

[prev](#) | [next](#)**9VAC25-720-60. 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
5.	Unnamed Tributary to Chickahominy River	Total Maximum Daily Load (TMDL) Development for the Unnamed Tributary to the Chickahominy River	Hanover	G05R	Total Phosphorus	409.35	LB/YR
6.	Rivanna River	Benthic TMDL Development for the Rivanna River Watershed	Albemarle, Greene, Nelson, and Orange	H27R H28R	Sediment	10,229	Lbs/Day
7.	Jackson River	Benthic TMDL Development for the Jackson River, Virginia	Alleghany, Bath, Highland	I04R, I09R	Total Phosphorus	72,955	LB/GS ¹
8.	Jackson River	Benthic TMDL Development for the Jackson River, Virginia	Alleghany, Bath, Highland	I04R, I09R	Total Nitrogen	220,134	LB/GS
9.	Little Calfpasture	Total Maximum Daily Load Development to Address a Benthic Impairment in the Little Calfpasture	Rockbridge	132R	Sediment	30.4	T/YR

		River, Rockbridge County, Virginia				
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¹ GS means growing season.

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

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

Stream Name	Segment Number	Classification	Mile to Mile	Significant Discharges	Total Assimilative Capacity of Stream BOD ₅ lbs/day	Wasteload Allocation BOD ₅ lbs/day ²	Reserve BOD ₅ lbs/day ⁵
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-	Millboro	Self -	None	None

			0.0		sustaining		
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	102.0 ³	238.0 (31%)
				Buena Vista STP		420.0	
Maury River	2-4	E.L.	1.2-0.0	Lees Carpets	790.0	425.0 ³	290.0 (37%)
				Glasgow STP		75.0	
James River	2-5	W.Q.	271.5-266.0	Owens-Illinois	4,640.0	4,640.0 ³	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		40.0 ³	
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	Lovingston 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	19.3 ⁶	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	20.0 ³	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%)
				Schwarzenbach Huber		88.0 ³	
Unnamed Tributary of Whispering Creek	2-6	E.L.	1.2-0.0	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	50.3 ^{11,12}	50.1 ^{11, 12}	0.2 (0.4%) 11,12,13

¹Recommended classification.

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

³Load allocation based on published NPDES permits.

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

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

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

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

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

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

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

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

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

¹³0.4 percent reserve: determined by SWCB Piedmont Regional Office.

Source: Wiley & Wilson, Inc.

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

Stream Name	Segment Number	Classification ¹		Significant Discharges	Total Assimilative Capacity of Stream BOD ₅ lbs/day	Wasteload ² Allocation BOD ₅ lbs/day	Reserve ⁴ BOD ₅ 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%)
Maury River	2-4	E.L.	1.2-0.0	Lees Carpet	790.0	425.0 ³	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-	Crewe S.T.P.	69.0	55.0	14.0 (20%)

			12.8			
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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.

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 to ² MILE	DISCHARGER	VPDES PERMIT NUMBER	VPDES PERMIT LIMITS BOD ₅ kg/day	303(e) ³ WASTELOAD ALLOCATION BOD ₅ kg/day
1	Jackson River	2-1	E.L.	93.05-	Virginia Trout	VA0071722	N/A	Secondary
B	Warm Springs Run	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
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	4,195.00 ⁴
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 STP ⁷	VA0027979	22.70	22.70
M					D.S. Lancaster CC ⁸	VA0028509	3.60	3.60
L					Selma STP ⁹	VA0028002	59.00	59.00
10					The Chessie System ¹⁰	VA0003344	N/A	N/A
N					Clifton Forge STP ¹¹	VA0002984	227.00	227.00
11					Lydall ¹²	VA0002984	6.00	6.00
P					Iron Gate STP ¹³	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
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	Cliftdale ¹⁴ 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 STP ¹⁵ (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
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.

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

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

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

⁴The 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.

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

⁶The discharge is at Jackson River mile 19.22.

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

⁸The discharge is at Jackson River mile 6.67.

⁹The discharge is at Jackson River mile 5.14.

¹⁰The discharge is at Jackson River mile 4.72.

¹¹The discharge is at Jackson River mile 3.46.

¹²The discharge is at Jackson River mile 1.17

¹³The discharge is at Jackson River mile 0.76

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

¹⁵The 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.

TABLE B7 - RICHMOND CRATER INTERIM WATER QUALITY MANAGEMENT PLAN – CURRENT PERMITTED WASTE LOADS (March 1988)

	SUMMER (June-October)					WINTER (November-May)						
	FLOW (mgd)	BOD ₅		NH ₃ -N ¹		DO ² (mg/l)	FLOW (mgd)	BOD ₅		NH ₃ -N ¹		DO ² (mg/l)
		(lbs/d)	(mg/l)	(lbs/d)	(mg/l)			(lbs/d)	(mg/l)			
City of Richmond STP ³	45.00	3002	8.0	-	-	-	45.00	5367	14.3	(lbs/d)	-	-
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	-	-	-	-
Henrico STP	30.00	3005	12.0	-	-	5.9	30.00	7260	29.0	7	-	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				

¹NH₃-N values represent ammonia as nitrogen.

²Dissolved oxygen limits represent average minimum allowable levels.

³Richmond STP's BOD₅ is permitted as CBOD₅

TABLE B7 - WASTE LOAD ALLOCATIONS FOR THE YEAR 1990

	SUMMER (June-October)					WINTER (November-May)					
	FLOW (mgd)	CBOD ₅		NH ₃ -N ^{1,3}		DO ² (mg/l)	CBOD ₅		NH ₃ -N ¹		DO ² (mg/l)
		(lbs/d)	(mg/l)	(lbs/d)	(mg/l)		(lbs/d)	(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
Henrico STP	30.00	3002	12.0	2403	9.6	5.6
American Tobacco Co.	2.70	715		113		5.8
ICI Americas, Inc.	0.20	167		8		5.8
Phillip Morris- Park 500	2.20	819		92		4.6
Allied (Chesterfield)	53.00	1255		442		5.7
Allied (Hopewell)	165.00	2750		10326		6.1
Hopewell Regional WTF	34.07	12502	44.0	12091	36.2	4.8
Petersburg STP	15.00	2802	22.4	801	6.4	5.0
TOTAL	380.81	31084		28978		

	172		8		6.5
	4756	19.0	3504	44.0	5.6
	715		113		5.8
	167		8		3.1
	819		92		4.6
	1255		442		5.7
	2750		10326		6.1
	12502	44.0	10291	36.2	4.8
	2802	22.4	2028	16.2	5.0
	36679	35958			

¹NH₃-N values represent ammonia as nitrogen.

²Dissolved oxygen limits represent average minimum allowable levels.

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

TABLE B7 - WASTE LOAD ALLOCATION FOR THE YEAR 2000

	SUMMER (June-October)					
	FLOW (mgd)	CBOD ₅		NH ₃ -N ^{1,3}		DO ² (mg/l)
		(lbs/d)	(mg/l)	(lbs/d)	(mg/l)	
City of Richmond STP	45.08	3002	8.0	2403	6.4	5.6
E. I. DuPont-Spruance	196.99	948		590		4.4
Falling Creek STP	10.10	1348	16.0	539	6.4	5.9
Proctor's Creek STP	16.80	1602	11.4	961	6.9	5.9
Reynolds Metals Co.	0.78	172		13		6.5
Henrico STP	32.80	3002	11.0	2403	8.8	5.6
American Tobacco Co.	3.00	715		113		5.8
ICI Americas, Inc.	0.20	167		8		5.8
Phillip Morris- Park 500	2.90	819		92		4.6
Allied (Chesterfield)	56.00	1255		442		5.7
Allied (Hopewell)	170.00	2750		10326		6.1
Hopewell Regional WTF	36.78	12502	40.7	12091	33.5	4.8
Petersburg STP	15.00	2802	22.4	801	6.4	5.0
TOTAL	406.43	31084		28982		

WINTER (November-May)				
CBOD ₅		NH ₃ -N ¹		DO ² (mg/l)
(lbs/d)	(mg/l)	(lbs/d)	(mg/l)	
5367	14.3	5707	15.2	5.6
948		756		2.9
2023	24.0	1281	15.2	5.9
2403	17.1	1402	10.0	5.9
172		13		6.5
4756	17.4	3504	12.8	5.6
715		113		5.8
167		8		3.1
819		92		4.6
1255		442		5.7
2750		10326		6.1
12502	40.7	10291	33.5	4.8
2802	22.4	2028	16.2	5.0
36679		35963		

¹NH₃-N values represent ammonia as nitrogen.

²Dissolved oxygen limits represent average minimum allowable levels.

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

TABLE B7 - WASTE LOAD ALLOCATIONS FOR THE YEAR 2010

	SUMMER (June-October)					
	FLOW (mgd)	CBOD ₅		NH ₃ -N ^{1,3}		DO ² (mg/l)
		(lbs/d)	(mg/l)	(lbs/d)	(mg/l)	

WINTER (November-May)				
CBOD ₅		NH ₃ -N ¹		DO ² (mg/l)
(lbs/d)	(mg/l)	(lbs/d)	(mg/l)	

City of Richmond STP	45.86	3002	7.8	2403	6.3	5.6	5367	14.0	5707	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		

¹NH₃-N values represent ammonia as nitrogen.

²Dissolved oxygen limits represent average minimum allowable levels.

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

C. Nitrogen and phosphorus waste load allocations to restore the Chesapeake Bay and its tidal rivers.

The following table presents nitrogen and phosphorus waste load allocations for the identified significant dischargers and the total nitrogen and total phosphorus waste load allocations for the listed facilities.

Virginia Waterbody ID	Discharger Name	VPDES Permit No.	Total Nitrogen (TN) Waste Load Allocation (lbs/yr)	Total Phosphorus (TP) Waste Load Allocation (lbs/yr)
I37R	Buena Vista STP	VA0020991	41,115	3,426
I09R	Clifton Forge STP	VA0022772	36,547	3,046
I09R	Covington STP	VA0025542	54,820	4,568
H02R	Georgia Pacific	VA0003026	122,489	49,658
I37R	Lees Carpets	VA0004677	30,456	12,182
I35R	Lexington-Rockbridge WQCF	VA0088161	54,820	4,568
I09R	Low Moor STP	VA0027979	9,137	761
I09R	Lower Jackson River STP	VA0090671	27,410	2,284
I04R	MeadWestvaco	VA0003646	394,400	159,892
H12R	Amherst STP	VA0031321	10,964	914
H05R	BWX Technologies Inc.	VA0003697	187,000	1,523
H05R	Greif Inc.	VA0006408	73,246	29,694
H31R	Lake Monticello STP	VA0024945	18,182	1,515
H05R	Lynchburg STP (1)	VA0024970	536,019	33,501
H28R	Moores Creek Regional STP	VA0025518	274,100	22,842
H38R	Powhatan CC STP	VA0020699	8,588	716
J11R	Crewe WWTP	VA0020303	9,137	761
J01R	Farmville WWTP	VA0083135	43,856	3,655
G02E	R. J. Reynolds	VA0002780	25,583	1,919

G01E	E I du Pont - Spruance	VA0004669	201,080	7,816
G01E	Falling Creek WWTP	VA0024996	153,801	15,380
G01E	Henrico County WWTP	VA0063690	1,142,085	114,209
G03E	Honeywell – Hopewell	VA0005291	1,090,798	51,592
G03R	Hopewell WWTP	VA0066630	1,827,336	76,139
G15E	HRSD – Boat Harbor STP	VA0081256	740,000	76,139
G11E	HRSD – James River STP	VA0081272	1,250,000	60,911
G10E	HRSD – Williamsburg STP	VA0081302	800,000	68,525
G02E	Philip Morris – Park 500	VA0026557	139,724	2,650
G01E	Proctors Creek WWTP	VA0060194	411,151	41,115
G01E	Richmond WWTP (1)	VA0063177	1,096,402	68,525
G02E	Dominion-Chesterfield (2)	VA0004146	352,036	210
J15R	South Central WW Authority	VA0025437	350,239	35,024
G07R	Chickahominy WWTP	VA0088480	6,167	123
G05R	Tyson Foods – Glen Allen	VA0004031	19,552	409
G11E	HRSD – Nansemond STP	VA0081299	750,000	91,367
G15E	HRSD – Army Base STP	VA0081230	610,000	54,820
G15E	HRSD – VIP WWTP	VA0081281	750,000	121,822
G15E	JH Miles & Company	VA0003263	153,500	21,500
C07E	HRSD – Ches.-Elizabeth STP	VA0081264	1,100,000	108,674
	TOTALS		14,901,739	1,354,375

NOTES: (1) Waste load allocations for localities served by combined sewers are based on dry weather design flow capacity. During wet weather flow events the discharge shall achieve a TN concentration of 8.0 mg/l and a TP concentration of 1.0 mg/l.

(2) Waste load allocations are "net" loads, based on the portion of the nutrient discharge introduced by the facility's process waste streams, and not originating in raw water intake.

Statutory Authority

§ [62.1-44.15](#) of the Code of Virginia; 33 USC § 1313 of the federal Clean Water Act.

Historical Notes

Derived from Virginia Register Volume 19, Issue 14, eff. April 24, 2003; Errata, 19:20 VA.R. 2999 June 16, 2003; amended, Virginia Register Volume 20, Issue 24, eff. September 8, 2004; Volume 21, Issue 9, eff. February 9, 2005; Volume 21, Issue 17, eff. June 1, 2005; Volume 22, Issue 7, eff. January 11, 2006; Errata, 22:12 VA.R. 2064 February 20, 2006; amended, Virginia Register Volume 23, Issue 12, eff. May 21, 2007; Errata, 25:19 VA.R. 3464 May 25, 2009; amended, Virginia Register Volume 25, Issue 20, eff. July 8, 2009; Volume 27, Issue 12. eff. March 16, 2011.

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