

2023 Nutrient Load Analysis

§ 62.1-44.19:18.D. of the State Water Control Law requires that by April 1st of each year, the Virginia Department of Environmental Quality (DEQ) prepare a report containing the annual mass loads of Total Nitrogen and Total Phosphorus discharged by each permitted facility, the number of point source Nitrogen and Phosphorus credits generated or required by each facility in the previous calendar year, and to the extent there are insufficient point source credits available for exchange to provide for full compliance by every permittee, the number of credits to be purchased from the Nutrient Offset Fund.

Actual discharged and delivered loads are included for each discharger. The degree to which each discharge was over or under the wasteload allocation is listed in the next to last column of each spreadsheet. The bottom figure in that same column indicates the degree to which the basin as a whole was over or under the basin-wide delivered wasteload allocation. The final column reflects credits which are held by the Nutrient Offset Fund in accordance with Part I.J.2.e. of the watershed general permit.

Sufficient Nitrogen and Phosphorus credits are available in every basin. With adequate credits available from permitted facilities, no credits will be made available by the Nutrient Offset Fund. Permitted facilities must complete and report all trades to DEQ by June 1, 2024. DEQ will publish notice of all credit exchanges for the previous calendar year by July 1, 2024.

2023 Potomac Total Nitrogen Discharges

| Facility | Individual VPDES Permit No. | General Permit Registration No. | General Permit Outfall No. | Design Flow (MGD) | Discharged TN Wasteload Allocation (lbs/yr) | 2023 TN Delivery Factor | 2023 Delivered TN Wasteload Allocation (lbs/yr) | 2023 Discharged TN (lbs) | 2023 Delivered TN (lbs) | 2023 Delivered TN Exceedance/ (Credit) (lbs) | Nutrient Offset Fund Held Credits (lbs) |
|--|-----------------------------|---------------------------------|----------------------------|-------------------|---|-------------------------|---|--------------------------|-------------------------|--|---|
| Stoney Creek Sanitary District STP | VA0028380 | VAN010015 | 500 | 0.60 | 8,259 | 0.25 | 2,065 | 8,870 | 2,218 | 153 | -- |
| Fauquier Co Water & Sanitation Auth - Vint Hill WWTF | VA0020460 | VAN010020 | 500 | 0.95 | 11,573 | 0.05 | 579 | 1,850 | 93 | -487 | -- |
| VPGC LLC - Hinton | VA0002313 | VAN010009 | 500 | 1.50 | 27,410 | 0.08 | 2,193 | 18,728 | 1,498 | -695 | -- |
| Clarke County Sanitation Authority - Boyce STP | VA0085171 | VAN010107 | 500 | 0.099 | 2,848 | 0.52 | 1,481 | 763 | 397 | -1,084 | -- |
| Town of Mt. Jackson STP (Shenandoah County) | VA0026441 | VAN010012 | 500 | 0.70 | 8,528 | 0.25 | 2,132 | 2,263 | 566 | -1,566 | -- |
| Town of Strasburg STP (Shenandoah County) | VA0020311 | VAN010102 | 500 | 2.00 | 11,939 | 0.34 | 4,059 | 6,896 | 2,345 | -1,714 | -- |
| Town of Round Hill WWTP (Loudoun County) | VA0026212 | VAN010093 | 500 | 0.75 | 9,137 | 0.46 | 4,203 | 2,598 | 1,195 | -3,008 | -- |
| Massanutten Public Service Corp. STP | VA0024732 | VAN010039 | 500 | 1.50 | 18,273 | 0.22 | 4,020 | 4,459 | 981 | -3,039 | -- |
| Town of Berryville STP (Clarke County) | VA0020532 | VAN010040 | 500 | 0.70 | 8,528 | 0.52 | 4,435 | 2,562 | 1,332 | -3,103 | -- |
| Town of Broadway Regional WWTF (Rockingham Co) | VA0090263 | VAN010062 | 500 | 2.92 | 29,481 | 0.12 | 3,538 | 3,559 | 427 | -3,111 | -- |
| City of Waynesboro STP | VA0025151 | VAN010098 | 500 | 4.00 | 48,729 | 0.08 | 3,898 | 5,617 | 449 | -3,449 | -- |
| Town of Middletown STP (Frederick County) | VA0020982 | VAN010121 | 500 | 0.40 | 14,238 | 0.34 | 4,841 | 3,666 | 1,246 | -3,595 | -- |
| Town of Middleburg (Loudoun County) | VA0024775 | VAN010120 | 500 | 0.25 | 7,973 | 0.46 | 3,668 | 71 | 33 | -3,635 | -- |
| King George Co Service Auth-Potomac River Aggregate | -- | VAN010060 | 500 | -- | -- | -- | 12,060 | | 7,847 | -4,213 | -- |
| Dahlgren District WWTP | VA0026514 | | 501 | 0.97 | 9,137 | 1.00 | | 3,774 | | | |
| Purkins Corner WWTP | VA0070106 | | 502 | 0.12 | 1,096 | 1.00 | | 3,113 | | | |
| Fairview Beach STP | VA0092134 | | 503 | 0.20 | 1,827 | 1.00 | | 960 | | | |
| Town of Luray WWTP (Page County) | VA0062642 | VAN010006 | 500 | 1.60 | 19,492 | 0.33 | 6,432 | 6,474 | 2,136 | -4,296 | -- |
| US Naval Support Facility Dahlgren WWTF | VA0021067 | VAN010041 | 500 | 0.72 | 6,578 | 1.00 | 6,578 | 2,196 | 2,196 | -4,382 | -- |
| Georges Chicken LLC | VA0077402 | VAN010011 | 500 | 1.70 | 31,065 | 0.25 | 7,766 | 9,762 | 2,441 | -5,326 | -- |
| Town of Woodstock STP (Shenandoah County) | VA0026468 | VAN010094 | 500 | 2.00 | 24,364 | 0.25 | 6,091 | 2,307 | 577 | -5,514 | -- |
| The LYCRA Company LLC - Waynesboro Plant | VA0002160 | VAN010050 | 500 | 1.44 | 78,941 | 0.08 | 6,315 | 2,583 | 207 | -6,108 | -- |
| Molson Coors Beverage Co USA LLC | VA0073245 | VAN010096 | 500 | 4.50 | 54,820 | 0.22 | 12,060 | 25,460 | 5,601 | -6,459 | -- |

2023 Potomac Total Nitrogen Discharges

| Facility | Individual VPDES Permit No. | General Permit Registration No. | General Permit Outfall No. | Design Flow (MGD) | Discharged TN Wasteload Allocation (lbs/yr) | 2023 TN Delivery Factor | 2023 Delivered TN Wasteload Allocation (lbs/yr) | 2023 Discharged TN (lbs) | 2023 Delivered TN (lbs) | 2023 Delivered TN Exceedance/ (Credit) (lbs) | Nutrient Offset Fund Held Credits (lbs) |
|---|-----------------------------------|---------------------------------------|-------------------------------|----------------------|--|----------------------------|--|--------------------------------|----------------------------|---|---|
| Augusta Co. Service Authority Aggregate | -- | VAN010092 | 500 | -- | -- | -- | 12,889 | | 5,593 | -7,296 | -- |
| Fishersville STP | VA0025291 | | 501 | 4.00 | 48,729 | 0.06 | | 8,888 | | | |
| Stuarts Draft WWT | VA0066877 | | 502 | 4.00 | 48,729 | 0.03 | | 2,450 | | | |
| Middle River Regional STP | VA0064793 | | 503 | 6.80 | 82,839 | 0.06 | | 19,284 | | | |
| Weyers Cave STP | VA0022349 | | 504 | 0.50 | 6,091 | 0.15 | | 15,994 | | | |
| Greenville STP | VA0090417 | | 505 | 0.25 | 14,238 | 0.06 | | 5,587 | | | |
| Mt. Sidney STP | VA0022322 | | 506 | 0.15 | 8,543 | 0.06 | | 9,013 | | | |
| Vesper View STP | VA0067962 | | 507 | 0.10 | 5,695 | 0.11 | | 4,538 | | | |
| Harriston STP | VA0027901 | | 508 | 0.10 | 5,695 | 0.11 | | 497 | | | |
| Town of Colonial Beach STP (Westmoreland County) | VA0026409 | VAN010099 | 500 | 2.00 | 18,273 | 1.00 | 18,273 | 10,908 | 10,908 | -7,365 | -- |
| Purcellville-Basham Simms WWTF | VA0022802 | VAN010016 | 500 | 1.50 | 18,273 | 0.46 | 8,406 | 1,512 | 696 | -7,710 | -- |
| Town of Lovettsville (Loudoun County) | VA0023183 | VAN010129 | 500 | 0.38 | 14,238 | 0.73 | 10,394 | 3,207 | 2,341 | -8,053 | -- |
| Merck Sharp & Dohme Corp. (Outfall 101) | VA0002178 | VAN010007 | 500 | 1.20 | 43,835 | 0.22 | 9,644 | 3,134 | 689 | -8,955 | -- |
| Town of Front Royal STP (Warren County) | VA0062812 | VAN010010 | 500 | 5.30 | 48,729 | 0.50 | 24,365 | 23,534 | 11,767 | -12,598 | -- |
| US Marine Corps - Quantico Mainside WWTF | VA0028363 | VAN010043 | 500 | 2.20 | 20,101 | 1.00 | 20,101 | 7,243 | 7,243 | -12,858 | -- |
| Harrisonburg-Rockingham RSA-North River WWTF | VA0060640 | VAN010042 | 500 | 23.0 | 260,226 | 0.14 | 36,432 | 126,439 | 17,701 | -18,731 | -- |
| Frederick-Winchester Service Authority Aggregate | -- | VAN010057 | 500 | -- | -- | -- | 38,380 | | 13,922 | -24,458 | -- |
| Opequon Water Reclamation Facility | VA0065552 | | 501 | 12.60 | 121,851 | 0.21 | | 52,214 | | | |
| Parkins Mills WWTP | VA0075191 | | 502 | 5.00 | 60,911 | 0.21 | | 14,079 | | | |
| Upper Occoquan Service Authority - Centreville | VA0024988 | VAN010019 | 500 | 54.00 | 1,315,682 | 0.23 | 302,607 | 1,196,166 | 275,118 | -27,489 | -- |
| Stafford County - Aquia WWTP | VA0060968 | VAN010023 | 500 | 10.00 | 73,093 | 1.00 | 73,093 | 31,748 | 31,748 | -41,345 | -- |
| Virginia American Water - Aggregate | -- | VAN010058 | 500 | -- | -- | -- | 84,058 | | 41,338 | -42,720 | -- |
| Prince William Wastewater District Section #1 Plant | VA0024724 | | 501 | 4.60 | 42,029 | 1.00 | | 20,745 | | | |
| Prince William Wastewater District Section #8 Plant | VA0024678 | | 502 | 4.60 | 42,029 | 1.00 | | 20,593 | | | |
| Town of Leesburg WPCF (Loudoun County) | VA0092282 | VAN010061 | 500 | 10.00 | 119,719 | 0.64 | 76,620 | 23,862 | 15,272 | -61,348 | 19,494 |
| Loudoun Co Sanitation Authority - Broad Run WRF | VA0091383 | VAN010017 | 500 | 11.00 | 134,005 | 0.82 | 109,884 | 56,150 | 46,043 | -63,841 | -- |
| Prince William Co Service Auth - H.L. Mooney WWTF | VA0025101 | VAN010018 | 500 | 24.00 | 219,280 | 1.00 | 219,280 | 114,961 | 114,961 | -104,319 | -- |
| Arlington County WPCF | VA0025143 | VAN010021 | 500 | 40.00 | 365,284 | 1.00 | 365,284 | 177,467 | 177,467 | -187,817 | -- |
| Alexandria Renew Enterprises WWTP | VA0025160 | VAN010059 | 500 | 54.00 | 493,381 | 1.00 | 493,381 | 288,744 | 288,744 | -204,637 | -- |
| Fairfax County - Noman-Cole PCF | VA0025364 | VAN010022 | 500 | 67.00 | 612,158 | 1.00 | 612,158 | 316,465 | 316,465 | -295,693 | -- |
| Potomac River Basin Totals | | | | | | | 2,613,663 | 2,673,953 | 1,411,799 | -1,201,864 | 19,494 |

2023 Potomac Total Phosphorus Discharges

| Facility | Individual VPDES Permit No. | General Permit Registration No. | General Permit Outfall No. | Design Flow (MGD) | Discharged TP Wasteload Allocation (lbs/yr) | 2023 TP Delivery Factor | 2023 Delivered TP Wasteload Allocation (lbs/yr) | 2023 Discharged TP (lbs) | 2023 Delivered TP (lbs) | 2023 Delivered TP Exceedance/ (Credit) (lbs) | Nutrient Offset Fund Held Credits (lbs) |
|--|-----------------------------|---------------------------------|----------------------------|-------------------|---|-------------------------|---|--------------------------|-------------------------|--|---|
| Merck Sharp & Dohme Corp. (Outfall 101) | VA0002178 | VAN010007 | 500 | 1.20 | 4,384 | 0.47 | 2,060 | 9,599 | 4,512 | 2,452 | -- |
| Stoney Creek Sanitary District STP | VA0028380 | VAN010015 | 500 | 0.60 | 667 | 0.47 | 313 | 1,371 | 644 | 331 | -- |
| Fauquier Co Water & Sanitation Auth - Vint Hill WWTF | VA0020460 | VAN010020 | 500 | 0.95 | 868 | 0.17 | 148 | 230 | 39 | -109 | -- |
| Town of Round Hill WWTP (Loudoun County) | VA0026212 | VAN010093 | 500 | 0.75 | 685 | 0.47 | 322 | 363 | 171 | -151 | -- |
| Clarke County Sanitation Authority - Boyce STP | VA0085171 | VAN010107 | 500 | 0.099 | 381 | 0.47 | 179 | 26 | 12 | -167 | -- |
| Town of Mt. Jackson STP (Shenandoah County) | VA0026441 | VAN010012 | 500 | 0.70 | 640 | 0.47 | 301 | 159 | 75 | -226 | -- |
| VPGC LLC - Hinton | VA0002313 | VAN010009 | 500 | 1.50 | 1,371 | 0.47 | 644 | 852 | 400 | -244 | -- |
| Town of Berryville STP (Clarke County) | VA0020532 | VAN010040 | 500 | 0.70 | 640 | 0.47 | 301 | 98 | 46 | -255 | -- |
| Town of Strasburg STP (Shenandoah County) | VA0020311 | VAN010102 | 500 | 2.00 | 895 | 0.47 | 421 | 322 | 151 | -270 | -- |
| Town of Luray STP (Page County) | VA0062642 | VAN010006 | 500 | 1.60 | 1,462 | 0.47 | 687 | 824 | 387 | -300 | -- |
| Purcellville-Basham Simms WWTF | VA0022802 | VAN010016 | 500 | 1.50 | 1,371 | 0.47 | 644 | 446 | 210 | -434 | -- |
| Town of Middleburg (Loudoun County) | VA0024775 | VAN010120 | 500 | 0.25 | 1,066 | 0.47 | 501 | 123 | 58 | -443 | -- |
| The LYCRA Company LLC - Waynesboro Plant | VA0002160 | VAN010050 | 500 | 1.44 | 1,009 | 0.47 | 474 | 52 | 24 | -450 | -- |
| Molson Coors Beverage Co USA LLC | VA0073245 | VAN010096 | 500 | 4.50 | 4,112 | 0.47 | 1,933 | 3,150 | 1,481 | -453 | -- |
| US Naval Support Facility Dahlgren WWTF | VA0021067 | VAN010041 | 500 | 0.72 | 658 | 1.00 | 658 | 196 | 196 | -462 | -- |
| Massanutten Public Service Corp. STP | VA0024732 | VAN010039 | 500 | 1.50 | 1,371 | 0.47 | 644 | 182 | 86 | -558 | -- |
| Georges Chicken LLC | VA0077402 | VAN010011 | 500 | 1.70 | 1,553 | 0.47 | 730 | 186 | 87 | -643 | -- |
| Town of Lovettsville (Loudoun County) | VA0023183 | VAN010129 | 500 | 0.375 | 1,903 | 0.47 | 894 | 487 | 229 | -665 | -- |
| Town of Middletown STP (Frederick County) | VA0020982 | VAN010121 | 500 | 0.40 | 1,903 | 0.47 | 894 | 239 | 112 | -782 | -- |
| Town of Woodstock STP (Shenandoah County) | VA0026468 | VAN010094 | 500 | 2.00 | 1,827 | 0.47 | 859 | 108 | 51 | -808 | -- |
| King George Co Service Auth-Potomac River Aggregate | -- | VAN010060 | 500 | -- | -- | -- | 1,207 | | 330 | -877 | -- |
| Dahlgren District WWTP | VA0026514 | | 501 | 1.00 | 914 | 1.00 | | 213 | | | |
| Purkins Corner WWTP | VA0070106 | | 502 | 0.12 | 110 | 1.00 | | 77 | | | |
| Fairview Beach STP | VA0092134 | | 503 | 0.20 | 183 | 1.00 | | 40 | | | |

2023 Potomac Total Phosphorus Discharges

| Facility | Individual VPDES Permit No. | General Permit Registration No. | General Permit Outfall No. | Design Flow (MGD) | Discharged TP Wasteload Allocation (lbs/yr) | 2023 TP Delivery Factor | 2023 Delivered TP Wasteload Allocation (lbs/yr) | 2023 Discharged TP (lbs) | 2023 Delivered TP (lbs) | 2023 Delivered TP Exceedance/ (Credit) (lbs) | Nutrient Offset Fund Held Credits (lbs) |
|---|-----------------------------|---------------------------------|----------------------------|-------------------|---|-------------------------|---|--------------------------|-------------------------|--|---|
| Town of Broadway Regional WWTF (Rockingham Co) | VA0090263 | VAN010062 | 500 | 2.92 | 2,211 | 0.47 | 1,039 | 265 | 125 | -914 | -- |
| US Marine Corps - Quantico Mainside WWTF | VA0028363 | VAN010043 | 500 | 2.20 | 1,206 | 1.00 | 1,206 | 143 | 143 | -1,063 | -- |
| Town of Front Royal STP (Warren County) | VA0062812 | VAN010010 | 500 | 5.30 | 3,655 | 0.47 | 1,718 | 1,143 | 537 | -1,181 | -- |
| Town of Colonial Beach STP (Westmoreland County) | VA0026409 | VAN010099 | 500 | 2.00 | 1,827 | 1.00 | 1,827 | 611 | 611 | -1,216 | -- |
| Loudoun Co Sanitation Authority - Broad Run WRF | VA0091383 | VAN010017 | 500 | 11.00 | 3,350 | 0.47 | 1,575 | 760 | 357 | -1,218 | -- |
| City of Waynesboro STP | VA0025151 | VAN010098 | 500 | 6.00 | 3,655 | 0.47 | 1,718 | 891 | 419 | -1,299 | -- |
| Town of Leesburg WPCF (Loudoun County) | VA0092282 | VAN010061 | 500 | 10.00 | 8,413 | 0.47 | 3,954 | 1,963 | 923 | -3,032 | 1,074 |
| Stafford County - Aquia WWTP | VA0060968 | VAN010023 | 500 | 10.00 | 4,386 | 1.00 | 4,386 | 1,078 | 1,078 | -3,308 | -- |
| Upper Occoquan Service Authority - Centreville | VA0024988 | VAN010019 | 500 | 54.00 | 16,446 | 0.31 | 5,098 | 5,086 | 1,577 | -3,521 | -- |
| Virginia American Water - Aggregate | -- | VAN010058 | 500 | -- | -- | -- | 5,044 | | 1,414 | -3,630 | -- |
| Prince William Wastewater District Section #1 Plant | VA0024724 | | 501 | 4.60 | 2,522 | 1.00 | | 650 | | | |
| Prince William Wastewater District Section #8 Plant | VA0024678 | | 502 | 4.60 | 2,522 | 1.00 | | 764 | | | |
| Frederick-Winchester Service Authority Aggregate | -- | VAN010057 | 500 | -- | -- | -- | 7,558 | | 2,335 | -5,223 | -- |
| Opequon Water Reclamation Facility | VA0065552 | | 501 | 12.60 | 11,512 | 0.47 | | 3,340 | | | |
| Parkins Mills WWTP | VA0075191 | | 502 | 5.00 | 4,568 | 0.47 | | 1,629 | | | |
| Augusta Co. Service Authority Aggregate | -- | VAN010092 | 500 | -- | -- | -- | 8,717 | | 3,308 | -5,409 | -- |
| Fishersville STP | VA0025291 | | 501 | 4.00 | 3,655 | 0.47 | | 668 | | | |
| Stuarts Draft WWT | VA0066877 | | 502 | 4.00 | 3,655 | 0.47 | | 257 | | | |
| Middle River Regional STP | VA0064793 | | 503 | 6.80 | 6,213 | 0.47 | | 597 | | | |
| Weyers Cave STP | VA0022349 | | 504 | 0.50 | 457 | 0.47 | | 2,254 | | | |
| Greenville STP | VA0090417 | | 505 | 0.25 | 1,903 | 0.47 | | 1,073 | | | |
| Mt. Sidney STP | VA0022322 | | 506 | 0.15 | 1,142 | 0.47 | | 1,076 | | | |
| Vesper View STP | VA0067962 | | 507 | 0.10 | 761 | 0.47 | | 868 | | | |
| Harriston STP | VA0027901 | | 508 | 0.10 | 761 | 0.47 | | 245 | | | |
| Harrisonburg-Rockingham RSA-North River WWTF | VA0060640 | VAN010042 | 500 | 23.0 | 19,574 | 0.47 | 9,200 | 7,931 | 3,728 | -5,472 | -- |
| Prince William Co Service Auth - H.L. Mooney WWTF | VA0025101 | VAN010018 | 500 | 24.00 | 13,157 | 1.00 | 13,157 | 5,285 | 5,285 | -7,872 | -- |
| Arlington County WPCF | VA0025143 | VAN010021 | 500 | 40.00 | 21,925 | 1.00 | 21,925 | 6,034 | 6,034 | -15,891 | -- |
| Alexandria Renew Enterprises WWTP | VA0025160 | VAN010059 | 500 | 54.00 | 29,603 | 1.00 | 29,603 | 10,085 | 10,085 | -19,518 | -- |
| Fairfax County - Noman-Cole PCF | VA0025364 | VAN010022 | 500 | 67.00 | 36,729 | 1.00 | 36,729 | 5,127 | 5,127 | -31,602 | -- |
| Potomac River Basin Totals | | | | | | | 169,268 | 79,166 | 52,386 | -116,882 | 1,074 |

2023 Rappahannock Total Nitrogen Discharges

| Facility | Individual VPDES Permit No. | General Permit Registration No. | General Permit Outfall No. | Design Flow (MGD) | Discharged TN Wasteload Allocation (lbs/yr) | 2023 TN Delivery Factor | 2023 Delivered TN Wasteload Allocation (lbs/yr) | 2023 Discharged TN (lbs) | 2023 Delivered TN (lbs) | 2023 Delivered TN Exceedance/ (Credit) (lbs) | Nutrient Offset Fund Held Credits (lbs) |
|--|-----------------------------|---------------------------------|----------------------------|-------------------|---|-------------------------|---|--------------------------|-------------------------|--|---|
| City of Fredericksburg WWTF | VA0025127 | VAN020095 | 500 | 4.50 | 54,820 | 1.00 | 54,820 | 75,860 | 75,860 | 21,040 | -- |
| Hampton Roads Sanitation District -Urbanna WWTP | VA0026263 | VAN020034 | 500 | 0.10 | 1,218 | 1.00 | 1,218 | 2,608 | 2,608 | 1,390 | -- |
| Childrens Bible Ministries - Camp Red Arrow WWTP | VA0092452 | VAN020162 | 500 | 0.0055 | 204 | 0.49 | 100 | 43 | 21 | -79 | -- |
| Town of Washington - Rush River WWTP | VA0091651 | VAN020108 | 500 | 0.06 | 1,462 | 0.22 | 322 | 94 | 21 | -301 | -- |
| Westmoreland Co - Montross-Westmoreland WWTP | VA0072729 | VAN020032 | 500 | 0.13 | 1,584 | 0.63 | 998 | 974 | 614 | -384 | -- |
| Greene County - Rapidan WWTP | VA0090948 | VAN020026 | 500 | 0.60 | 7,309 | 0.21 | 1,535 | 5,415 | 1,137 | -398 | -- |
| Town of Warrenton WWTP (Fauquier County) | VA0021172 | VAN020028 | 500 | 2.50 | 30,456 | 0.19 | 5,787 | 26,575 | 5,049 | -738 | -- |
| Northumberland Co - Reedville Sanitary District WWTP | VA0060712 | VAN020101 | 500 | 0.20 | 2,436 | 1.00 | 2,436 | 1,341 | 1,341 | -1,095 | -- |
| Aqua Virginia Inc. - Presidential Lakes Section 14 STP | VA0086720 | VAN020109 | 500 | 0.07 | 1,994 | 1.00 | 1,994 | 573 | 573 | -1,421 | -- |
| American Water Oper & Maint Inc -Fort A.P. Hill WWTP | VA0032034 | VAN020035 | 500 | 0.53 | 6,457 | 1.00 | 6,457 | 4,591 | 4,591 | -1,866 | -- |
| Town of Warsaw WWTP (Richmond County) | VA0026891 | VAN020036 | 500 | 0.30 | 3,655 | 1.00 | 3,655 | 1,578 | 1,578 | -2,077 | -- |
| VDOC Haynesville Correctional Center WWTP | VA0023469 | VAN020044 | 500 | 0.23 | 2,802 | 1.00 | 2,802 | 701 | 701 | -2,101 | 634 |
| Culpeper County Nutrient Aggregate | -- | VAN020054 | 500 | -- | -- | -- | 2,781 | | 115 | -2,666 | -- |
| Clevengers Village WWTP | VA0080527 | | 505 | 0.90 | 10,964 | 0.19 | | 252 | | | |
| Airpark WWTP | VA0068586 | | 506 | 0.025 | 1,424 | 0.49 | | 137 | | | |
| King George County Service Authority – Aggregate | -- | VAN020056 | 500 | -- | -- | -- | 7,797 | | 3,431 | -4,366 | 1,523 |
| Oakland Park STP | VA0086789 | | 501 | 0.14 | 1,706 | 1.00 | | 1,749 | | | |
| Hopyard Farms WWTF | VA0089338 | | 502 | 0.50 | 6,091 | 1.00 | | 1,682 | | | |
| Town of Kilmarnock WWTP (Lancaster County) | VA0020788 | VAN020038 | 500 | 0.50 | 6,091 | 1.00 | 6,091 | 1,510 | 1,510 | -4,581 | -- |
| Rapidan Service Authority - Wilderness WWTP | VA0083411 | VAN020029 | 500 | 2.00 | 15,228 | 0.45 | 6,853 | 4,055 | 1,825 | -5,028 | -- |
| Town of Orange STP (Orange County) | VA0021385 | VAN020025 | 500 | 3.00 | 36,547 | 0.21 | 7,675 | 5,201 | 1,092 | -6,583 | -- |
| Town of Tappahannock WWTP (Essex County) | VA0071471 | VAN020033 | 500 | 0.80 | 9,746 | 1.00 | 9,746 | 2,359 | 2,359 | -7,387 | -- |
| Fauquier County WSA Nutrient Aggregate | -- | VAN020053 | 500 | -- | -- | -- | 13,419 | | 3,856 | -9,563 | -- |
| Remington WWTP | VA0076805 | | 501 | 2.00 | 24,364 | 0.49 | | 6,934 | | | |
| Marshall WWTP | VA0031763 | | 502 | 0.64 | 7,797 | 0.19 | | 2,411 | | | |
| Omega Protein Inc. | VA0003867 | VAN020037 | 500 | 3.21 | 21,113 | 1.00 | 21,113 | 2,354 | 2,354 | -18,759 | -- |
| Town of Culpeper WPCF (Culpeper County) | VA0061590 | VAN020024 | 500 | 6.00 | 73,093 | 0.49 | 35,816 | 13,857 | 6,790 | -29,026 | -- |
| Spotsylvania County Nutrient Aggregate | -- | VAN020055 | 500 | -- | -- | -- | 163,242 | | 108,327 | -54,915 | -- |
| FMC WWTF | VA0068110 | | 501 | 4.00 | 48,737 | 1.00 | | 48,837 | | | |
| Massaponax WWTF | VA0025658 | | 502 | 9.40 | 114,505 | 1.00 | | 59,490 | | | |
| Stafford County - Little Falls Run WWTF | VA0076392 | VAN020031 | 500 | 8.00 | 97,458 | 1.00 | 97,458 | 25,046 | 25,046 | -72,412 | -- |
| Rappahannock River Basin Totals | | | | | | | 454,115 | 296,227 | 250,798 | -203,317 | 2,157 |

2023 Rappahannock Total Phosphorus Discharges

| Facility | Individual VPDES Permit No. | General Permit Registration No. | General Permit Outfall No. | Design Flow (MGD) | Discharged TP Wasteload Allocation (lbs/yr) | 2023 TP Delivery Factor | 2023 Delivered TP Wasteload Allocation (lbs/yr) | 2023 Discharged TP (lbs) | 2023 Delivered TP (lbs) | 2023 Delivered TP Exceedance/ (Credit) (lbs) | Nutrient Offset Fund Held Credits (lbs) |
|--|-----------------------------|---------------------------------|----------------------------|-------------------|---|-------------------------|---|--------------------------|-------------------------|--|---|
| Greene County - Rapidan WWTP | VA0090948 | VAN020026 | 500 | 0.60 | 548 | 0.75 | 411 | 1,739 | 1,304 | 893 | -- |
| Hampton Roads Sanitation District -Urbanna WWTP | VA0026263 | VAN020034 | 500 | 0.10 | 91 | 1.00 | 91 | 794 | 794 | 703 | -- |
| Westmoreland Co - Montross-Westmoreland WWTP | VA0072729 | VAN020032 | 500 | 0.13 | 119 | 0.88 | 105 | 116 | 102 | -3 | -- |
| Childrens Bible Ministries - Camp Red Arrow WWTP | VA0092452 | VAN020162 | 500 | 0.0055 | 27 | 0.75 | 20 | 6 | 4 | -16 | -- |
| Northumberland Co - Reedville Sanitary District WWTP | VA0060712 | VAN020101 | 500 | 0.20 | 183 | 1.00 | 183 | 30 | 30 | -153 | -- |
| VDOC Haynesville Correctional Center WWTP | VA0023469 | VAN020044 | 500 | 0.23 | 210 | 1.00 | 210 | 47 | 47 | -163 | 48 |
| Town of Washington - Rush River WWTP | VA0091651 | VAN020108 | 500 | 0.06 | 244 | 0.75 | 183 | 12 | 9 | -174 | -- |
| Aqua Virginia Inc. - Presidential Lakes Section 14 STP | VA0086720 | VAN020109 | 500 | 0.07 | 267 | 1.00 | 267 | 90 | 90 | -177 | -- |
| Town of Warsaw WWTP (Richmond County) | VA0026891 | VAN020036 | 500 | 0.30 | 274 | 1.00 | 274 | 61 | 61 | -213 | -- |
| Town of Kilmarnock WWTP (Lancaster County) | VA0020788 | VAN020038 | 500 | 0.50 | 457 | 1.00 | 457 | 130 | 130 | -327 | -- |
| American Water Oper & Maint Inc -Fort A.P. Hill WWTP | VA0032034 | VAN020035 | 500 | 0.53 | 484 | 1.00 | 484 | 18 | 18 | -466 | -- |
| King George County Service Authority – Aggregate | -- | VAN020056 | 500 | -- | -- | -- | 585 | | 116 | -469 | 114 |
| Oakland Park STP | VA0086789 | | 501 | 0.14 | 128 | 1.00 | | 36 | | | |
| Hopyard Farms WWTF | VA0089338 | | 502 | 0.50 | 457 | 1.00 | | 80 | | | |
| Rapidan Service Authority - Wilderness WWTP | VA0083411 | VAN020029 | 500 | 2.00 | 1,142 | 0.75 | 857 | 469 | 352 | -505 | -- |
| Town of Tappahannock WWTP (Essex County) | VA0071471 | VAN020033 | 500 | 0.80 | 731 | 1.00 | 731 | 33 | 33 | -698 | -- |
| Culpeper County Nutrient Aggregate | -- | VAN020054 | 500 | -- | -- | -- | 760 | | 6 | -754 | -- |
| Clevengers Village WWTP | VA0080527 | | 505 | 0.90 | 822 | 0.75 | | 7 | | | |
| Airpark WWTP | VA0068586 | | 506 | 0.025 | 190 | 0.75 | | 2 | | | |
| Town of Warrenton WWTP (Fauquier County) | VA0021172 | VAN020028 | 500 | 2.50 | 2,284 | 0.75 | 1,713 | 392 | 294 | -1,419 | -- |
| City of Fredericksburg WWTF | VA0025127 | VAN020095 | 500 | 4.50 | 4,112 | 1.00 | 4,112 | 2,690 | 2,690 | -1,422 | -- |
| Omega Protein Inc. | VA0003867 | VAN020037 | 500 | 3.21 | 1,571 | 1.00 | 1,571 | 57 | 57 | -1,514 | -- |
| Fauquier County WSA Nutrient Aggregate | -- | VAN020053 | 500 | -- | -- | -- | 1,809 | | 194 | -1,615 | -- |
| Remington WWTP | VA0076805 | | 501 | 2.00 | 1,827 | 0.75 | | 198 | | | |
| Marshall WWTP | VA0031763 | | 502 | 0.64 | 585 | 0.75 | | 61 | | | |
| Town of Orange STP (Orange County) | VA0021385 | VAN020025 | 500 | 3.00 | 2,741 | 0.75 | 2,056 | 101 | 76 | -1,980 | -- |
| Town of Culpeper WPCF (Culpeper County) | VA0061590 | VAN020024 | 500 | 6.00 | 5,483 | 0.75 | 4,112 | 560 | 420 | -3,692 | -- |
| Stafford County - Little Falls Run WWTF | VA0076392 | VAN020031 | 500 | 8.00 | 7,309 | 1.00 | 7,309 | 1,037 | 1,037 | -6,272 | -- |
| Spotsylvania County Nutrient Aggregate | -- | VAN020055 | 500 | -- | -- | -- | 12,060 | | 4,826 | -7,234 | -- |
| FMC WWTF | VA0068110 | | 501 | 4.00 | 3,655 | 1.00 | | 1,363 | | | |
| Massaponax WWTF | VA0025658 | | 502 | 9.40 | 8,588 | 1.00 | | 3,463 | | | |
| Rappahannock River Basin Totals | | | | | | | 40,360 | 13,591 | 12,690 | -27,670 | 162 |

2023 York Total Nitrogen Discharges

| Facility | Individual VPDES Permit No. | General Permit Registration No. | General Permit Outfall No. | Design Flow (MGD) | Discharged TN Wasteload Allocation (lbs/yr) | 2023 TN Delivery Factor | 2023 Delivered TN Wasteload Allocation (lbs/yr) | 2023 Discharged TN (lbs) | 2023 Delivered TN (lbs) | 2023 Delivered TN Exceedance/ (Credit) (lbs) | Nutrient Offset Fund Held Credits (lbs) | |
|---|-----------------------------|---------------------------------|----------------------------|-------------------|---|-------------------------|---|--------------------------|-------------------------|--|---|---------------|
| WestRock CP LLC - West Point | VA0003115 | VAN030049 | 500 | 23.00 | 259,177 | 1.00 | 259,177 | 284,530 | 284,530 | 25,353 | -- | |
| Leisure Capital Corp - Shenandoah Crossing STP ^[A] | VA0076678 | VAN030119 | 500 | 0.10 | 2,848 | 0.21 | 598 | 3,280 | 689 | 91 | -- | |
| Rapidan Service Authority - Gordonsville STP | VA0021105 | VAN030046 | 500 | 0.94 | 17,177 | 0.06 | 1,031 | 5,032 | 302 | -729 | 299 | |
| Aqua Virginia Inc. - Lake Land' Or WWTP | VA0060887 | VAN030110 | 500 | 0.22 | 5,695 | 0.65 | 3,702 | 2,421 | 1,574 | -2,128 | -- | |
| Caroline County Regional STP | VA0073504 | VAN030045 | 500 | 1.50 | 9,137 | 0.65 | 5,939 | 3,496 | 2,272 | -3,667 | -- | |
| Louisa County Water Authority Aggregate | -- | VAN030154 | 500 | -- | -- | -- | 5,980 | | 1,167 | -4,813 | -- | |
| Louisa Regional WWTP | VA0067954 | | 501 | 0.80 | 22,780 | 0.21 | | 4,488 | | | | |
| Zion Crossroads WWTP | VA0090743 | | 502 | 0.311 | 5,695 | 0.21 | | 1,071 | | | | |
| 819 Virginia LLC | VA0029521 | VAN030133 | 500 | 4.20 | 47,328 | 0.50 | 23,664 | 17,315 | 8,658 | -15,007 | -- | |
| New Kent County - Parham Landing WWTP | VA0088331 | VAN030048 | 500 | 2.00 | 36,547 | 1.00 | 36,547 | 3,977 | 3,977 | -32,570 | -- | |
| Hampton Roads Sanitation District - York R Aggregate | -- | VAN030052 | 500 | -- | -- | -- | 288,315 | | 217,634 | -70,681 | -- | |
| York River STP | VA0081311 | | 501 | 15.00 | 275,927 | 1.00 | | 196,721 | | | | |
| West Point STP | VA0075434 | | 502 | 0.60 | 10,964 | 1.00 | | 20,416 | | | | |
| King William STP | VA0088102 | | 504 | 0.10 | 1,424 | 1.00 | | 497 | | | | |
| Hanover County Aggregate | -- | VAN030051 | 500 | -- | -- | -- | 211,972 | | 93,936 | -118,036 | 54,827 | |
| Ashland WWTP | VA0024899 | | 501 | 2.00 | 36,547 | 0.55 | | 26,023 | | | | |
| Doswell WWTP | VA0029521 | | 502 | 1.00 | 18,273 | 0.50 | | 13,564 | | | | |
| Totopotomoy WWTP | VA0089915 | | 503 | 10.00 | 182,734 | 1.00 | | 72,841 | | | | |
| | | | | | | | York River Basin Totals | 836,925 | 655,672 | 614,738 | -222,187 | 55,126 |

Footnotes

^[A] Leisure Capital Corp's 2023 calendar year discharged load based on sum of reported monthly loads.

2023 York Total Phosphorus Discharges

| Facility | Individual VPDES Permit No. | General Permit Registration No. | General Permit Outfall No. | Design Flow (MGD) | Discharged TP Wasteload Allocation (lbs/yr) | 2023 TP Delivery Factor | 2023 Delivered TP Wasteload Allocation (lbs/yr) | 2023 Discharged TP (lbs) | 2023 Delivered TP (lbs) | 2023 Delivered TP Exceedance/ (Credit) (lbs) | Nutrient Offset Fund Held Credits (lbs) |
|---|-----------------------------|---------------------------------|----------------------------|-------------------|---|-------------------------|---|--------------------------|-------------------------|--|---|
| Rapidan Service Authority - Gordonsville STP | VA0021105 | VAN030046 | 500 | 0.94 | 1,145 | 0.53 | 607 | 1,439 | 763 | 156 | -- |
| Leisure Capital Corp - Shenandoah Crossing STP ^[A] | VA0076678 | VAN030119 | 500 | 0.10 | 381 | 0.65 | 210 | 250 | 163 | -48 | -- |
| Caroline County Regional STP | VA0073504 | VAN030045 | 500 | 1.50 | 609 | 0.72 | 438 | 187 | 135 | -303 | -- |
| Aqua Virginia Inc. - Lake Land' Or WWTP | VA0060887 | VAN030110 | 500 | 0.22 | 761 | 0.72 | 548 | 211 | 152 | -396 | -- |
| New Kent County - Parham Landing WWTP | VA0088331 | VAN030048 | 500 | 2.00 | 2,436 | 1.00 | 2,436 | 349 | 349 | -2,087 | -- |
| Louisa County Water Authority Aggregate | -- | VAN030154 | 500 | -- | -- | -- | 2,375 | | 108 | -2,267 | -- |
| Louisa Regional WWTP | VA0067954 | | 501 | 0.80 | 3,045 | 0.65 | | 128 | | | |
| Zion Crossroads WWTP | VA0090743 | | 502 | 0.311 | 609 | 0.65 | | 38 | | | |
| 819 Virginia LLC | VA0029521 | VAN030133 | 500 | 4.20 | 10,233 | 0.65 | 6,651 | 1,924 | 1,251 | -5,400 | -- |
| Hampton Roads Sanitation District - York R Aggregate | -- | VAN030052 | 500 | -- | -- | -- | 19,316 | | 13,393 | -5,923 | -- |
| York River STP | VA0081311 | | 501 | 15.00 | 18,395 | 1.00 | | 9,814 | | | |
| West Point STP | VA0075434 | | 502 | 0.60 | 731 | 1.00 | | 3,567 | | | |
| King William STP | VA0088102 | | 504 | 0.10 | 190 | 1.00 | | 12 | | | |
| Hanover County Aggregate | -- | VAN030051 | 500 | -- | -- | -- | 14,557 | | 8,625 | -5,932 | 3,655 |
| Ashland WWTP | VA0024899 | | 501 | 2.00 | 2,436 | 0.65 | | 6,388 | | | |
| Doswell WWTP | VA0029521 | | 502 | 1.00 | 1,218 | 0.65 | | 1,104 | | | |
| Totopotomoy WWTP | VA0089915 | | 503 | 10.00 | 12,182 | 1.00 | | 3,755 | | | |
| WestRock CP LLC - West Point | VA0003115 | VAN030049 | 500 | 23.00 | 56,038 | 1.00 | 56,038 | 34,571 | 34,571 | -21,467 | -- |
| York River Basin Totals | | | | | | | 103,176 | 63,737 | 59,508 | -43,668 | 3,655 |

Footnotes

^[A] Leisure Capital Corp's 2023 calendar year discharged load based on sum of reported monthly loads.

2023 James Total Nitrogen Discharges

| Facility | Individual VPDES Permit No. | General Permit Registration No. | General Permit Outfall No. | Design Flow (MGD) | Discharged TN Wasteload Allocation (lbs/yr) | 2023 TN Delivery Factor | 2023 Delivered TN Wasteload Allocation (lbs/yr) | 2023 Discharged TN (lbs) | 2023 Delivered TN (lbs) | 2023 Delivered TN Exceedance/ (Credit) (lbs) | Nutrient Offset Fund Held Credits (lbs) |
|---|-----------------------------|---------------------------------|----------------------------|-------------------|---|-------------------------|---|--------------------------|-------------------------|--|---|
| Upper/Middle James | | | | | | | | | | | |
| GP Big Island LLC | VA0003026 | VAN040066 | 500 | 10.87 | 122,489 | 0.60 | 73,493 | 237,132 | 142,279 | 68,786 | -- |
| South Central Wastewater Authority WWTF | VA0025437 | VAN040087 | 500 | 23.00 | 350,239 | 1.00 | 350,239 | 376,328 | 376,328 | 26,089 | -- |
| Greif Packaging LLC | VA0006408 | VAN040073 | 500 | 6.50 | 73,246 | 0.64 | 46,877 | 82,248 | 52,639 | 5,762 | -- |
| Buena Vista Public Service Authority-Buena Vista STP | VA0020991 | VAN040063 | 500 | 2.25 | 41,115 | 0.55 | 22,613 | 50,324 | 27,678 | 5,065 | -- |
| City of Covington STP | VA0025542 | VAN040065 | 500 | 3.00 | 54,820 | 0.21 | 11,512 | 61,322 | 12,878 | 1,366 | -- |
| VA Dept of Corrections - Augusta Correctional Center | VA0091821 | VAN040118 | 500 | 0.44 | 4,020 | 0.20 | 804 | 1,556 | 311 | -493 | -- |
| Aqua Virginia Aggregate | | VAN040178 | 500 | -- | -- | -- | 12,574 | | 11,176 | -1,398 | -- |
| Aqua Virginia Inc - Lake Monticello STP | VA0024945 | | 501 | 0.995 | 14,164 | 0.64 | | 15,235 | | | |
| Aqua Virginia Inc - Manakin Farms WWTP | VA0027910 | | 502 | 0.100 | 3,987 | 0.88 | | 1,620 | | | |
| Town of Crewe WWTP (Nottoway County) | VA0020303 | VAN040100 | 500 | 0.50 | 9,137 | 0.25 | 2,284 | 1,757 | 439 | -1,845 | -- |
| Tyson Foods Inc - Glen Allen | VA0004031 | VAN040089 | 500 | 1.07 | 19,552 | 0.18 | 3,519 | 3,882 | 699 | -2,820 | -- |
| Buckingham County / Dillwyn WWTP | VA0027294 | VAN040104 | 500 | 0.20 | 5,695 | 0.65 | 3,702 | 458 | 298 | -3,404 | -- |
| Town of Amherst - Amherst-Rutledge Creek WWTP | VA0031321 | VAN040071 | 500 | 0.60 | 10,964 | 0.43 | 4,715 | 1,904 | 819 | -3,896 | -- |
| WestRock Virginia LLC - Covington | VA0003646 | VAN040070 | 500 | 35.00 | 394,400 | 0.11 | 43,384 | 358,884 | 39,477 | -3,907 | -- |
| VA Dept of Corrections - Powhatan Correctional Center | VA0020699 | VAN040077 | 500 | 0.47 | 8,588 | 0.88 | 7,557 | 2,590 | 2,279 | -5,278 | -- |
| Town of Farmville WWTP (Prince Edward County) | VA0083135 | VAN040097 | 500 | 2.40 | 43,856 | 0.29 | 12,718 | 12,844 | 3,725 | -8,993 | -- |
| Alleghany County Aggregate | -- | VAN040069 | 500 | -- | -- | -- | 15,296 | | 3,762 | -11,534 | -- |
| Low Moor WWTP | VA0027979 | | 501 | 0.50 | 9,137 | 0.27 | | 1,921 | | | |
| Lower Jackson River WWTP | VA0090671 | | 502 | 3.50 | 47,516 | 0.27 | | 12,011 | | | |
| Maury Service Auth-Lexington-Rockbridge Regional WQCF | VA0088161 | VAN040068 | 500 | 3.00 | 54,820 | 0.31 | 16,994 | 9,957 | 3,087 | -13,907 | -- |
| Mohawk Industries, Inc. | VA0004677 | VAN040067 | 500 | 2.00 | 30,456 | 0.58 | 17,644 | 705 | 409 | -17,235 | -- |
| DuPont Specialty Products USA LLC - Spruance Plant | VA0004669 | VAN040079 | 500 | 23.33 | 201,080 | 1.00 | 201,080 | 178,411 | 178,411 | -22,669 | -- |
| BWXT Nuclear Operations Group Inc | VA0003697 | VAN040072 | 500 | 1.00 | 187,000 | 0.64 | 119,680 | 110,502 | 70,721 | -48,959 | -- |
| Philip Morris USA Inc - Park 500 Wastewater Plant | VA0026557 | VAN040084 | 500 | 2.90 | 139,724 | 1.00 | 139,724 | 38,943 | 38,943 | -100,781 | -- |
| Rivanna Water & Sewer Authority - Moores Cr WRRF | VA0025518 | VAN040076 | 500 | 15.00 | 282,994 | 0.64 | 181,116 | 119,838 | 76,696 | -104,420 | -- |
| City of Lynchburg - Lynchburg Regional WWTP | VA0024970 | VAN040075 | 500 | 22.00 | 536,019 | 0.64 | 343,052 | 319,310 | 204,358 | -138,694 | -- |
| VEPCO - Dominion-Chesterfield Power Station | VA0004146 | VAN040086 | 500 | -- | 243,099 | 1.00 | 243,099 | 16,783 | 16,783 | -226,316 | -- |
| City of Richmond WWTP | VA0063177 | VAN040085 | 500 | 45.00 | 1,093,652 | 1.00 | 1,093,652 | 818,880 | 818,880 | -274,772 | -- |
| Chesterfield County Aggregate | -- | VAN040080 | 500 | -- | -- | -- | 593,889 | | 288,371 | -305,518 | -- |
| Falling Creek WWTP | VA0024996 | | 501 | 12.00 | 182,738 | 1.00 | | 88,404 | | | |
| Proctors Creek WWTP | VA0060194 | | 502 | 27.00 | 411,151 | 1.00 | | 199,967 | | | |
| AdvanSix Resins and Chemicals LLC | VA0005291 | VAN040082 | 500 | 121.00 | 1,090,798 | 1.00 | 1,090,798 | 630,615 | 630,615 | -460,183 | -- |
| Henrico County Water Reclamation Facility | VA0063690 | VAN040081 | 500 | 75.00 | 1,142,085 | 1.00 | 1,142,085 | 438,771 | 438,771 | -703,314 | -- |
| City of Hopewell - Hopewell Water Renewal | VA0066630 | VAN040083 | 500 | 50.00 | 1,827,336 | 1.00 | 1,827,336 | 794,454 | 794,454 | -1,032,882 | -- |
| Upper/Middle James Subtotals | | | | | | | 7,621,436 | 4,987,556 | 4,235,286 | -3,386,150 | 0 |

2023 James Total Nitrogen Discharges

| Facility | Individual VPDES Permit No. | General Permit Registration No. | General Permit Outfall No. | Design Flow (MGD) | Discharged TN Wasteload Allocation (lbs/yr) | 2023 TN Delivery Factor | 2023 Delivered TN Wasteload Allocation (lbs/yr) | 2023 Discharged TN (lbs) | 2023 Delivered TN (lbs) | 2023 Delivered TN Exceedance/ (Credit) (lbs) | Nutrient Offset Fund Held Credits (lbs) |
|---|-----------------------------------|---------------------------------------|-------------------------------|----------------------|--|----------------------------|--|--------------------------------|----------------------------|---|---|
| Lower James | | | | | | | | | | | |
| Hampton Roads Bridge Tunnel I-64 Expansion | VA0093084 | VAN040176 | 500 | 1.13 | 4000 | 1.00 | 4000 | 26,317 | 26,317 | 22,317 | -- |
| Dragados USA Inc - CBBT Parallel Thimble Shoal Tunnel | VA0093009 | VAN040175 | 500 | 0.72 | 100 | 1.00 | 100 | 49 | 49 | -51 | -- |
| HRSD James River Aggregate | -- | VAN040090 | 500 | -- | -- | -- | 3,549,213 | | 1,820,939 | -1,728,274 | -- |
| Boat Harbor STP | VA0081256 | | 501 | 25.00 | 473,524 | 1.00 | | 714,519 | | | |
| James River STP | VA0081272 | | 502 | 20.00 | 378,819 | 1.00 | | 355,497 | | | |
| Williamsburg STP | VA0081302 | | 503 | 22.50 | 426,171 | 1.00 | | 74,885 | | | |
| Nansemond STP | VA0081299 | | 504 | 30.00 | 568,228 | 1.00 | | 193,118 | | | |
| Army Base STP | VA0081230 | | 505 | 18.00 | 340,937 | 1.00 | | 138,015 | | | |
| Virginia Initiative STP | VA0081281 | | 506 | 40.00 | 757,638 | 1.00 | | 344,905 | | | |
| Chesapeake-Elizabeth STP | VA0081264 | | 507 | 24.00 | 454,596 | 1.00 | | 0 | | | |
| Lawnes Point WWTP | VA0091952 | | 508 | 0.05 | 0 | 1.00 | | 0 | | | |
| Lower James Subtotals | | | | | | | 3,553,313 | 1,847,305 | 1,847,305 | -1,706,008 | -- |
| James River Basin Totals | | | | | | | 11,174,749 | 6,834,861 | 6,082,591 | -5,092,158 | 0 |

2023 James Total Phosphorus Discharges

| Facility | Individual VPDES Permit No. | General Permit Registration No. | General Permit Outfall No. | Design Flow (MGD) | Discharged TP Wasteload Allocation (lbs/yr) | 2023 TP Delivery Factor | 2023 Delivered TP Wasteload Allocation (lbs/yr) | 2023 Discharged TP (lbs) | 2023 Delivered TP (lbs) | 2023 Delivered TP Exceedance/ (Credit) (lbs) | Nutrient Offset Fund Held Credits (lbs) |
|---|-----------------------------|---------------------------------|----------------------------|-------------------|---|-------------------------|---|--------------------------|-------------------------|--|---|
| Upper/Middle James | | | | | | | | | | | |
| WestRock Virginia LLC - Covington | VA0003646 | VAN040070 | 500 | 35.00 | 96,771 | 0.71 | 68,707 | 119,596 | 84,913 | 16,206 | -- |
| DuPont Specialty Products USA LLC - Spruance Plant | VA0004669 | VAN040079 | 500 | 23.33 | 6,339 | 1.00 | 6,339 | 19,485 | 19,485 | 13,146 | -- |
| City of Lynchburg - Lynchburg Regional WWTP | VA0024970 | VAN040075 | 500 | 22.00 | 27,169 | 0.71 | 19,290 | 34,013 | 24,149 | 4,859 | -- |
| Buena Vista Public Service Authority-Buena Vista STP | VA0020991 | VAN040063 | 500 | 2.25 | 2,778 | 0.71 | 1,972 | 6,799 | 4,827 | 2,855 | -- |
| Aqua Virginia Aggregate | | VAN040178 | 500 | -- | -- | -- | 1,058 | | 2,588 | 1,530 | -- |
| Aqua Virginia Inc - Lake Monticello STP | VA0024945 | | 501 | 0.995 | 957 | 0.71 | | 3,489 | | | |
| Aqua Virginia Inc - Manakin Farms WWTP | VA0027910 | | 502 | 0.10 | 533 | 0.71 | | 156 | | | |
| VEPCO - Dominion-Chesterfield Power Station | VA0004146 | VAN040086 | 500 | -- | 170 | 1.00 | 170 | 452 | 452 | 282 | -- |
| Tyson Foods Inc - Glen Allen | VA0004031 | VAN040089 | 500 | 1.07 | 424 | 0.36 | 153 | 74 | 27 | -126 | -- |
| VA Dept of Corrections - Augusta Correctional Center | VA0091821 | VAN040118 | 500 | 0.44 | 402 | 0.71 | 285 | 225 | 160 | -125 | -- |
| Town of Amherst - Amherst-Rutledge Creek WWTP | VA0031321 | VAN040071 | 500 | 0.60 | 741 | 0.71 | 526 | 319 | 226 | -300 | -- |
| Town of Crewe WWTP (Nottoway County) | VA0020303 | VAN040100 | 500 | 0.50 | 617 | 0.53 | 327 | 22 | 12 | -315 | -- |
| VA Dept of Corrections - Powhatan Correctional Center | VA0020699 | VAN040077 | 500 | 0.47 | 581 | 0.71 | 413 | 127 | 90 | -323 | -- |
| Buckingham County / Dillwyn WWTP | VA0027294 | VAN040104 | 500 | 0.20 | 761 | 0.71 | 540 | 78 | 55 | -485 | -- |
| BWXT Nuclear Operations Group Inc | VA0003697 | VAN040072 | 500 | 1.00 | 1,235 | 0.71 | 877 | 494 | 351 | -526 | -- |
| Philip Morris USA Inc - Park 500 Wastewater Plant | VA0026557 | VAN040084 | 500 | 2.90 | 2,149 | 1.00 | 2,149 | 1,526 | 1,526 | -623 | -- |
| Town of Farmville WWTP (Prince Edward County) | VA0083135 | VAN040097 | 500 | 2.40 | 2,964 | 0.53 | 1,571 | 417 | 221 | -1,350 | -- |
| Alleghany County Aggregate | -- | VAN040069 | 500 | -- | -- | -- | 2,718 | | 1,244 | -1,474 | -- |
| Low Moor WWTP | VA0027979 | | 501 | 0.50 | 617 | 0.71 | | 593 | | | |
| Lower Jackson River WWTP | VA0090671 | | 502 | 3.50 | 3,211 | 0.71 | | 1,159 | | | |
| City of Covington STP | VA0025542 | VAN040065 | 500 | 3.00 | 3,705 | 0.71 | 2,631 | 1,336 | 949 | -1,682 | -- |
| Maury Service Auth-Lexington-Rockbridge Regional WQCF | VA0088161 | VAN040068 | 500 | 3.00 | 3,705 | 0.71 | 2,631 | 452 | 321 | -2,310 | -- |
| South Central Wastewater Authority WWTF | VA0025437 | VAN040087 | 500 | 23.00 | 28,404 | 1.00 | 28,404 | 24,439 | 24,439 | -3,965 | -- |
| Mohawk Industries, Inc. | VA0004677 | VAN040067 | 500 | 2.00 | 9,880 | 0.71 | 7,015 | 40 | 28 | -6,987 | -- |
| Rivanna Water & Sewer Authority - Moores Cr WRRF | VA0025518 | VAN040076 | 500 | 15.00 | 19,637 | 0.71 | 13,942 | 5,275 | 3,745 | -10,197 | -- |
| Greif Packaging LLC | VA0006408 | VAN040073 | 500 | 6.50 | 24,082 | 0.71 | 17,098 | 5,500 | 3,905 | -13,193 | -- |
| GP Big Island LLC | VA0003026 | VAN040066 | 500 | 10.87 | 40,273 | 0.71 | 28,594 | 20,147 | 14,304 | -14,290 | -- |
| City of Hopewell - Hopewell Water Renewal | VA0066630 | VAN040083 | 500 | 50.00 | 61,749 | 1.00 | 61,749 | 47,047 | 47,047 | -14,702 | -- |
| Chesterfield County Aggregate | -- | VAN040080 | 500 | -- | -- | -- | 45,817 | | 27,942 | -17,875 | -- |
| Falling Creek WWTP | VA0024996 | | 501 | 10.10 | 12,473 | 1.00 | | 11,886 | | | |
| Proctors Creek WWTP | VA0060194 | | 502 | 27.00 | 33,344 | 1.00 | | 16,056 | | | |
| AdvanSix Resins and Chemicals LLC | VA0005291 | VAN040082 | 500 | 121.00 | 40,541 | 1.00 | 40,541 | 21,635 | 21,635 | -18,906 | -- |
| City of Richmond WWTP | VA0063177 | VAN040085 | 500 | 45.00 | 55,299 | 1.00 | 55,299 | 11,103 | 11,103 | -44,196 | -- |
| Henrico County Water Reclamation Facility | VA0063690 | VAN040081 | 500 | 75.00 | 92,623 | 1.00 | 92,623 | 37,957 | 37,957 | -54,666 | -- |
| Upper/Middle James Subtotals | | | | | | | 503,439 | 391,897 | 333,702 | -169,737 | 0 |

2023 James Total Phosphorus Discharges

| Facility | Individual VPDES Permit No. | General Permit Registration No. | General Permit Outfall No. | Design Flow (MGD) | Discharged TP Wasteload Allocation (lbs/yr) | 2023 TP Delivery Factor | 2023 Delivered TP Wasteload Allocation (lbs/yr) | 2023 Discharged TP (lbs) | 2023 Delivered TP (lbs) | 2023 Delivered TP Exceedance/ (Credit) (lbs) | Nutrient Offset Fund Held Credits (lbs) |
|---|-----------------------------------|---------------------------------------|-------------------------------|----------------------|--|----------------------------|--|--------------------------------|----------------------------|---|---|
| Lower James | | | | | | | | | | | |
| Dragados USA Inc - CBBT Parallel Thimble Shoal Tunnel | VA0093009 | VAN040175 | 500 | 0.72 | 550 | 1.00 | 550 | 4 | 4 | -546 | -- |
| Hampton Roads Bridge Tunnel I-64 Expansion | VA0093084 | VAN040176 | 500 | 1.13 | 2,000 | 1.00 | 2000 | 40 | 40 | -1,960 | -- |
| G. Robert House, Jr. WTP | VA0076473 | VAN040127 | 500 | -- | 12,739 | 1.00 | 12,739 | 3,611 | 3,611 | -9,128 | -- |
| HRSD James River Aggregate | -- | VAN040090 | 500 | -- | -- | -- | 315,865 | | 176,750 | -139,115 | -- |
| Boat Harbor STP | VA0081256 | | 501 | 25.00 | 43,175 | 1.00 | | 24,745 | | | |
| James River STP | VA0081272 | | 502 | 20.00 | 34,540 | 1.00 | | 19,045 | | | |
| Williamsburg STP | VA0081302 | | 503 | 22.50 | 38,858 | 1.00 | | 22,229 | | | |
| Nansemond STP | VA0081299 | | 504 | 30.00 | 51,811 | 1.00 | | 48,216 | | | |
| Army Base STP | VA0081230 | | 505 | 18.00 | 31,086 | 1.00 | | 23,805 | | | |
| Virginia Initiative STP | VA0081281 | | 506 | 40.00 | 69,081 | 1.00 | | 38,710 | | | |
| Chesapeake-Elizabeth STP | VA0081264 | | 507 | 24.00 | 41,448 | 1.00 | | 0 | | | |
| Lawnes Point WWTP | VA0091952 | | 508 | 0.05 | 0 | 1.00 | | 0 | | | |
| Lower James Subtotal | | | | | | | 331,154 | 180,405 | 180,405 | -150,749 | -- |
| James River Basin Totals | | | | | | | 834,593 | 572,302 | 514,107 | -320,486 | 0 |

| 2023 Eastern Shore Total Nitrogen Discharges | | | | | | | | | | | |
|---|-----------------------------|---------------------------------|----------------------------|-------------------|---|-------------------------|---|--------------------------|-------------------------|--|---|
| Facility | Individual VPDES Permit No. | General Permit Registration No. | General Permit Outfall No. | Design Flow (MGD) | Discharged TN Wasteload Allocation (lbs/yr) | 2023 TN Delivery Factor | 2023 Delivered TN Wasteload Allocation (lbs/yr) | 2023 Discharged TN (lbs) | 2023 Delivered TN (lbs) | 2023 Delivered TN Exceedance/ (Credit) (lbs) | Nutrient Offset Fund Held Credits (lbs) |
| Town of Tangier WWTP (Accomack County) | VA0067423 | VAN050004 | 500 | 0.10 | 1,218 | 1.00 | 1,218 | 956 | 956 | -262 | -- |
| Shore Health Services-Riverside Shore Memorial Hospital | VA0027537 | VAN050003 | 500 | 0.10 | 1,218 | 1.00 | 1,218 | 552 | 552 | -666 | -- |
| Town of Cape Charles WWTP (Northampton County) | VA0021288 | VAN050001 | 500 | 0.25 | 3,046 | 1.00 | 3,046 | 271 | 271 | -2,775 | -- |
| Town of Onancock WWTP (Accomack County) | VA0021253 | VAN050002 | 500 | 0.75 | 9,137 | 1.00 | 9,137 | 1,226 | 1,226 | -7,911 | -- |
| Tyson Farms Inc - Temperanceville | VA0004049 | VAN050005 | 500 | 1.25 | 22,842 | 1.00 | 22,842 | 8,695 | 8,695 | -14,147 | -- |
| Eastern Shore River Basin Totals | | | | | | | 37,461 | 11,700 | 11,700 | -25,761 | -- |

2023 Eastern Shore Total Phosphorus Discharges

| Facility | Individual VPDES Permit No. | General Permit Registration No. | General Permit Outfall No. | Design Flow (MGD) | Discharged TP Wasteload Allocation (lbs/yr) | 2023 TP Delivery Factor | 2023 Delivered TP Wasteload Allocation (lbs/yr) | 2023 Discharged TP (lbs) | 2023 Delivered TP (lbs) | 2023 Delivered TP Exceedance/ (Credit) (lbs) | Nutrient Offset Fund Held Credits (lbs) |
|---|-----------------------------|---------------------------------|----------------------------|-------------------|---|-------------------------|---|--------------------------|-------------------------|--|---|
| Town of Tangier WWTP (Accomack County) | VA0067423 | VAN050004 | 500 | 0.10 | 91 | 1.00 | 91 | 154 | 154 | 63 | -- |
| Shore Health Services-Riverside Shore Memorial Hospital | VA0027537 | VAN050003 | 500 | 0.10 | 91 | 1.00 | 91 | 22 | 22 | -69 | -- |
| Town of Cape Charles WWTP (Northampton County) | VA0021288 | VAN050001 | 500 | 0.25 | 228 | 1.00 | 228 | 37 | 37 | -191 | -- |
| Town of Onancock WWTP (Accomack County) | VA0021253 | VAN050002 | 500 | 0.75 | 685 | 1.00 | 685 | 140 | 140 | -545 | -- |
| Tyson Farms Inc - Temperanceville | VA0004049 | VAN050005 | 500 | 1.25 | 1,142 | 1.00 | 1,142 | 432 | 432 | -710 | -- |
| Eastern Shore River Basin Totals | | | | | | | 2,237 | 785 | 785 | -1,452 | -- |