

## 2024 Nutrient Trades Report

§ 62.1-44.19:18.E. of the State Water Control Law requires that by July 1st of each year, DEQ publish notice of all nitrogen and phosphorus credit exchanges and purchases for the previous calendar year and make all documents relating to the exchanges and purchases available to any person requesting them.

For calendar year 2024 all but 22 registrants under the Watershed General Virginia Pollutant Discharge Elimination System Permit (9 VAC 25-820-70) met their wasteload allocations without the need for trading. All 22 facilities that exceeded their Total Nitrogen and/or Total Phosphorus wasteload allocations acquired enough credits to meet their compliance needs. An adequate supply of credits was available in every basin.

## 2024 Total Nitrogen Credit Transfers

| Basin        | Facility                                              | Individual<br>VPDES<br>Permit No. | General<br>Permit<br>Registration<br>No. | Design Flow<br>(MGD) | Discharged<br>TN<br>Wasteload<br>Allocation<br>(lbs/yr) | TN Delivery<br>Factor | Delivered TN<br>Wasteload<br>Allocation<br>(lbs/yr) | 2024<br>Discharged<br>TN (lbs) | 2024<br>Delivered TN<br>(lbs) | 2024<br>Delivered TN<br>Exceedance<br>(lbs) | 2024<br>Delivered TN<br>Credits<br>Obtained<br>(lbs) | Source of<br>Credits |
|--------------|-------------------------------------------------------|-----------------------------------|------------------------------------------|----------------------|---------------------------------------------------------|-----------------------|-----------------------------------------------------|--------------------------------|-------------------------------|---------------------------------------------|------------------------------------------------------|----------------------|
| Potomac      | Stoney Creek Sanitary District STP                    | VA0028380                         | VAN010015                                | 0.60                 | 8,259                                                   | 0.25                  | 2,065                                               | 10,291                         | 2,573                         | 508                                         | 508                                                  | VNCEA                |
| Potomac      | Town of Colonial Beach STP                            | VA0026409                         | VAN010099                                | 2.00                 | 18,273                                                  | 1.00                  | 18,273                                              | 18,342                         | 18,342                        | 69                                          | 69                                                   | VNCEA                |
| Rappahannock | City of Fredericksburg WWTF                           | VA0025127                         | VAN020095                                | 4.50                 | 54,820                                                  | 1.00                  | 54,820                                              | 72,905                         | 72,905                        | 18,085                                      | 18,085                                               | VNCEA                |
| Rappahannock | Hampton Roads Sanitation District -Urbanna WWTP       | VA0026263                         | VAN020034                                | 0.10                 | 1,218                                                   | 1.00                  | 1,218                                               | 2,819                          | 2,819                         | 1,601                                       | 1,601                                                | VNCEA                |
| Rappahannock | Childrens Bible Ministries - Camp Red Arrow WWTP      | VA0092452                         | VAN020162                                | 0.0055               | 204                                                     | 0.49                  | 100                                                 | 386                            | 189                           | 89                                          | 89                                                   | VNCEA                |
| York         | WestRock CP LLC - West Point                          | VA0003115                         | VAN030049                                | 23.00                | 259,177                                                 | 1.00                  | 259,177                                             | 312,745                        | 312,745                       | 53,568                                      | 53,568                                               | VNCEA                |
| York         | Leisure Capital Corp - Shenandoah Crossing STP        | VA0076678                         | VAN030119                                | 0.10                 | 2,848                                                   | 0.21                  | 598                                                 | 2,874                          | 604                           | 6                                           | 6                                                    | VNCEA                |
| James        | South Central Wastewater Authority WWTF               | VA0025437                         | VAN040087                                | 23.00                | 350,239                                                 | 1.00                  | 350,239                                             | 389,596                        | 389,596                       | 39,357                                      | 50,000                                               | VAN040080            |
| James        | Buena Vista Public Service Authority-Buena Vista STP  | VA0020991                         | VAN040063                                | 2.25                 | 41,115                                                  | 0.55                  | 22,613                                              | 52,391                         | 28,815                        | 6,202                                       | 6,202                                                | VNCEA                |
| James        | City of Covington STP                                 | VA0025542                         | VAN040065                                | 3.00                 | 54,820                                                  | 0.21                  | 11,512                                              | 70,042                         | 14,709                        | 3,197                                       | 3,197                                                | VNCEA                |
| James        | DuPont Specialty Products USA LLC - Spruance Plant    | VA0004669                         | VAN040079                                | 23.33                | 201,080                                                 | 1.00                  | 201,080                                             | 202,375                        | 202,375                       | 1,295                                       | 1,295                                                | VNCEA                |
| James        | Greif Packaging LLC                                   | VA0006408                         | VAN040073                                | 6.50                 | 73,246                                                  | 0.64                  | 46,877                                              | 73,661                         | 47,143                        | 266                                         | 266                                                  | VNCEA                |
| James        | Hampton Roads Bridge Tunnel I-64 Expansion            | VA0093084                         | VAN040176                                | 1.13                 | 4000                                                    | 1.00                  | 4000                                                | 4,957                          | 4,957                         | 957                                         | 957                                                  | VAN040090            |
| James        | Dragados USA Inc - CBBT Parallel Thimble Shoal Tunnel | VA0093009                         | VAN040175                                | 0.72                 | 100                                                     | 1.00                  | 100                                                 | 158                            | 158                           | 58                                          | 58                                                   | VAN040090            |
|              |                                                       |                                   |                                          |                      |                                                         |                       |                                                     |                                | <b>Totals</b>                 | <b>125,200</b>                              | <b>135,901</b>                                       |                      |

### Footnotes

VNCEA = Virginia Nutrient Credit Exchange Association

VAN040080 - Chesterfield County

VAN040090 - HRSD James River Aggregate

## 2024 Total Phosphorus Credit Transfers

| Basin         | Facility                                             | Individual<br>VPDES<br>Permit No. | General<br>Permit<br>Registration<br>No. | Design Flow<br>(MGD) | Discharged<br>TP<br>Wasteload<br>Allocation<br>(lbs/yr) | TP Delivery<br>Factor | Delivered TP<br>Wasteload<br>Allocation<br>(lbs/yr) | 2024<br>Discharged<br>TP (lbs) | 2024<br>Delivered TP<br>(lbs) | 2024<br>Delivered TP<br>Exceedance<br>(lbs) | 2024<br>Delivered TP<br>Credits<br>Obtained<br>(lbs) | Source of<br>Credits |
|---------------|------------------------------------------------------|-----------------------------------|------------------------------------------|----------------------|---------------------------------------------------------|-----------------------|-----------------------------------------------------|--------------------------------|-------------------------------|---------------------------------------------|------------------------------------------------------|----------------------|
| Potomac       | Merck Sharp & Dohme Corp. (Outfall 101)              | VA0002178                         | VAN010007                                | 1.20                 | 4,384                                                   | 0.47                  | 2,060                                               | 11,348                         | 5,334                         | 3,274                                       | 3,274                                                | VNCEA                |
| Potomac       | Stoney Creek Sanitary District STP                   | VA0028380                         | VAN010015                                | 0.60                 | 667                                                     | 0.47                  | 313                                                 | 1,341                          | 630                           | 317                                         | 317                                                  | VNCEA                |
| Rappahannock  | City of Fredericksburg WWTF                          | VA0025127                         | VAN020095                                | 4.50                 | 4,112                                                   | 1.00                  | 4,112                                               | 5,572                          | 5,572                         | 1,460                                       | 1,460                                                | VNCEA                |
| Rappahannock  | Greene County - Rapidan WWTP                         | VA0090948                         | VAN020026                                | 0.60                 | 548                                                     | 0.75                  | 411                                                 | 1,516                          | 1,137                         | 726                                         | 726                                                  | VNCEA                |
| Rappahannock  | Hampton Roads Sanitation District -Urbanna WWTP      | VA0026263                         | VAN020034                                | 0.10                 | 91                                                      | 1.00                  | 91                                                  | 662                            | 662                           | 571                                         | 571                                                  | VNCEA                |
| Rappahannock  | Westmoreland Co - Montross-Westmoreland WWTP         | VA0072729                         | VAN020032                                | 0.13                 | 119                                                     | 0.88                  | 105                                                 | 181                            | 159                           | 54                                          | 54                                                   | VNCEA                |
| Rappahannock  | Childrens Bible Ministries - Camp Red Arrow WWTP     | VA0092452                         | VAN020162                                | 0.0055               | 27                                                      | 0.75                  | 20                                                  | 43                             | 32                            | 12                                          | 12                                                   | VNCEA                |
| York          | Rapidan Service Authority - Gordonsville STP         | VA0021105                         | VAN030046                                | 0.94                 | 1,145                                                   | 0.53                  | 607                                                 | 1,627                          | 862                           | 255                                         | 255                                                  | VNCEA                |
| York          | Leisure Capital Corp - Shenandoah Crossing STP       | VA0076678                         | VAN030119                                | 0.10                 | 381                                                     | 0.65                  | 210                                                 | 382                            | 248                           | 38                                          | 38                                                   | VNCEA                |
| James         | City of Hopewell - Hopewell Water Renewal            | VA0066630                         | VAN040083                                | 50.00                | 61,749                                                  | 1.00                  | 61,749                                              | 86,471                         | 86,471                        | 24,722                                      | 24,722                                               | VNCEA                |
| James         | DuPont Specialty Products USA LLC - Spruance Plant   | VA0004669                         | VAN040079                                | 23.33                | 6,339                                                   | 1.00                  | 6,339                                               | 19,381                         | 19,381                        | 13,042                                      | 13,042                                               | VNCEA                |
| James         | City of Lynchburg - Lynchburg Regional WWTP          | VA0024970                         | VAN040075                                | 22.00                | 27,169                                                  | 0.71                  | 19,290                                              | 32,534                         | 23,099                        | 3,809                                       | 3,809                                                | VNCEA                |
| James         | Buena Vista Public Service Authority-Buena Vista STP | VA0020991                         | VAN040063                                | 2.25                 | 2,778                                                   | 0.71                  | 1,972                                               | 7,681                          | 5,454                         | 3,482                                       | 3,482                                                | VNCEA                |
| James         | Aqua Virginia Aggregate                              |                                   | VAN040178                                | --                   | --                                                      | --                    | 1,058                                               |                                | 2,775                         | 1,717                                       | 1,718                                                | VNCEA                |
|               | Aqua Virginia Inc - Lake Monticello STP              | VA0024945                         |                                          | 0.995                | 957                                                     | 0.71                  |                                                     | 3,794                          |                               |                                             |                                                      |                      |
|               | Aqua Virginia Inc - Manakin Farms WWTP               | VA0027910                         |                                          | 0.10                 | 533                                                     | 0.71                  |                                                     | 114                            |                               |                                             |                                                      |                      |
| Eastern Shore | Town of Tangier WWTP (Accomack County)               | VA0067423                         | VAN050004                                | 0.10                 | 91                                                      | 1.00                  | 91                                                  | 131                            | 131                           | 40                                          | 40                                                   | VAN050005            |
|               |                                                      |                                   |                                          |                      |                                                         |                       |                                                     |                                | <b>Totals</b>                 | <b>53,519</b>                               | <b>53,520</b>                                        |                      |

### Footnotes

VNCEA = Virginia Nutrient Credit Exchange Association

VAN040080 - Chesterfield County

VAN050005 - Tyson Farms Inc - Temperanceville