.00	Secondary	
I	Cedar Run	4A-1	E.L.-P	2.64- 0.46-	Wolverine Gasket Co., Inc	VA0052825	N/A	Secondary	
F	Cedar Run	4A-1	E.L.-P	0.40-	Wendell Hensley Residence	VA0066737	0.07	Secondary	
G	X-trib to Cedar Run	4A-1	E.L.-P	0.20-	Ivan Gary Bland Residence	VA0077488	0.05	Secondary	
H	Cedar Run	4A-1	E.L.-P	0.46-	Velma D. Compton Residence	VA0080021	0.06	Secondary	
2	N.F. Roanoke R.	4A-1	E.L.-P	15.21-	Federal Mogal, Inc.	VA0001619	N/A	Secondary	
I	N.F. Roanoke R.	4A-1	E.L.-P	0.76-	VDOT-I-81 Ironto Rest Area	VA0060941	2.80	Secondary	
3	X-trib to Roanoke R.	4A-2	E.L.-P	1.04-	Salem Stone Corp.	VA0006459	N/A	Secondary	
4	Roanoke R.	4A-2	W.Q.-DO,P	218.13-	Roanoke Electric Steel Salem Plant	VA0001333	N/A	N/A	N/A
5	Roanoke R.	4A-2	W.Q.-DO,P	216.33-	Koppers Co. Inc.	VA0001341	N/A	N/A	N/A
6	Snyders Br.	4A-2	E.L.P	0.17-	Graham White Mfg., Inc.	VA0030031	N/A	Secondary	
7	Bowmans's Br.	4A-2	E.L.P.	0.20-	Mechanical Development Co., Inc.	VA002311	N/A	Secondary	
8	Roanoke R.	4A-2	W.Q.-DO,P	212.61-	Rowe Furniture Corp., Inc.	VA0024716	N/A	N/A	N/A

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9	Roanoke R.	4A-2	W.Q.L.-DO,P	212.39-	Valleydale Packers, Inc.	VA0001317	N/A	N/A	N/A
J	X-trib to Mason Cr.	4A-2	E.L.P.	0.21	Gary L. Bryant Residence	VA0063398	0.07	Secondary	
K	Mason Cr.	4A-2	E.L.P.	0.30-	Roanoke County Schools Mason Cove E.S.	VA0027545	0.45	Secondary	
L	Mason Cr.	4A-2	E.L.P.	7.79-	Roanoke Moose Lodge 284	VA0077895	0.53	Secondary	
M	Gish Br.	4A-2	E.L.P.	1.80-	Eddie Miller Residence	VA0076759	0.06	Secondary	
10	Roanoke R.	4A-2	W.Q.-DO,P	209.58-	Virginia Plastics Co., Inc.	VA0052477	N/A	N/A	N/A
10	X-trib to Mud Lick	4A-2	E.L.P.	0.47-	Virginia Plastics Co., Inc.	VA002477	2.70	Secondary	
11	Peters Cr.	4A-2	W.Q.-DO,P	0.26-	Roanoke Electric Steel Roanoke Plant	VA0001589	N/A	N/A	N/A
12	Roanoke R.	4A-2	W.Q.-DO,P	207.60-	Fuel Oil & Equipment Co., Inc.	VA0001252	N/A	N/A	N/A
13	Roanoke R.	4A-2	W.Q.-DO,P	207.24	Norfolk & Western Railways Co., Inc.-Schaffers Crossing	VA0001597	N/A	N/A	N/A
13	Horton Cr.	4A-2	E.L.P.	0.41-	Norfolk & Western Railways Co., Inc.-Schaffers Crossing	VA0001597	N/A	Secondary	
N	Roanoke	4A-2	W.Q.-DO,P	201.81-	Roanoke City Regional STP	VA0025020	1173.00	1173.00	1352.00

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14	Carvin Cr.	4A-2	E.L.-P.	5.77-	Roanoke City Carvin Cove	VA0001473	N/A	Secondary	
15	Carvin Cr.	4A-2	E.L.-P.	4.98-	ITT Electro- Optical Products Division	VA0020443	N/A	Secondary	
16	Tinker Cr	4A-2	W.Q.-DO,P,FC	5.17	Elizabeth Arden, Inc.	VA0001635	N/A	N/A	N/A
17	Tinker Cr	4A-2	W.Q.-DO,P,FC	1.45	Exxon Company, USA, Inc.	VA0079006	N/A	N/A	N/A
18	Lick Run	4A-2	E.L.-P.	3.51-	Norfolk & Western Railways Co., Inc.-Schaffers Crossing	VA0001597	N/A	Secondary	
18	Lick Run	4A-2	E.L.-P.	1.12-	Norfolk & Western Railways Co., Inc.-East End Shops	VA0001511	N/A	Secondary	
O	X-trib to Glade Cr	4A-2	E.L.-P.	1.60-	R.W. Bowers Commerical	VA0068497	0.06	Secondary	
P	X-trib to Glade Cr	4A-2	E.L.-P.	1.24-	Geraldine B. Carter Residence	VA0076546	0.06	Secondary	
Q	Coyner Spring Br.	4A-2	E.L.-P.	0.50-	Roanoke City- Coyner Springs STP	VA0021121	0.80	Secondary	
R	Back Cr.	4A-2	E.L.-P.	16.14-	Roanoke Sanitary Disposal Corp.-Starkey STP	VA0027103	45.40	Secondary	
19	Back Cr.	4A-2	E.L.-P.	1.48-	Shell Oil Co., Inc.	VA0001431	N/A	Secondary	

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S	X-trib to Back Cr.	4A-2	E.L.-P.	1.00-	Suncrest Development Co., Inc.- Suncrest Heights STP	VA0028711	2.30-	Secondary	
20	Falling Cr.	4A-2	E.L.-P.	7.70-	Roanoke City- Falling Cr. WTP	VA0001465	N/A	Secondary	
T	X-trib to Falling Cr.	4A-2	E.L.-P.	0.32-	Oak Ridge Mobile Home Park	VA0078392	3.40	Secondary	
U	Nat Branch	4A-2	E.L.-P.	0.59-	Bedford County Schools Stewartsville E.S.	VA0020842	0.50	Secondary	
V	Roanoke R.	4A-2	W.Q.-DO,P	182.76-	L. Jack & Vicki S. Browning Residence	VA0067229	0.07	0.07	170.07
W	X-trib to Little Cr.	4A-2	E.L.-P.	0.16-	Robert R. Walter Residence	VA0074004	0.05	Secondary	
X	X-trib to Teals Cr.	4A-3	E.L.-P.	0.96-	Franklin County Schools Boones Mill E.S.	VA0060291	0.50	Secondary	
21	Blackwater R.	4A-3	E.L.-P.	40.05-	Rocky Mount Town Blackwater R. WTP	VA0055999	N/A/	Secondary	
Y	Blackwater R.	4A-3	E.L.-P.	38.95-	Franklin Manor Home for Adults	VA0067555	1.70	Secondary	
Z	X-trib to Blackwater R.	4A-3	E.L.-P.	1.15-	Franklin County Schools Rocky Mount E.S.	VA0060283	0.80	Secondary	
AA	X-trib to Maggodee Cr.	4A-3	E.L.-P.	0.28-	Boones Mill Town- Sand Filter	VA0078401	0.50	Secondary	

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AB	Maggodee Cr.	4A-3	E.L.-P.	14.51	Boones Mill Town STP	VA0067245	3.40	Secondary	
AC	Roanoke R.	A-5	E.L.-P.	158.09-	APCO- SML Dam Visitors Center	VA0074179	0.57	Secondary	
AD	Roanoke R.	4A-5	E.L.-P.	157.49-	APCO- SML Dam Picnic Area	VA0074217	0.57	Secondary	
AE	Storey Cr.	4A-4	W.Q.-DO	9.78-	Ferrum Water & Sewage Authority Ferrum STP	VA0029254	14.20	14.20	14.60
23	X-trib to Pigg R.	4A-4	E.L.	1.28-	The Lane Company-Rocky Mount Plant	VA0098438	N/A	Secondary	
22	Pigg R.	4A-4	W.Q.-DO	57.24-	Ronile, Inc.	VA0076015	14.80	14.80	34.98
AF	Pigg R.	4A-4	W.Q.-DO	56.72-	Rocky Mt. Town Existing STP	VA0023728	133.00	133.00	153.18
				52.68-	Rocky Mt. Town Proposed STP	VA0085952		133.00	
24	X-trib to Powder Mill Cr.	4A-4	E.L.	1.64-	Rocky Top Wood Preservers Inc.	VA0080071	N/A	Secondary	
AG	Willow Cr.	4A-4	E.L.	1.30-	Town & Country Subdivision	VA0028657	4.50	Secondary	
25	S.F. Goose Cr.	4A-5	E.L.	6.77-	Blue Ridge Stone Corp.- Blue Ridge Plant	VA0050636	N/A	Secondary	
AH	X-trib to Goose Cr.	4A-5	E.L.	0.66-	Woodhaven Village, Inc.	VA0074870	0.50	Secondary	
26	X-trib to Goose Cr.	4A-5	E.L.	0.08	Conoco, Inc.	VA0055328	N/A	Secondary	
27	S.F. Goose Cr.	4A-5	E.L.	2.58-	Chevron USA, Inc.	VA0026051	N/A	Secondary	

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28	X-trib to Goose Cr.	4A-5	E.L.	0.20-	Phillips Petroleum Co., Inc.	VA0051446	N/A	Secondary	
29	X-trib to Goose Cr.	4A-5	E.L.	0.04-	Amoco Oil Co., Inc.	VA0054577	N/A	Secondary	
29	X-trib to Goose Cr.	4A-5	E.L.	0.06-	Amoco Oil Co., Inc.	VA0054577	N/A	Secondary	
29	X-trib to Goose Cr..	4A-5	E.L.	0.14-	Amoco Oil Co., Inc.	VA0054577	N/A	Secondary	
30	S.F. Goose Cr.	4A-5	E.L.	2.30-	Colonial Pipeline Co., Inc.	VA0051721	N/A	Secondary	
AI	X-trib to N.F. Goose Cr..	4A-5	E.L.	0.20-	Bedford County Schools- Montvale E.S.	VA0066206	0.42	Secondary	
31	S.F. Goose Cr.	4A-5	E.L.	2.18-	Texaco, Inc.	VA0001490	N/A	Secondary	
AJ	X-trib to Day Cr.	4A-5	E.L.	1.79-	Camp Virginia Jaycee Inc.	VA0060909	1.70	Secondary	
AK	X-trib to Reed Cr.	4A-5	E.L.	0.84-	Robincrest Mobile Home Park	VA0078413	2.70	Secondary	
AL	X-trib to Wolf Cr.	4A-5	E.L.	0.95	Bedford County Schools Thaxton E.S.	VA0020869	0.30	Secondary	
AM	X-trib to Shoulder Run	4A-5	E.L.	0.95-	Bedford County Schools- Staunton River H.S.	VA0068063	2.90	Secondary	
AN	Goose Cr.	4A-5	E.L.	19.55-	Camp Tipacanoe Inc.	VA0068063	1.10	Secondary	
AO	Mattock Cr.	4A-5	E.L.	3.76-	VDOC- Filed Unit #24 Smith Mtn. Lake	VA0023515	2.40	Secondary	

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32	Staunton (Roa.) R	4A-5	E.L.	129.72-	Burlington Industries-Klopman Division Altavista Plant	VA0001678	530.00	Secondary	
33	Staunton (Roa.) R	4A-5	E.L.	128.96-	Altavista Town WTP	VA0027189	N/A	Secondary	
34	Staunton (Roa.) R	4A-5	E.L.	128.94-	The Lane Co., Inc. Altavista Plant	VA0001520	N/A	Secondary	
	Staunton (Roa.) R	4A-5	E.L.		Town of Hurt (Proposed)			Secondary	
AP	Staunton (Roa.) R	4A-5	E.L.	127.96-	Altavista Town STP	VA0020451	204.00	Secondary	
35	Staunton (Roa.) R	4A-5	E.L.	126.39-	Ross Laboratories	VA0001716	66.20 4	Secondary	
36	X-trib to Big Otter R.	4A-5	E.L.	1.63-	Bedford City WTP	VA0001503	N/A	Secondary	
37	Roaring Run	4A-5	E.L.	3.26-	Gunnoe Sausage Co., Inc.	VA0001449	0.55	Secondary	
AQ	X-trib to Big Otter R.	4A-5	E.L.	1.15-	Bedford County Schools Otter River E.S.	VA0020851	0.40	Secondary	
38	X-trib to Little Otter R.	4A-5	E.L.	0.76-	Wheelbrator Frye, Inc.	VA0058033	N/A	Secondary	
AR	X-trib to Little Otter R.	4A-5	E.L.	0.42-	Bedford County Schools -Liberty H.S.	VA0020796	2.80	Secondary	
AS	Little Otter R.	4A-5	W.Q.-DO	14.36-	Bedford City STP	VA0022390	52.80	52.80	64.15
39	Johns Cr.	4A-5	W.Q.-DO	2.61-	Golden West Foods, Inc.	VA0056430	N/A	N/A	N/A
AT	X-trib to Wells Cr.	4A-5	E.L.	2.22-	Bedford Country Schools Body Camp E.S.	VA0020818	0.40	Secondary	

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AU	X-trib to Big Otter R.	4A-5	E.L.	1.20-	David T. Callahan Residence	VA0080667	0.57	Secondary	
AV	X-trib to Buffalo Cr	4A-5	E.L.	0.67-	Bedford Country Schools New London Academy	VA0020826	0.50	Secondary	
AW	Buffalo Cr	4A-5	E.L.	12.42-	Alum Springs Shopping Center	VA0078999	4.50	Secondary	
40	Big Otter R.	4A-5	E.L.	11.74-	Campbell Country USA (Proposed WTP)	VA0078646	N/A	Secondary	
BF	X-trib to Big Otter R	4A-5	E.L.	1.07-	Otterwood Grocery Store	VA0082732	0.05	Secondary	
AX	Flat Cr.	4A-5	E.L.	13.34-	Virginia Track & Equipment Corp.	VA0068594	0.03	Secondary	
BD	X-trib to Flat Cr.	4A-5	E.L.	0.68	Montague Betts Co, Inc.	VA0075116	0.45	Secondary	
41	Flat Cr.	4A-5	E.L.	12.62-	Blue Ridge Stone Corp. Lynchburg Plant	VA0050628	N/A	Secondary	
AY	X-trib to Flat Cr.	4A-5	E.L.	0.12-	Winebarger Corp	VA0074969	0.70	Secondary	
AZ	Smith Br.	4A-5	E.L.	2.82-	Briarwood Village	VA0031194	2.70	Secondary	
BE	X-trib to Flat Cr.	4A-5	E.L.	0.88-	Ralph P. Shepard Residence	VA0081591	0.05	Secondary	
BA	X-trib to Flat Cr.	4A-5	E.L.	1.16-	Phillips, Arthur, Phillips Tract #6	VA0068098	0.05	Secondary	
BB	X-trib to Flat Cr.	4A-5	E.L.	1.12-	Kyle E. & Annette D. Shupe Residence	VA0068080	0.05	Secondary	
BC	X-trib to Flat Cr.	4A-5	E.L.	1.08-	Wayne E. & Sherina D. Shupe Residence	VA0068071	0.05	Secondary	

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BG	X-trib to Troublesome Cr.	4A-5	E.L.	2.15-	Kelly Convenience Store	VA0067078	0.11	Secondary	
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NOTES:

N/A - Not Applicable - currently no BOD₅ limits or wasteload have been required by the VPDES Permit. Should BOD₅ be required a WQMP amendment would be necessary for Water Quality Limited Segments only.

¹Secondary Treatment levels are required in Effluent Limited segments. Quantities listed for Water Quality Limited segments represent wasteload allocation.

²Ending river miles are not available at this time.

³These allocations represent current and original (1976 WQMP) modeling with the exception of the Altavista segment, river miles 130.00 to 119.00 on the Staunton (Roanoke) River. Future revisions may be necessary based on State Water Control Board approved modeling.

⁴The VPDES Permit limit presented here is a future loading, not the current VPDES Permit limitation. The permitting process will determine the current loading not to exceed 1173 kg/d WLA established by this plan.

⁵The current permitted BOD₅ loading for this facility is 30 mg/l monthly average and 45 mg/l daily maximum. Based on maximum flowes reported by this facility for 1987-88 (0.389 mgd) the resulting wasteload is 66.2 kg/d. Revocation of the permit has been requested by the permittee.

9 VAC 25-720-100. Chowan River – Dismal Swamp River Basin.

A. Total maximum Daily Load (TMDLs).

TMDL #	Stream Name	TMDL Title	City/County	WBID	Pollutant	WLA	Units
1.	Unnamed Tributary to Hurricane Branch	Benthic TMDL for Hurricane Branch Unnamed Tributary, Virginia	Nottoway	K16R	Sediment	60.9	T/YR

9 VAC 25-720-130. New River.

A. Total maximum Daily Load (TMDLs).

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TMDL #	Stream Name	TMDL Title	City/County	WBID	Pollutant	WLA	Units
1.	Stroubles Creek	Benthic TMDL for Stroubles Creek in Montgomery County, Virginia	Montgomery	N22R	Sediment	233.15	T/YR
2.	Back Creek	Fecal Bacteria and General Standard Total Maximum Daily Load Development for Back Creek Watershed, Pulaski County, VA	Pulaski	N22R	Sediment	0.28	T/YR
3.	Crab Creek	Fecal Bacteria and General Standard Total Maximum Daily Load Development for Crab Creek Watershed, Montgomery County, VA	Montgomery	N18R	Sediment	77	T/YR
4.	Peak Creek	Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak Creek Watershed, Pulaski County, VA	Pulaski	N17R	Copper	12	KG/YR
5.	Peak Creek	Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak Creek Watershed, Pulaski County, VA	Pulaski	N17R	Zinc	57	KG/YR
<u>6.</u>	<u>Bluestone River</u>	<u>Fecal Bacteria and General Standard Total Maximum Daily Load Development for Bluestone River</u>	<u>Tazewell</u>	<u>N36R</u>	<u>Sediment</u>	<u>81.4</u>	<u>T/YR</u>

B. Stream segment classifications, effluent limitations including water quality based effluent limitations, and waste load allocations.

TABLE B1- SEWERAGE SERVICE AREAS

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Map1 No.	Locality	Receiving2 Stream Classification	NPDES Limits3			Status of Applicable4 Section 201 Programs (January 1980)
			Flow	BOD5	SS	
			(mgd)	(kg/day)	(kg/day)	
	Abbs Valley	WQ	Permit not needed at present			Not on priority list
	Austinville	EL	Permit not needed at present			Not on priority list
	Bastian	EL	Permit not needed at present			Continue to use septic tanks for present
1	Blacksburg	EL	6.0	544.8	544.8	Completed
	Bland	EL	Permit to be issued in future			Not on priority list
29	Bluefield	WQ	3.5	106	106	Near Completion
	Boissevain	WQ	Effluent treated at Pocahontas			Redesign to treat at Pocahontas underway
2	Christiansburg	WQ	2.0	113.5	113.5	Completed
3	Dublin	EL	.22	29.9/49.9	29.9/49.9	To be connected to Pepper's Ferry STP (Radford Cluster) in FY-80
	Elk Creek	EL	Permit not needed at present			Continue to use septic tanks
4	Fairlawn	EL	.26	47	47	To be connected to Pepper's Ferry STP (Radford Cluster)
	Falls Mills	WQ	.144	5.5	5.5	Step I approved; limits for new plant
	Flat Ridge	EL	Permit not needed at present			Not on priority list
*5	Floyd	EL	.1	59.0	45.4	Small community; Step IV
13	Fries	EL	.02	11.8	9.1	Step I approved
14			.16	94.5	72.7	
17	Galax	EL	1.5	170	170	Not on priority list
	Glen Lyn	EL	Permit not needed at present			Not on priority list
15	Hillsville	EL	.2	23	23	Step I to be approved soon

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16			.15	17	17	
*18	Independence	EL	.2	22.7	22.7	Step I approved; selected alternative was for one plant
19			.1	11.4	11.4	
	Ivanhoe	EL	Permit not needed at present			Continue to use septic tanks
	Max Meadows	EL	Permit to be issued in future			Not on priority list
	Mechanicsburg	EL	Permit not needed at present			Not on priority list
6	Narrows	EL	0.60	354.0	272.0	Step I at EPA; Step II - FY-80
	Newport	EL	Permit not needed at present			Not on priority list
7	Pearisburg	EL	0.30	177.0	136.0	Step I at EPA; Step II - FY-80; Step III - FY-84
	Pembroke	EL	Permit not needed at present			Not on priority list
*30	Pocahontas	WQ	.15	17	17	Step I grant approved to correct I/I problems
8	Pulaski	EL	2.0	234/303	234	To be connected to Pepper's Ferry STP (Radford Cluster) in FY-80 (Step II)
9	Radford STP	EL	2.5	1475	925	Step II - FY-80
*10	Rich Creek	EL	.12	71	54	Step I at EPA, Step IV - FY-83
31	Riner	EL	.035	4.0	4.0	Completed
	Rocky Gap	EL	Permit not needed at present			Continue to use septic tanks for present
12	Rural Retreat	EL	0.15	37.5	37.5	Step I to be completed in FY-80
	Speedwell	EL	Permit not needed at present			Continue to use individual septic tanks for present
	Troutdale	EL	Permit not needed at present			Continue to use individual septic tanks for present

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	Woodlawn	EL	Permit to be issued in future			Not on priority list
11	Wytheville	EL	20	400	200	Sewage treatment plant completed

1Discharges are shown on Plate 3.

2Effluent Limiting (E.L.) or Water Quality Limiting (WQ).

3For existing sewage treatment facility.

4For new sewage treatment facility.

*Small communities with combined Step II and III Grants.

TABLE B2- EFFLUENT LIMITS(1) (4) NEW RIVER BASIN

Discharge	Receiving Stream	Maximum BOD5 Loading Limits (kg/day)
Troutdale	Fox Creek	6.1
Independence	Peachbottom Creek	13.5
Fries	New River	50.5
Galax	Chestnut Creek	240.3
Hillsville	Little Reed Island Creek	99.6
Woodlawn	Crooked Creek	69.5
Speedwell	Cripple Creek	17.4
Austinville	New River	19.5
Rural Retreat	South Fork	50.5
Wytheville	Reed Creek	298.3
Max Meadows	Reed Creek	82.4
(3)Pulaski	Peak Creek	316.8
Floyd	Dodd Creek	24.1
Riner	Mill Creek	9.8
Blacksburg	New River	583.4
Christiansburg	Crab Creek	359.4
(3)Dublin-New River- Fairlawn-Radford-Plum Creek	New River	772.7
Newport	Sinking Creek	2.9
Pembroke	New River	28.4

Bland	Walker Creek	10.3
Mechanicsburg	Walker Creek	3.1
Narrows-Pearisburg	New River	110.8
Bastian	Wolf Creek	10.4
Rocky Gap	Wolf Creek	9.0
Rich Creek	Rich Creek	19.9
Glen Lyn	New River	5.7
Bluefield	Bluestone River	136.4
(2) Abbs Valley	Laurel Fork	11.4
(2) Pocahontas	Laurel Fork	5.5
(2) Boissevain	Laurel Fork	5.9

(1) Other effluent limitations will be determined by Water Quality Standards and/or Best Available Technology requirements.

(2) Secondary treatment will be required until a further verification of the model is made to document the need for treatment beyond secondary.

(3) To join Radford Cluster.

(4) This table supersedes Table 152, page 199, Thompson & Litton, Inc., New River Basin Comprehensive Water Resources Plan, Volume V-A.

TABLE B3- NEW RIVER BASIN INDUSTRIAL EFFLUENT LIMITATIONS*

Parameters in Average kg/day or (Concentration) as mg/l

FACILITY NUMBER

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MAP NUMBER	BOD5	SS	OIL & GREASE	IRON	COPPER	
20 APCO						
004		382	192			
401	1.14			(1.0) MAX	(1.0) MAX	
501		1.14				
006		318	159			
21 Burlington Industries	BOD5	SS	PHENOLS	SULFIDE	ALUMINUM	
001						
	346	354	1.7	0.9	1.0	
22 Celanese Fibers Co.	FLOW	BOD5	SS	COD		
002	(MGD)					
003	2.8	(30)				
	3.5	2,999	2,023	27,694		
23 Hercules, Inc.	SS					
001	34					
24 Lynchburg Foundry	SS	OIL & GREASE	PHENOLS			
001						
	143	53.1	1.04			
25 RAAP Combined Ind.	FLOW	BOD5	SS	COD	OXIDIZED NITROGEN	SULFATE
026	(MGD)					
	1.0	114	6,714	237	18,697	565
			114			67

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26	New Jersey Zinc	BOD5	SS	TOTAL	CYANIDE	DISSOLVED LEAD	DISSOLVED ZINC	DISSOLVED IRON
001			(38)			(0.25)	(1.0)	(0.3)
002			(.30)			(0.25)	(1.0)	(0.25)
003			(20)	(0.02)		(0.35)	(1.0)	(0.25)
004			(30)	(0.02)		(1.0)	(0.25)	
005			(30)	(0.25)		(0.25)	(1.0)	(0.25)
006		2.3	2.3			-----	-----	-----
27	Elk Creek Raycarl Products	SS	OIL & GREASE	IRON		PHOSPHATE	ZINC	
		(5)	(10)	(1)		(2)	(0.5)	
28	Fields Mfg	BOD5	SS	OIL & GREASE	TEMP.			
		3.6	4.1	0.8	75°F			

Certified True and Accurate: _____
Robert G. Burnley
 Director, DEQ

Date: _____