

Table D-1. Annual NO<sub>x</sub> Regional Source Inventory - Georgia Major and Minor Source Review

| SOURCE DESCRIPTION   | County     | UTM East<br>(NAD83<br>Zone 17)<br>(m) | UTM North<br>(NAD83<br>Zone 17)<br>(m) | Potential<br>Facility NO <sub>x</sub><br>Emissions <sup>2</sup><br>(tpy) | Distance<br>from<br>Facility<br>(km) | Within 2<br>km of<br>another<br>facility? | NO <sub>x</sub><br>20D | NO <sub>x</sub><br>Exclude<br>Per 20D<br>Rule?* |
|--|------------|---------------------------------------|--|--|--------------------------------------|---|------------------------|---|
| <b>Georgia Sources</b>                                     |            |                                       |  |  |                                      |   |                        |   |
| Continental Commercial Products Llc-Glit Div               | Jefferson  | 371,893                               | 3,675,464                              | 28.44  | 4.75                                 | No  | 81.52                  | Yes   |
| Mestek, Inc. (dba Air Balance, Inc.)                       | Jefferson  | 369,624                               | 3,673,972                              | 3.30   | 4.30                                 | No  | 72.68                  | Yes   |
| Thiele Kaolin Co Reedy Creek Div                           | Glascok    | 366,517                               | 3,682,647                              | 61.07  | 13.30                                | No  | 252.70                 | Yes   |
| Southern Natoml Gas  | Jefferson  | 368,097                               | 3,679,656                              | 469.90   | 9.92                                 | No  | 185.06                 | No  |
| KaMin - Wrens Calcine Plant                                | Jefferson  | 366,224                               | 3,680,413                              | 92.88  | 11.51                                | No  | 216.78                 | Yes   |
| KaMin - Wrens Main   | Jefferson  | 369,361                               | 3,682,652                              | 250.00   | 12.30                                | No  | 232.59                 | No  |
| Thermo King Corporation                                    | Jefferson  | 367,098                               | 3,651,540                              | 16.56  | 19.95                                | No  | 385.69                 | Yes   |
| US Army Signal Ctr. & Ft. Gordon                           | Richmond   | 391,250                               | 3,697,629                              | 318.58   | 32.78                                | No  | 642.16                 | Yes   |
| Erdene Materials Corporation - Dearing Plant               | McDuffie   | 371,879                               | 3,698,091                              | 6.44   | 27.34                                | No  | 533.46                 | Yes   |
| Georgia Vitrified Brick & Clay Ltd                         | Columbia   | 379,728                               | 3,697,659                              | 1.23   | 27.86                                | No  | 543.86                 | Yes   |
| Unimin Corporation - Hephzibah                             | Richmond   | 395,896                               | 3,686,999                              | 49.50  | 28.50                                | No  | 556.53                 | Yes   |
| Augusta-Richmond County Deans Bridge Road Landfill         | Richmond   | 394,215                               | 3,690,716                              | 40.33  | 29.51                                | No  | 576.77                 | Yes   |
| Georgia DOT - Davisboro Asphalt Plant                      | Washington | 350,960                               | 3,651,100                              | 8.51   | 29.15                                | No  | 569.54                 | Yes   |
| ASTA, Inc.   | Burke      | 404,618                               | 3,663,313                              | -  | 32.99                                | No  | 646.31                 | Yes   |
| Farmers Gin & Storage                                      | Jefferson  | 369,313                               | 3,636,718                              | 2.50   | 34.18                                | No  | 670.29                 | Yes   |
| Fulghum Industries, Inc.                                   | Jefferson  | 368,699                               | 3,635,941                              | -  | 35.02                                | Yes                                       | 686.97                 | Yes   |
| Battle Lumber Company Inc.                                 | Jefferson  | 369,319                               | 3,636,323                              | 59.07  | 34.58                                | No  | 678.13                 | Yes   |
| National Security Agency                                   | Richmond   | 408,130                               | 3,704,261                              | 49.50  | 48.92                                | No  | 965.04                 | Yes   |
| Tin Inc. dba Temple-Inland                                 | McDuffie   | 362,547                               | 3,703,842                              | 453.99   | 34.55                                | No  | 677.54                 | Yes   |
| TRW Warrenton Foundry                                      | Warren     | 346,921                               | 3,697,931                              | 25.00  | 37.31                                | No  | 732.79                 | Yes   |
| Martin Marietta Aggregates - Warrenton Rock Quarry         | Warren     | 347,946                               | 3,695,382                              | -  | 34.76                                | No  | 681.89                 | Yes   |
| HP Pelzer - Thomson  | McDuffie   | 357,993                               | 3,702,062                              | 3.26   | 34.89                                | Yes                                       | 684.31                 | Yes   |
| Shaw Industries Group, Inc. - Plant 22/89                  | McDuffie   | 356,807                               | 3,701,993                              | 42.90  | 34.95                                | No  | 685.63                 | Yes   |
| Mundy, Inc.  | Burke      | 405,858                               | 3,661,689                              | 100.00   | 34.58                                | Yes                                       | 678.29                 | Yes   |
| FLAMM Technologies Inc.                                    | Burke      | 405,633                               | 3,663,396                              | -  | 33.96                                | No  | 665.73                 | Yes   |
| Georgia Iron Works Co                                      | Columbia   | 389,655                               | 3,702,550                              | 0.15   | 36.14                                | No  | 709.31                 | Yes   |
| Plant Washington   | Washington | 337,088                               | 3,659,816                              | 1,345.00   | 37.05                                | No  | 727.54                 | No  |
| Georgia-Pacific Corp Chip-n-Saw Div. Warrenton             | Warren     | 346,957                               | 3,697,767                              | 100.00   | 37.16                                | No  | 729.90                 | Yes   |
| Dogwood Quarry   | Columbia   | 383,226                               | 3,709,638                              | 100.00   | 40.36                                | No  | 793.79                 | Yes   |
| Hanson Aggregates Southeast LLC - Sparta Quarry            | Hancock    | 322,678                               | 3,681,213                              | 100.00   | 50.89                                | No  | 1,004.43               | Yes   |
| American Concrete - Gracewood                              | Richmond   | 402,911                               | 3,693,445                              | 100.00   | 37.96                                | No  | 745.73                 | Yes   |
| Jebco, Inc.  | Warren     | 343,844                               | 3,697,225                              | 100.00   | 39.00                                | No  | 750.00                 | Yes   |
| Solvay Advanced Polymers - Augusta                         | Richmond   | 405,656                               | 3,692,766                              | 250.00   | 39.81                                | No  | 766.56                 | Yes   |
| Omni Oxide Corporation                                     | Richmond   | 405,926                               | 3,692,761                              | 100.00   | 40.03                                | No  | 787.27                 | Yes   |
| US Battery Mfg. Co of Augusta                              | Richmond   | 405,926                               | 3,692,761                              | 100.00   | 40.03                                | No  | 787.27                 | Yes   |
| Martin Marietta Aggregates                                 | Columbia   | 385,159                               | 3,709,414                              | 100.00   | 40.68                                | No  | 800.28                 | Yes   |
| Augusta Ready Mix, Inc.                                    | Columbia   | 387,150                               | 3,706,000                              | 100.00   | 38.17                                | No  | 800.28                 | Yes   |
| Reeves Construction Co.                                    | Columbia   | 384,120                               | 3,709,694                              | 100.00   | 40.64                                | No  | 800.28                 | Yes   |
| EKA Chemicals - Augusta GP Plant                           | Richmond   | 407,594                               | 3,695,445                              | 100.00   | 42.92                                | No  | 805.04                 | Yes   |
| Sample & Son Const and Demolition LF                       | Columbia   | 382,931                               | 3,710,318                              | 100.00   | 40.92                                | No  | 824.18                 | Yes   |
| The Procter & Gamble Manufacturing Company                 | Richmond   | 406,562                               | 3,694,781                              | 100.00   | 41.70                                | No  | 805.04                 | Yes   |
| Leco Corporation   | Columbia   | 394,372                               | 3,705,331                              | 100.00   | 40.92                                | No  | 805.04                 | Yes   |
| Milliken & Company Kingsley Plant                          | McDuffie   | 360,222                               | 3,710,799                              | 100.00   | 41.88                                | No  | 824.18                 | Yes   |
| Pryoflex Augusta LLC                                       | Richmond   | 411,350                               | 3,689,329                              | 100.00   | 43.08                                | No  | 848.13                 | No  |
| West Fraser - Augusta Lumber Mill                          | Richmond   | 410,417                               | 3,688,499                              | 22.79  | 41.88                                | No  | 848.13                 | No  |
| Deerfield Tissue, LLC                                      | Richmond   | 411,063                               | 3,687,063                              | 9.64   | 41.89                                | No  | 848.13                 | No  |
| Farmers & Truckers Biodiesel LLC                           | Richmond   | 410,501                               | 3,688,406                              | -  | 41.92                                | No  | 848.13                 | No  |
| International Paper - Augusta Mill                         | Richmond   | 411,198                               | 3,688,017                              | 4,761.60   | 42.39                                | Yes                                       | 848.13                 | No  |
| International Flavors and Fragrances                       | Richmond   | 410,509                               | 3,688,702                              | 34.78  | 42.05                                | No  | 848.13                 | No  |
| PVS Technologies, Inc.                                     | Richmond   | 411,101                               | 3,689,082                              | -  | 42.75                                | No  | 848.13                 | No  |
| Augusta Newsprint Co                                       | Richmond   | 411,043                               | 3,688,936                              | 499.63   | 42.63                                | No  | 848.13                 | No  |
| Olin Corporation Augusta Plant                             | Richmond   | 411,642                               | 3,689,877                              | 18.31  | 43.58                                | No  | 848.13                 | No  |
| Lafarge Building Materials, Inc. - Martinez Concrete Plant | Columbia   | 395,868                               | 3,705,928                              | 100.00   | 42.24                                | No  | 831.35                 | Yes   |
| Finechem USA, Inc  | Richmond   | 410,028                               | 3,691,245                              | 100.00   | 42.77                                | Yes                                       | 842.04                 | Yes   |
| Garrett Aviation Services                                  | Richmond   | 409,383                               | 3,692,743                              | 100.00   | 42.95                                | No  | 842.04                 | Yes   |
| Occidental Chemical Corp                                   | Richmond   | 408,146                               | 3,695,572                              | 250.00   | 43.45                                | No  | 842.04                 | Yes   |
| Prayon Inc   | Richmond   | 407,850                               | 3,695,193                              | 100.00   | 42.99                                | No  | 842.04                 | Yes   |
| Keebler Foods Company                                      | Richmond   | 408,029                               | 3,695,528                              | 100.00   | 43.33                                | Yes                                       | 855.56                 | Yes   |
| Augusta Select Tissue, LLC                                 | Richmond   | 408,349                               | 3,695,293                              | 100.00   | 43.46                                | No  | 855.56                 | Yes   |
| Kendall Co Augusta Plant                                   | Richmond   | 408,434                               | 3,695,438                              | 100.00   | 43.61                                | No  | 855.56                 | Yes   |
| Georgia-Pacific Corporation 1 LLC                          | Richmond   | 407,912                               | 3,697,238                              | 100.00   | 44.23                                | No  | 855.56                 | Yes   |
| American Concrete - Martinez                               | Richmond   | 398,414                               | 3,706,473                              | 100.00   | 44.14                                | No  | 869.37                 | Yes   |
| Cobb EMC - Sandersville                                    | Washington | 331,802                               | 3,652,098                              | 76.60  | 44.76                                | No  | 881.70                 | Yes   |
| Burgess Pigment Company, Sandersville Plant                | Washington | 329,707                               | 3,649,412                              | 79.58  | 47.80                                | No  | 881.70                 | Yes   |
| Thiele Kaolin Co. - Sandersville Plant                     | Washington | 330,686                               | 3,649,165                              | 211.71   | 47.04                                | No  | 881.70                 | Yes   |
| Bulk Chemical Services, LLC                                | Washington | 332,077                               | 3,649,008                              | -  | 45.89                                | No  | 881.70                 | Yes   |
| KaMin - Sandersville                                       | Washington | 329,681                               | 3,649,059                              | 250.00   | 47.99                                | No  | 881.70                 | Yes   |



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| SOURCE DESCRIPTION                                     | County     | UTM East<br>(NAD83<br>Zone 17)<br>(m) | UTM North<br>(NAD83<br>Zone 17)<br>(m) | Potential<br>Facility NO <sub>x</sub><br>Emissions <sup>1</sup><br>(tpy) | Distance<br>from<br>Facility<br>(km) | Within 2<br>km of<br>another<br>facility? | NO <sub>x</sub><br>20D | NO <sub>x</sub><br>Exclude<br>Per 20D<br>Rule? <sup>2</sup> |
|--|------------|---------------------------------------|--|--|--------------------------------------|---|------------------------|---|
| Thermal Ceramics                                       | Richmond   | 407,079                               | 3,700,074                              | 10.38  | 45.35                                |   |                        |   |
| Boral Bricks #6 Augusta Plt                            | Richmond   | 408,218                               | 3,699,805                              | 30.66  | 46.05                                |   |                        |   |
| USVA Veterans Admin H                                  | Richmond   | 404,725                               | 3,703,684                              | 63.97  | 46.09                                |   |                        |   |
| Augusta Hospital, LLC                                  | Richmond   | 405,418                               | 3,703,585                              | 100.00   | 46.50                                |   |                        |   |
| University Hospital                                    | Richmond   | 405,696                               | 3,703,934                              | 98.07  | 46.95                                | Yes                                       | 893.57                 | Yes   |
| Transflo Terminal Servics, Inc.                        | Richmond   | 406,412                               | 3,702,582                              | -  | 46.52                                |   |                        |   |
| Southern Crushers, Inc.                                | Richmond   | 408,492                               | 3,701,078                              | 86.63  | 47.08                                |   |                        |   |
| Mabus Brothers Construction Company                    | Richmond   | 408,492                               | 3,701,078                              | 48.20  | 47.08                                |   |                        |   |
| FPL Food, LLC  | Richmond   | 409,291                               | 3,701,655                              | 68.14  | 48.06                                |   |                        |   |
| crawford kitchens, inc                                 | Columbia   | 398,903                               | 3,708,252                              | 25.00  | 45.87                                | Yes                                       | 903.99                 | Yes   |
| Martin Marietta Aggregates - Richmond County           | Richmond   | 398,434                               | 3,709,133                              | 100.00   | 46.33                                |   |                        |   |
| KGEN Sandersville LLC                                  | Washington | 326,300                               | 3,665,800                              | 724.00   | 46.45                                | Yes                                       | 903.99                 | Yes   |
| Paul Creek Energy Center                               | Washington | 325,635                               | 3,664,932                              | 100.00   | 47.21                                |   |                        |   |
| Inerlys Clays, Inc. Sandersville Calcine Plant         | Washington | 330,657                               | 3,649,161                              | 154.96   | 47.07                                | Yes                                       | 903.99                 | Yes   |
| Kentucky-Tennessee Clay Company (Plts 51 & 52)         | Washington | 329,474                               | 3,648,637                              | 100.00   | 48.36                                |   |                        |   |
| World Color Printing (USA) II Corp.                    | Columbia   | 396,085                               | 3,711,586                              | 100.00   | 47.16                                |   |                        |   |
| US Battery Manufacturing Company                       | Columbia   | 395,518                               | 3,712,345                              | 100.00   | 47.54                                | Yes                                       | 929.84                 | Yes   |
| Greenfield Industries, Inc.                            | Columbia   | 396,501                               | 3,710,870                              | 100.00   | 46.76                                |   |                        |   |
| Sandersville Ethanol, LLC                              | Washington | 328,546                               | 3,651,211                              | 100.00   | 48.09                                | No  | 948.35                 | Yes   |
| Elanco Augusta Technology Center                       | Richmond   | 412,216                               | 3,698,452                              | 100.00   | 48.43                                | Yes                                       | 955.29                 | Yes   |
| The Nutrasweet Kelco Co                                | Richmond   | 412,217                               | 3,698,455                              | 250.00   | 48.44                                |   |                        |   |
| American Concrete - Downtown                           | Richmond   | 409,105                               | 3,704,324                              | 100.00   | 49.68                                |   |                        |   |
| Boral Bricks, Inc. - Plants 3 & 5                      | Richmond   | 409,495                               | 3,703,909                              | 100.00   | 49.69                                |   |                        |   |
| Medical College of Georgia                             | Richmond   | 408,094                               | 3,703,760                              | 100.00   | 48.55                                |   |                        |   |
| Modern Welding Company of Georgia                      | Richmond   | 409,380                               | 3,704,826                              | 100.00   | 50.22                                | Yes                                       | 980.18                 | Yes   |
| Potters Industries, Inc. - Q-Cel Facility              | Richmond   | 409,380                               | 3,704,826                              | 100.00   | 50.22                                |   |                        |   |
| Standard Textile Augusta, Inc.                         | Richmond   | 407,982                               | 3,705,392                              | 100.00   | 49.60                                |   |                        |   |
| Industrial Metal Finishing, Inc.                       | Richmond   | 409,399                               | 3,704,113                              | 100.00   | 49.76                                |   |                        |   |
| Top Bead Welding Services, Inc.                        | Richmond   | 409,806                               | 3,702,494                              | 100.00   | 48.99                                |   |                        |   |
| Reeves CC Inc. - Riverwatch HMAF                       | Richmond   | 403,644                               | 3,709,732                              | 100.00   | 49.90                                | Yes                                       | 984.64                 | Yes   |
| Martin Marietta Materials, Inc. - Augusta Quarry       | Richmond   | 404,023                               | 3,711,378                              | 100.00   | 51.43                                |   |                        |   |
| Kentucky-Tennessee Clay Company (Plt 53)               | Washington | 325,130                               | 3,654,389                              | 100.00   | 50.10                                |   |                        |   |
| Cobb EMC - Robin Springs                               | Washington | 324,916                               | 3,654,516                              | 100.00   | 50.26                                | Yes                                       | 988.63                 | Yes   |
| Inerlys Clays Inc, Deepstep Road Plant Sandersville GA | Washington | 324,393                               | 3,655,700                              | 142.87   | 50.39                                |   |                        |   |
| General Chemical Corp., Augusta Plant                  | Richmond   | 413,066                               | 3,700,330                              | -  | 50.22                                |   |                        |   |
| PCS Nitrogen Fertilizer Inc                            | Richmond   | 413,506                               | 3,700,701                              | 4,096.56   | 50.79                                | Yes                                       | 990.93                 | No  |
| DSM Resins U.S. Inc.                                   | Richmond   | 413,697                               | 3,701,994                              | 10.42  | 51.72                                |   |                        |   |
| DSM Chemicals North America, Inc.                      | Richmond   | 413,727                               | 3,702,063                              | 700.00   | 51.78                                |   |                        |   |

1. For conservatism, facility emissions were set to the PDE maximum thresholds in Section B1 (i.e., 50, 100, 250 tpy) unless further analysis was needed to evaluate 20D applicability.

2. Emissions from facilities within 2 km of another site, as determined by a review of the coordinates when sorted by distance from the King site, were grouped together when completing the 20D screening.

**Table D-2. Modeling Data for Southern Natural Gas - Wrens**

| Stack ID | Model ID | UTM East                   | UTM North                  | Elevation | NO <sub>x</sub><br>Emissions | Height | Diam. | Vel.  | Temp.  |
|----------|----------|----------------------------|----------------------------|-----------|------------------------------|--------|-------|-------|--------|
|          |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |           |                              |        |       |       |        |
| C01S     | SNGW01   | 368.33                     | 3,679.75                   | 144.80    | 2.47E+00                     | 5.18   | 0.25  | 36.60 | 799.80 |
| C02S     | SNGW02   | 368.34                     | 3,679.75                   | 144.80    | 2.47E+00                     | 5.18   | 0.25  | 36.60 | 799.80 |
| C03S     | SNGW03   | 368.35                     | 3,679.76                   | 144.80    | 5.00E+00                     | 4.88   | 0.29  | 52.70 | 866.50 |
| C05S     | SNGW05   | 368.46                     | 3,679.75                   | 144.80    | 8.84E-01                     | 11.28  | 1.07  | 12.80 | 732.00 |

**Table D-3. Modeling Data for KaMin Wrens - Main**

| Stack ID | Model ID | UTM East                   | UTM North                  | Elevation | NO <sub>x</sub><br>Emissions | Height | Diam. | Vel.  | Temp.  |
|----------|----------|----------------------------|----------------------------|-----------|------------------------------|--------|-------|-------|--------|
|          |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |           |                              |        |       |       |        |
| 202S     | KMWM202S | 369.06                     | 3,682.52                   | 137.46    | 1.43E+00                     | 4.88   | 0.26  | 4.57  | 327.59 |
| 378S     | KMWM378S | 369.06                     | 3,682.52                   | 137.46    | 3.57E+01                     | 29.57  | 1.83  | 10.06 | 386.48 |
| 431S     | KMWM431S | 369.06                     | 3,682.52                   | 137.46    | 1.64E+01                     | 15.85  | 1.07  | 3.66  | 327.59 |
| 501S     | KMWM501S | 369.06                     | 3,682.52                   | 137.46    | 2.74E+00                     | 11.58  | 0.61  | 0.91  | 327.59 |
| 52S      | KMWM52S  | 369.06                     | 3,682.52                   | 137.46    | 1.83E+01                     | 22.86  | 1.34  | 60.96 | 372.04 |
| 62S      | KMWM62S  | 369.06                     | 3,682.52                   | 137.46    | 2.56E+01                     | 22.86  | 1.43  | 63.09 | 372.04 |
| GG1S     | KMWMGG1S | 369.06                     | 3,682.52                   | 137.46    | 2.31E+02                     | 3.35   | 0.26  | 4.57  | 327.59 |

**Table D-4. Modeling Data for Plant Washington**

| Stack ID | Model ID | UTM East                   | UTM North                  | Elevation | NO <sub>x</sub><br>Emissions | Height | Diam. | Vel.  | Temp.  |
|----------|----------|----------------------------|----------------------------|-----------|------------------------------|--------|-------|-------|--------|
|          |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |           |                              |        |       |       |        |
| S1       | PWS1     | 337.09                     | 3,659.82                   | 94.00     | 4.18E+01                     | 137.16 | 9.14  | 18.55 | 333.00 |
| S45      | PWS45    | 337.41                     | 3,659.77                   | 94.00     | 2.42E+00                     | 32.43  | 1.52  | 19.81 | 408.00 |

**Table D-5. Modeling Data for International Flavors and Fragrances**

| Stack ID | Model ID | UTM East                   | UTM North                  | Elevation | NO <sub>x</sub><br>Emissions | Height | Diam. | Vel. | Temp.  |
|----------|----------|----------------------------|----------------------------|-----------|------------------------------|--------|-------|------|--------|
|          |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |           |                              |        |       |      |        |
| B01      | IFFB01   | 410.51                     | 3,688.70                   | 55        | 2.52E-01                     | 9.14   | 0.66  | 0.58 | 449.82 |
| B02      | IFFB02   | 410.51                     | 3,688.70                   | 55        | 5.11E-01                     | 9.14   | 0.66  | 0.58 | 449.82 |
| B03      | IFFB03   | 410.51                     | 3,688.70                   | 55        | 5.11E-01                     | 9.14   | 0.66  | 0.58 | 449.82 |

**Table D-6. Modeling Data for Augusta Newsprint Co.**

| Stack ID | Model ID | UTM East<br>(NAD83<br>Zone 17)<br>(km) | UTM North<br>(NAD83<br>Zone 17)<br>(km) | Elevation<br>(m) | NO <sub>x</sub><br>Emissions<br>(g/s) | Height<br>(m) | Diam.<br>(m) | Vel.<br>(m/s) | Temp.<br>(K) |
|----------|----------|--|---|------------------|---------------------------------------|---------------|--------------|---------------|--------------|
| S009     | ANCS009  | 411.04                                 | 3,688.94                                | 55.00            | 1.11E+01                              | 42.67         | 2.90         | 11.83         | 338.71       |
| S001     | ANCS001  | 411.04                                 | 3,688.94                                | 55.00            | 4.30E-01                              | 36.88         | 2.13         | 14.19         | 588.15       |

**Table D-7. Modeling Data for Olin Corporation Augusta Plant**

| Stack ID | Model ID | UTM East<br>(NAD83<br>Zone 17)<br>(km) | UTM North<br>(NAD83<br>Zone 17)<br>(km) | Elevation<br>(m) | NO <sub>x</sub><br>Emissions<br>(g/s) | Height<br>(m) | Diam.<br>(m) | Vel.<br>(m/s) | Temp.<br>(K) |
|----------|----------|--|---|------------------|---------------------------------------|---------------|--------------|---------------|--------------|
| E05A     | OCOE05A  | 411.64                                 | 3,689.88                                | 52.00            | 2.11E-01                              | 11.28         | 0.61         | 10.06         | 422.04       |
| E06A     | OCOE06A  | 411.64                                 | 3,689.88                                | 52.00            | 2.11E-01                              | 11.28         | 0.61         | 10.06         | 422.04       |

**Table D-8. Modeling Data for West Fraser Augusta Mill**

| Stack ID | Model ID | UTM East<br>(NAD83<br>Zone 17)<br>(km) | UTM North<br>(NAD83<br>Zone 17)<br>(km) | Elevation<br>(m) | NO <sub>x</sub><br>Emissions<br>(g/s) | Height<br>(m) | Diam.<br>(m) | Vel.<br>(m/s) | Temp.<br>(K) |
|----------|----------|--|---|------------------|---------------------------------------|---------------|--------------|---------------|--------------|
| KD01     | WFLKD01  | 410.42                                 | 3,688.50                                | 48.77            | 1.15E-01                              | 8.99          | 0.53         | 5.18          | 394.26       |
| KD02     | WFLKD02  | 410.42                                 | 3,688.50                                | 48.77            | 2.29E-01                              | 9.14          | 0.53         | 5.18          | 394.26       |
| KD03     | WFLKD03  | 410.42                                 | 3,688.50                                | 48.77            | 3.78E-01                              | 9.14          | 0.53         | 5.18          | 394.26       |

**Table D-9. Modeling Data for Deerfield Tissues, LLC**

| Stack ID | Model ID | UTM East<br>(NAD83<br>Zone 17)<br>(km) | UTM North<br>(NAD83<br>Zone 17)<br>(km) | Elevation<br>(m) | NO <sub>x</sub><br>Emissions<br>(g/s) | Height<br>(m) | Diam.<br>(m) | Vel.<br>(m/s) | Temp.<br>(K) |
|----------|----------|--|---|------------------|---------------------------------------|---------------|--------------|---------------|--------------|
| B02      | DEERB02  | 411.06                                 | 3,687.06                                | 44.20            | 2.22E-01                              | 4.88          | 1.14         | 15.18         | 463.71       |

Table D-10. Modeling Data for International Paper - Augusta Mill

| Stack ID | Model ID | UTM East                   | UTM North                  | Elevation | NO <sub>x</sub><br>Emissions | Height | Diam. | Vel.  | Temp.  |
|----------|----------|----------------------------|----------------------------|-----------|------------------------------|--------|-------|-------|--------|
|          |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |           |                              |        |       |       |        |
| LK1      | IPALK1   | 410.98                     | 3,687.39                   | 48.16     | 2.71E+00                     | 61.57  | 1.73  | 4.88  | 349.26 |
| LK2      | IPALK2   | 410.98                     | 3,687.39                   | 48.16     | 4.88E+00                     | 64.62  | 1.56  | 14.94 | 340.93 |
| PB1      | IPAPB1   | 410.98                     | 3,687.39                   | 48.16     | 2.65E+01                     | 60.90  | 2.23  | 18.50 | 331.48 |
| PB2      | IPAPB2   | 410.98                     | 3,687.39                   | 48.16     | 2.90E+01                     | 60.90  | 2.44  | 25.15 | 506.48 |
| PB3      | IPAPB3   | 410.98                     | 3,687.39                   | 48.16     | 1.69E+01                     | 60.96  | 3.05  | 17.07 | 444.26 |
| RB2      | IPARB2   | 410.98                     | 3,687.39                   | 48.16     | 4.01E+00                     | 60.96  | 2.44  | 24.38 | 428.71 |
| RB3      | IPARB3   | 410.98                     | 3,687.39                   | 48.16     | 1.89E+01                     | 64.01  | 3.00  | 36.58 | 473.15 |
| RLB      | IPARLB   | 410.98                     | 3,687.39                   | 48.16     | 5.75E+00                     | 36.58  | 1.52  | 12.92 | 477.59 |
| ST2      | IPAST2   | 410.98                     | 3,687.39                   | 48.16     | 7.36E-02                     | 59.44  | 1.05  | 16.92 | 338.71 |
| ST3      | IPAST3   | 410.98                     | 3,687.39                   | 48.16     | 3.10E-01                     | 64.01  | 1.83  | 6.10  | 347.04 |
| PAPR     | IPAPAPR  | 410.98                     | 3,687.39                   | 48.16     | 4.93E-01                     | 17.74  | 1.04  | 8.42  | 497.59 |

Table D-11. Modeling Data for PCS Nitrogen Fertilizer

| Stack ID | Model ID | UTM East                   | UTM North                  | Elevation | NO <sub>x</sub><br>Emissions | Height | Diam. | Vel.  | Temp.  |
|----------|----------|----------------------------|----------------------------|-----------|------------------------------|--------|-------|-------|--------|
|          |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |           |                              |        |       |       |        |
| ST11     | PCSST11  | 413.51                     | 3,700.70                   | 37.80     | 1.62E+01                     | 32.92  | 4.24  | 12.80 | 455.37 |
| ST18     | PCSST18  | 413.51                     | 3,700.70                   | 37.80     | 5.73E+01                     | 41.91  | 0.98  | 31.70 | 309.26 |
| ST19     | PCSST19  | 413.51                     | 3,700.70                   | 37.80     | 1.64E+01                     | 21.03  | 1.52  | 31.70 | 446.48 |
| ST20     | PCSST20  | 413.51                     | 3,700.70                   | 37.80     | 1.38E-02                     | 3.66   | 0.30  | 0.61  | 294.26 |
| ST21     | PCSST21  | 413.51                     | 3,700.70                   | 37.80     | 9.16E-01                     | 38.10  | 1.52  | 3.17  | 422.04 |
| ST24     | PCSST24  | 413.51                     | 3,700.70                   | 37.80     | 3.48E+00                     | 31.70  | 1.52  | 1.58  | 438.71 |
| ST36     | PCSST36  | 413.51                     | 3,700.70                   | 37.80     | 3.22E-03                     | 30.48  | 0.08  | 5.64  | 422.04 |

Table D-12. Modeling Data for DSM Resins U.S. Inc. and DSM Chemicals North America, Inc.

| Stack ID | Model ID | UTM East                   | UTM North                  | Elevation | NO <sub>x</sub><br>Emissions | Height | Diam. | Vel.  | Temp.  |
|----------|----------|----------------------------|----------------------------|-----------|------------------------------|--------|-------|-------|--------|
|          |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |           |                              |        |       |       |        |
| F001     | DSMRF001 | 413.70                     | 3,701.99                   | 39.62     | 9.98E-02                     | 10.06  | 0.51  | 5.79  | 752.59 |
| F002     | DSMRF002 | 413.70                     | 3,701.99                   | 39.62     | 1.40E-01                     | 10.06  | 0.76  | 5.79  | 752.59 |
| S014     | DSMCS014 | 413.73                     | 3,702.06                   | 39.62     | 2.13E+01                     | 67.06  | 3.58  | 15.15 | 422.04 |
| S029     | DSMCS029 | 413.73                     | 3,702.06                   | 39.62     | 1.24E-01                     | 10.97  | 0.46  | 8.84  | 588.71 |
| S031     | DSMCS031 | 413.73                     | 3,702.06                   | 39.62     | 3.34E-01                     | 45.72  | 0.61  | 4.27  | 672.04 |
| S002     | DSMCS002 | 413.73                     | 3,702.06                   | 39.62     | 8.24E-01                     | 24.38  | 1.07  | 7.32  | 449.82 |
| S012     | DSMCS012 | 413.73                     | 3,702.06                   | 39.62     | 3.34E-02                     | 19.81  | 0.61  | 4.27  | 672.04 |
| S017     | DSMCS017 | 413.73                     | 3,702.06                   | 39.62     | 4.99E-02                     | 23.01  | 0.66  | 4.88  | 672.04 |
| S020     | DSMCS020 | 413.73                     | 3,702.06                   | 39.62     | 5.61E+00                     | 24.38  | 1.37  | 15.09 | 449.82 |
| S07A     | DSMCS07A | 413.73                     | 3,702.06                   | 39.62     | 1.61E+00                     | 49.38  | 0.82  | 15.85 | 656.48 |
| S18A     | DSMCS18A | 413.73                     | 3,702.06                   | 39.62     | 2.30E+00                     | 38.10  | 0.91  | 19.75 | 449.82 |

Table D-13. Hourly NO<sub>2</sub> Regional Source Inventory - Georgia Major and Minor Source Review

| SOURCE DESCRIPTION                                   | County     | UTM East<br>(NAD83<br>Zone 17)<br>(m) | UTM North<br>(NAD83<br>Zone 17)<br>(m) | Potential<br>Facility NO <sub>x</sub><br>Emissions <sup>1</sup><br>(tpy) | Distance<br>from<br>Facility<br>(km) | W/in 2 km<br>of another<br>facility? | NO <sub>x</sub> 20D | NO <sub>x</sub><br>Exclude<br>Per 20D<br>Rule? <sup>2</sup> |
|--|------------|---------------------------------------|--|--|--------------------------------------|--------------------------------------|---------------------|---|
| <b>Georgia Sources</b>                               |            |                                       |  |  |                                      |                                      |                     |   |
| Continental Commercial Products Llc-Glit Div ✓       | Jefferson  | 371,893                               | 3,675,464                              | 28.44  | 4.75                                 | No                                   | N/A                 | No  |
| Mestek, Inc. (dba Air Balance, Inc.) ✓               | Jefferson  | 369,624                               | 3,673,972                              | 3.30   | 4.30                                 | No                                   | N/A                 | No  |
| Thiele Kaolin Co Reedy Creek Div ✓                   | Glascocok  | 366,517                               | 3,682,647                              | 61.07  | 13.30                                | No                                   | 266.10              | Yes   |
| Southern Natural Gas ✓                               | Jefferson  | 368,097                               | 3,679,656                              | 469.90   | 9.92                                 | No                                   | 198.46              | No  |
| KaMin - Wrens Calcine Plant ✓                        | Jefferson  | 366,224                               | 3,680,413                              | 92.88  | 11.51                                | No                                   | 230.18              | Yes   |
| KaMin - Wrens Main ✓                                 | Jefferson  | 369,361                               | 3,682,652                              | 250.00   | 12.30                                | No                                   | 245.99              | No  |
| Thermo King Corporation ✓                            | Jefferson  | 367,098                               | 3,651,540                              | 16.56  | 19.95                                | No                                   | 399.09              | Yes   |
| US Army Signal Ctr. & Ft. Gordon ✓                   | Richmond   | 391,250                               | 3,697,629                              | 318.58   | 32.78                                | No                                   | 655.56              | Yes   |
| Erdene Materials Corporation - Dearing Plant ✓       | McDuffie   | 371,879                               | 3,698,091                              | 6.44   | 27.34                                | No                                   | 546.86              | Yes   |
| Georgia Vitrified Brick & Clay Ltd ✓                 | Columbia   | 379,728                               | 3,697,659                              | 1.23   | 27.86                                | No                                   | 557.26              | Yes   |
| Unimin Corporation - Hephzibah ✓                     | Richmond   | 395,896                               | 3,686,999                              | 49.50  | 28.50                                | No                                   | 569.93              | Yes   |
| Augusta-Richmond County Deans Bridge Road Landfill ✓ | Richmond   | 394,215                               | 3,690,716                              | 40.33  | 29.51                                | No                                   | 590.17              | Yes   |
| Georgia DOT - Davisboro Asphalt Plant ✓              | Washington | 350,960                               | 3,651,100                              | 8.51   | 29.15                                | No                                   | 582.94              | Yes   |
| ASTA, Inc. ✓   | Burke      | 404,618                               | 3,663,313                              | -  | 32.99                                | No                                   | 659.71              | Yes   |
| Farmers Gin & Storage ✓                              | Jefferson  | 369,313                               | 3,636,718                              | 2.50   | 34.18                                | -                                    | 683.69              | Yes   |
| Fulgham Industries, Inc. ✓                           | Jefferson  | 368,699                               | 3,635,941                              | -  | 35.02                                | Yes                                  | 700.37              | Yes   |
| Battle Lumber Company Inc. ✓                         | Jefferson  | 369,319                               | 3,636,323                              | 59.07  | 34.58                                | -                                    | 691.53              | Yes   |
| National Security Agency ✓                           | Richmond   | 408,130                               | 3,704,261                              | 49.50  | 48.92                                | No                                   | 978.44              | Yes   |
| Tin Inc. dba Temple-Inland ✓                         | McDuffie   | 362,547                               | 3,703,842                              | 453.99   | 34.55                                | No                                   | 690.94              | Yes   |
| TRW Warrenton Foundry ✓                              | Warren     | 346,921                               | 3,697,931                              | 25.00  | 37.31                                | No                                   | 746.19              | Yes   |
| Martin Marietta Aggregates - Warrenton Rock Quarry ✓ | Warren     | 347,946                               | 3,695,382                              | -  | 34.76                                | No                                   | 695.29              | Yes   |
| HP Pelzer - Thomson ✓                                | McDuffie   | 357,093                               | 3,702,062                              | 3.26   | 34.89                                | Yes                                  | 697.71              | Yes   |
| Shaw Industries Group, Inc. - Plant 22/89 ✓          | McDuffie   | 356,807                               | 3,701,993                              | 42.90  | 34.95                                | -                                    | 699.03              | Yes   |
| Mundy, Inc. ✓  | Burke      | 405,858                               | 3,661,689                              | 100.00   | 34.58                                | -                                    | 691.69              | Yes   |
| FIAMM Technologies Inc. ✓                            | Burke      | 405,633                               | 3,663,396                              | -  | 33.96                                | Yes                                  | 679.13              | Yes   |
| Georgia Iron Works Co ✓                              | Columbia   | 389,655                               | 3,702,550                              | 0.15   | 36.14                                | No                                   | 722.71              | Yes   |
| Plant Washington ✓                                   | Washington | 337,088                               | 3,659,816                              | 1,345.00   | 37.05                                | No                                   | 740.94              | No  |
| Georgia-Pacific Corp Chip-n-Saw Div. Warrenton ✓     | Warren     | 346,957                               | 3,697,767                              | 100.00   | 37.16                                | No                                   | 743.30              | Yes   |
| Dogwood Quarry ✓                                     | Columbia   | 383,226                               | 3,709,658                              | 100.00   | 40.36                                | No                                   | 807.19              | Yes   |
| Hanson Aggregates Southeast LLC - Sparta Quarry ✓    | Hancock    | 322,678                               | 3,681,213                              | 100.00   | 50.89                                | No                                   | 1,017.83            | Yes   |
| American Concrete - Gracewood ✓                      | Richmond   | 402,911                               | 3,693,445                              | 100.00   | 37.96                                | No                                   | 759.13              | Yes   |
| Jebco, Inc. ✓  | Warren     | 343,844                               | 3,697,225                              | 100.00   | 39.00                                | -                                    | -                   | -   |
| Solvay Advanced Polymers - Augusta ✓                 | Richmond   | 405,656                               | 3,692,766                              | 250.00   | 39.81                                | No                                   | 779.96              | Yes   |
| Omni Oxide Corporation ✓                             | Richmond   | 405,926                               | 3,692,761                              | 100.00   | 40.03                                | -                                    | -                   | -   |
| US Battery Mfg. Co of Augusta ✓                      | Richmond   | 405,926                               | 3,692,761                              | 100.00   | 40.03                                | No                                   | 800.67              | Yes   |
| Martin Marietta Aggregates ✓                         | Columbia   | 385,159                               | 3,709,414                              | 100.00   | 40.68                                | -                                    | -                   | -   |
| Augusta Ready Mix, Inc. ✓                            | Columbia   | 387,150                               | 3,706,000                              | 100.00   | 38.17                                | -                                    | -                   | -   |
| Reeves Construction Co. ✓                            | Columbia   | 384,120                               | 3,709,694                              | 100.00   | 40.64                                | No                                   | 813.68              | Yes   |
| EKA Chemicals - Augusta GP Plant ✓                   | Richmond   | 407,594                               | 3,695,445                              | 100.00   | 42.92                                | -                                    | -                   | -   |
| Sample & Son Const and Demolition LF ✓               | Columbia   | 382,931                               | 3,710,318                              | 100.00   | 40.92                                | -                                    | -                   | -   |
| The Procter & Gamble Manufacturing Company ✓         | Richmond   | 406,562                               | 3,694,781                              | 100.00   | 41.70                                | -                                    | -                   | -   |
| Leeco Corporation ✓                                  | Columbia   | 394,372                               | 3,705,331                              | 100.00   | 40.92                                | No                                   | 818.44              | Yes   |
| Milliken & Company Kingsley Plant ✓                  | McDuffie   | 360,222                               | 3,710,799                              | 100.00   | 41.88                                | No                                   | 837.58              | Yes   |

Table D-13. Hourly NO<sub>2</sub> Regional Source Inventory - Georgia Major and Minor Source Review

| SOURCE DESCRIPTION   | County     | UTM East<br>(NAD83<br>Zone 17)<br>(m) | UTM North<br>(NAD83<br>Zone 17)<br>(m) | Potential<br>Facility NO <sub>x</sub><br>Emissions <sup>1</sup><br>(tpy) | Distance<br>from<br>Facility<br>(km) | W/in 2 km<br>of another<br>facility? | NO <sub>x</sub> 20D | NO <sub>x</sub><br>Exclude<br>Per 20D<br>Rule? <sup>2</sup> |
|--|------------|---------------------------------------|--|--|--------------------------------------|--------------------------------------|---------------------|---|
| Pryofflex Augusta LLC ✓                                      | Richmond   | 411,350                               | 3,689,329                              | 100.00   | 43.08                                |                                      |                     |   |
| West Fraser - Augusta Lumber Mill ✓                          | Richmond   | 410,417                               | 3,688,499                              | 22.79  | 41.88                                |                                      |                     |   |
| Deerfield Tissue, LLC ✓                                      | Richmond   | 411,063                               | 3,687,063                              | 9.64   | 41.89                                |                                      |                     |   |
| Farmers & Truckers Biodiesel LLC ✓                           | Richmond   | 410,501                               | 3,688,406                              | -  | 41.92                                |                                      |                     |   |
| International Paper - Augusta Mill ✓                         | Richmond   | 411,198                               | 3,688,017                              | 4,761.60   | 42.39                                | Yes                                  | 861.53              | Yes   |
| International Flavors and Fragrances ✓                       | Richmond   | 410,509                               | 3,688,702                              | 34.78  | 42.05                                |                                      |                     |   |
| PVS Technologies, Inc. ✓                                     | Richmond   | 411,101                               | 3,689,082                              | -  | 42.75                                |                                      |                     |   |
| Augusta Newsprint Co ✓                                       | Richmond   | 411,043                               | 3,688,936                              | 499.63   | 42.63                                |                                      |                     |   |
| Olin Corporation Augusta Plant ✓                             | Richmond   | 411,642                               | 3,689,877                              | 18.31  | 43.58                                |                                      |                     |   |
| Lafarge Building Materials, Inc. - Martinez Concrete Plant ✓ | Columbia   | 395,868                               | 3,705,928                              | 100.00   | 42.24                                | No                                   | 844.75              | Yes   |
| Finnchem USA, Inc ✓  | Richmond   | 410,028                               | 3,691,245                              | 100.00   | 42.77                                | Yes                                  | 855.44              | Yes   |
| Garrett Aviation Services ✓                                  | Richmond   | 409,383                               | 3,692,743                              | 100.00   | 42.95                                |                                      |                     |   |
| Occidental Chemical Corp ✓                                   | Richmond   | 408,146                               | 3,695,572                              | 250.00   | 43.45                                |                                      |                     |   |
| Prayon Inc ✓   | Richmond   | 407,850                               | 3,695,193                              | 100.00   | 42.99                                |                                      |                     |   |
| Keebler Foods Company ✓                                      | Richmond   | 408,029                               | 3,695,528                              | 100.00   | 43.33                                | Yes                                  | 868.96              | Yes   |
| Augusta Select Tissue, LLC ✓                                 | Richmond   | 408,349                               | 3,695,293                              | 100.00   | 43.46                                |                                      |                     |   |
| Kendall Co Augusta Plant ✓                                   | Richmond   | 408,434                               | 3,695,438                              | 100.00   | 43.61                                |                                      |                     |   |
| Georgia-Pacific Corporation 1 LLC ✓                          | Richmond   | 407,912                               | 3,697,238                              | 100.00   | 44.23                                |                                      |                     |   |
| American Concrete - Martinez ✓                               | Richmond   | 398,414                               | 3,706,473                              | 100.00   | 44.14                                | No                                   | 882.77              | Yes   |
| Cobb EMC - Sandersville ✓                                    | Washington | 331,802                               | 3,652,098                              | 76.60  | 44.76                                |                                      |                     |   |
| Burgess Pigment Company, Sandersville Plant ✓                | Washington | 329,707                               | 3,649,412                              | 79.58  | 47.80                                |                                      |                     |   |
| Thiele Kaolin Co. - Sandersville Plant ✓                     | Washington | 330,686                               | 3,649,165                              | 211.71   | 47.04                                | No                                   | 895.10              | Yes   |
| Bulk Chemical Services, LLC ✓                                | Washington | 332,077                               | 3,649,008                              | -  | 45.89                                |                                      |                     |   |
| KaMin - Sandersville ✓                                       | Washington | 329,681                               | 3,649,059                              | 250.00   | 47.99                                |                                      |                     |   |
| Thermal Ceramics ✓   | Richmond   | 407,079                               | 3,700,074                              | 10.38  | 45.35                                |                                      |                     |   |
| Boral Bricks #6 Augusta Plt ✓                                | Richmond   | 408,218                               | 3,699,805                              | 30.66  | 46.05                                |                                      |                     |   |
| USVA Veterans Admin H ✓                                      | Richmond   | 404,725                               | 3,703,684                              | 63.97  | 46.09                                |                                      |                     |   |
| Augusta Hospital, LLC ✓                                      | Richmond   | 405,418                               | 3,703,585                              | 100.00   | 46.50                                |                                      |                     |   |
| University Hospital ✓  | Richmond   | 405,696                               | 3,703,934                              | 98.07  | 46.95                                | Yes                                  | 906.97              | Yes   |
| Transflo Terminal Services, Inc. ✓                           | Richmond   | 406,412                               | 3,702,582                              | -  | 46.52                                |                                      |                     |   |
| Southern Crushers, Inc. ✓                                    | Richmond   | 408,492                               | 3,701,078                              | 86.63  | 47.08                                |                                      |                     |   |
| Mabus Brothers Construction Company ✓                        | Richmond   | 408,492                               | 3,701,078                              | 48.20  | 47.08                                |                                      |                     |   |
| FPL Food, LLC ✓  | Richmond   | 409,291                               | 3,701,655                              | 68.14  | 48.06                                |                                      |                     |   |
| Crawford Kitchens, Inc ✓                                     | Columbia   | 398,903                               | 3,708,252                              | 25.00  | 45.87                                | Yes                                  | 917.39              | Yes   |
| Martin Marietta Aggregates - Richmond County ✓               | Richmond   | 398,434                               | 3,709,133                              | 100.00   | 46.33                                |                                      |                     |   |
| KGEN Sandersville LLC ✓                                      | Washington | 326,300                               | 3,665,800                              | 724.00   | 46.45                                | Yes                                  | 928.96              | Yes   |
| Paul Creek Energy Center ✓                                   | Washington | 325,635                               | 3,664,932                              | 100.00   | 47.21                                |                                      |                     |   |
| Imerys Clays, Inc. Sandersville Calcine Plant ✓              | Washington | 330,657                               | 3,649,161                              | 154.96   | 47.07                                | Yes                                  | 941.42              | Yes   |
| Kentucky-Tennessee Clay Company (Plts 51 & 52) ✓             | Washington | 329,474                               | 3,648,637                              | 100.00   | 48.36                                |                                      |                     |   |
| World Color Printing (USA) II Corp. ✓                        | Columbia   | 396,085                               | 3,711,586                              | 100.00   | 47.16                                |                                      |                     |   |
| US Battery Manufacturing Company ✓                           | Columbia   | 395,518                               | 3,712,345                              | 100.00   | 47.54                                | Yes                                  | 943.24              | Yes   |
| Greenfield Industries, Inc. ✓                                | Columbia   | 396,501                               | 3,710,870                              | 100.00   | 46.76                                |                                      |                     |   |
| Sandersville Ethanol, LLC ✓                                  | Washington | 328,546                               | 3,651,211                              | 100.00   | 48.09                                | No                                   | 961.75              | Yes   |
| Elanco Augusta Technology Center ✓                           | Richmond   | 412,216                               | 3,698,452                              | 100.00   | 48.43                                | Yes                                  | 968.69              | Yes   |
| The Nutrasweet Kelco Co ✓                                    | Richmond   | 412,217                               | 3,698,455                              | 250.00   | 48.44                                |                                      |                     |   |
| American Concrete - Downtown ✓                               | Richmond   | 409,105                               | 3,704,324                              | 100.00   | 49.68                                |                                      |                     |   |
| Boral Bricks, Inc. - Plants 3 & 5 ✓                          | Richmond   | 409,495                               | 3,703,909                              | 100.00   | 49.69                                |                                      |                     |   |
| Medical College of Georgia ✓                                 | Richmond   | 408,094                               | 3,703,760                              | 100.00   | 48.55                                |                                      |                     |   |
| Modern Welding Company of Georgia ✓                          | Richmond   | 409,380                               | 3,704,826                              | 100.00   | 50.22                                | Yes                                  | 993.58              | Yes   |
| Potters Industries, Inc. - Q-Cel Facility ✓                  | Richmond   | 409,380                               | 3,704,826                              | 100.00   | 50.22                                |                                      |                     |   |
| Standard Textile Augusta, Inc. ✓                             | Richmond   | 407,982                               | 3,705,392                              | 100.00   | 49.60                                |                                      |                     |   |
| Industrial Metal Finishing, Inc. ✓                           | Richmond   | 409,399                               | 3,704,113                              | 100.00   | 49.76                                |                                      |                     |   |
| Top Bead Welding Services, Inc. ✓                            | Richmond   | 409,806                               | 3,702,494                              | 100.00   | 48.99                                |                                      |                     |   |
| Reeves CC Inc. - Riverwatch HMAF ✓                           | Richmond   | 403,644                               | 3,709,732                              | 100.00   | 49.90                                | Yes                                  | 998.04              | Yes   |
| Martin Marietta Materials, Inc. - Augusta Quarry ✓           | Richmond   | 404,023                               | 3,711,378                              | 100.00   | 51.43                                |                                      |                     |   |
| Kentucky-Tennessee Clay Company (Plt 53) ✓                   | Washington | 325,130                               | 3,654,389                              | 100.00   | 50.10                                |                                      |                     |   |
| Cobb EMC - Robin Springs ✓                                   | Washington | 324,916                               | 3,654,516                              | 100.00   | 50.26                                | Yes                                  | 1,002.03            | Yes   |
| Imerys Clays Inc, Deepstep Road Plant Sandersville GA ✓      | Washington | 324,393                               | 3,655,700                              | 142.87   | 50.39                                |                                      |                     |   |

Table D-13. Hourly NO<sub>2</sub> Regional Source Inventory - Georgia Major and Minor Source Review

| SOURCE DESCRIPTION                               | County     | UTM East<br>(NAD83<br>Zone 17)<br>(m) | UTM North<br>(NAD83<br>Zone 17)<br>(m) | Potential<br>Facility NO <sub>x</sub><br>Emissions <sup>1</sup><br>(tpy) | Distance<br>from<br>Facility<br>(km) | W/in 2 km<br>of another<br>facility? | NO <sub>x</sub> 20D | NO <sub>x</sub><br>Exclude<br>Per 20D<br>Rule? <sup>2</sup> |
|--|------------|---------------------------------------|--|--|--------------------------------------|--------------------------------------|---------------------|---|
| General Chemical Corp., Augusta Plant ✓          | Richmond   | 413,066                               | 3,700,330                              | -  | 50.22                                |                                      |                     |   |
| PCS Nitrogen Fertilizer Inc ✓                    | Richmond   | 413,506                               | 3,700,701                              | 4,096.56   | 50.79                                | Yes                                  | 1,004.33            | Yes   |
| DSM Resins U.S. Inc ✓                            | Richmond   | 413,697                               | 3,701,994                              | 10.42  | 51.72                                |                                      |                     |   |
| DSM Chemicals North America, Inc. ✓              | Richmond   | 413,727                               | 3,702,063                              | 700.00   | 51.78                                |                                      |                     |   |
| Pollard Lumber Co ✓                              | Columbia   | 382,225                               | 3,720,504                              | 100.00   | 50.69                                | No                                   | 1,013.89            | Yes   |
| Martin Marietta Aggregates - Camak Rock Quarry ✓ | Warren     | 347,924                               | 3,716,391                              | 100.00   | 51.83                                | No                                   | 1,036.51            | Yes   |
| Burke County Concrete #29                        | Burke      | 428,354                               | 3,667,098                              | -  | 55.99                                |                                      |                     |   |
| Southern Nuclear Operating Co Plant Vogtle       | Burke      | 428,854                               | 3,667,231                              | 101.00   | 56.48                                | Yes                                  | 1,119.81            | Yes   |
| Shaw Group Inc - Vogtle Units 3 & 4              | Burke      | 428,974                               | 3,667,282                              | 47.12  | 56.60                                |                                      |                     |   |
| Southern Nuclear - Allen B. Wilson Plant         | Burke      | 430,251                               | 3,665,827                              | 189.85   | 57.98                                |                                      |                     |   |
| Georgia Industrial Minerals, Inc.                | Washington | 316,547                               | 3,655,890                              | 100.00   | 57.88                                | No                                   | 1,157.55            | Yes   |
| Corridor Mining LLC - Culverton Quarry ✓         | Hancock    | 315,971                               | 3,683,610                              | 100.00   | 57.96                                | No                                   | 1,159.11            | Yes   |
| Washington County Power LLC                      | Washington | 314,748                               | 3,663,978                              | 250.00   | 58.13                                | No                                   | 1,162.62            | Yes   |
| MI Metals, Inc. - Millen                         | Jenkins    | 414,002                               | 3,629,861                              | 2.40   | 58.28                                | No                                   | 1,165.52            | Yes   |

1. For conservatism, facility emissions were set to the PTE maximum thresholds in Section B1 (i.e., 50, 100, 250 tpy) unless further analysis was needed to evaluate 20D applicability.

2. Emissions from facilities within 2 km of another site, as determined by a review of the coordinates when sorted by distance from the King site, were grouped together when completing the 20D screening.



**Table D-14. Modeling Data for Southern Natural Gas - Wrens**

| Stack ID | Model ID | UTM East                   | UTM North                  | Elevation | NO <sub>x</sub><br>Emissions | Height | Diam. | Vel.  | Temp.  |
|----------|----------|----------------------------|----------------------------|-----------|------------------------------|--------|-------|-------|--------|
|          |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |           |                              |        |       |       |        |
| C01S     | SNGW01   | 368.33                     | 3,679.75                   | 144.80    | 2.47E+00                     | 5.18   | 0.25  | 36.60 | 799.80 |
| C02S     | SNGW02   | 368.34                     | 3,679.75                   | 144.80    | 2.47E+00                     | 5.18   | 0.25  | 36.60 | 799.80 |
| C03S     | SNGW03   | 368.35                     | 3,679.76                   | 144.80    | 5.00E+00                     | 4.88   | 0.29  | 52.70 | 866.50 |
| C05S     | SNGW05   | 368.46                     | 3,679.75                   | 144.80    | 8.84E-01                     | 11.28  | 1.07  | 12.80 | 732.00 |

**Table D-15. Modeling Data for KaMin Wrens - Main**

| Stack ID | Model ID | UTM East                   | UTM North                  | Elevation | NO <sub>x</sub><br>Emissions | Height | Diam. | Vel.  | Temp.  |
|----------|----------|----------------------------|----------------------------|-----------|------------------------------|--------|-------|-------|--------|
|          |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |           |                              |        |       |       |        |
| 202S     | KMWM202S | 369.06                     | 3,682.52                   | 137.46    | 1.43E+00                     | 4.88   | 0.26  | 4.57  | 327.59 |
| 378S     | KMWM378S | 369.06                     | 3,682.52                   | 137.46    | 3.57E+01                     | 29.57  | 1.83  | 10.06 | 386.48 |
| 431S     | KMWM431S | 369.06                     | 3,682.52                   | 137.46    | 1.64E+01                     | 15.85  | 1.07  | 3.66  | 327.59 |
| 501S     | KMWM501S | 369.06                     | 3,682.52                   | 137.46    | 2.74E+00                     | 11.58  | 0.61  | 0.91  | 327.59 |
| 52S      | KMWM52S  | 369.06                     | 3,682.52                   | 137.46    | 1.83E+01                     | 22.86  | 1.34  | 60.96 | 372.04 |
| 62S      | KMWM62S  | 369.06                     | 3,682.52                   | 137.46    | 2.56E+01                     | 22.86  | 1.43  | 63.09 | 372.04 |
| GG1S     | KMWMGG1S | 369.06                     | 3,682.52                   | 137.46    | 2.31E+02                     | 3.35   | 0.26  | 4.57  | 327.59 |

**Table D-16. Modeling Data for Plant Washington**

| Stack ID | Model ID | UTM East                   | UTM North                  | Elevation | NO <sub>x</sub><br>Emissions | Height | Diam. | Vel.  | Temp.  |
|----------|----------|----------------------------|----------------------------|-----------|------------------------------|--------|-------|-------|--------|
|          |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |           |                              |        |       |       |        |
| S1       | PWS1     | 337.09                     | 3,659.82                   | 94.00     | 4.18E+01                     | 137.16 | 9.14  | 18.55 | 333.00 |
| S45      | PWS45    | 337.41                     | 3,659.77                   | 94.00     | 2.42E+00                     | 32.43  | 1.52  | 19.81 | 408.00 |

**Table D-17. Modeling Data for Continental Commercial Products LLC-Glit Div**

| Stack ID | Model ID | UTM East                   | UTM North                  | Elevation | NO <sub>x</sub><br>Emissions | Height | Diam. | Vel.  | Temp.  |
|----------|----------|----------------------------|----------------------------|-----------|------------------------------|--------|-------|-------|--------|
|          |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |           |                              |        |       |       |        |
| ST2      | CCPST2   | 371.89                     | 3,675.46                   | 124       | 7.12E-02                     | 10.67  | 1.83  | 11.86 | 438.71 |
| ST3      | CCPST3   | 371.89                     | 3,675.46                   | 124       | 9.49E-02                     | 10.67  | 1.83  | 11.86 | 438.71 |
| ST4      | CCPST4   | 371.89                     | 3,675.46                   | 124       | 4.75E-02                     | 10.67  | 1.83  | 11.86 | 438.71 |
| ST5      | CCPST5   | 371.89                     | 3,675.46                   | 124       | 4.75E-02                     | 10.67  | 1.83  | 11.86 | 438.71 |
| ST6      | CCPST6   | 371.89                     | 3,675.46                   | 124       | 9.88E-02                     | 10.67  | 1.83  | 11.86 | 438.71 |
| ST7      | CCPST7   | 371.89                     | 3,675.46                   | 124       | 9.88E-02                     | 10.67  | 1.83  | 11.86 | 438.71 |
| ST1      | CCPST1   | 371.89                     | 3,675.46                   | 124       | 1.09E-01                     | 10.67  | 1.83  | 11.86 | 438.71 |
| ST8      | CCPST8   | 371.89                     | 3,675.46                   | 124       | 8.77E-02                     | 10.67  | 1.83  | 11.86 | 438.71 |

**Table D-18. Modeling Data for Mestek, Inc. (dba Air Balance, Inc.)**

| Stack ID | Model ID | UTM East                   | UTM North                  | Elevation<br>(m) | NO <sub>x</sub>    | Height<br>(m) | Diam.<br>(m) | Vel.<br>(m/s) | Temp.<br>(K) |
|----------|----------|----------------------------|----------------------------|------------------|--------------------|---------------|--------------|---------------|--------------|
|          |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |                  | Emissions<br>(g/s) |               |              |               |              |
| EC1      | MESEC1   | 369.62                     | 3,673.97                   | 121              | 7.59E-02           | 9.14          | 0.61         | 2.44          | 366.48       |

Table D-19. PM<sub>10</sub>/PM<sub>2.5</sub> Regional Source Inventories - Georgia Major and Minor Source Review

| SOURCE DESCRIPTION   | County       | UTM East<br>(NAD83<br>Zone 17)<br>(m) | UTM North<br>(NAD83<br>Zone 17)<br>(m) | Potential<br>Facility<br>PM <sub>10</sub><br>Emissions <sup>1</sup><br>(tpy) | Distance<br>from<br>Facility<br>(km) | Within 2<br>km of<br>another<br>facility? | PM <sub>10</sub><br>20D | PM <sub>10</sub><br>Exclude<br>Per 20D<br>Rule? <sup>2</sup> |
|--|--------------|---------------------------------------|--|--|--------------------------------------|---|-------------------------|--|
| <b>Georgia Sources</b>                                       |              |                                       |  |  |                                      |   |                         |  |
| Continental Commercial Products Llc-Glit Div ✓               | Jefferson ✓  | 371,893                               | 3,675,464                              | 1.87   | 4.75                                 | No  | 94.92                   | Yes  |
| Mestek, Inc. (dba Air Balance, Inc.) ✓                       | Jefferson ✓  | 369,624                               | 3,673,972                              | 0.33   | 4.30                                 | No  | 86.08                   | Yes  |
| Thiele Kaolin Co Reedy Creek Div ✓                           | Glascok ✓    | 366,517                               | 3,682,647                              | 178.04   | 13.30                                | No  | 266.10                  | Yes  |
| Southern Natural Gas ✓                                       | Jefferson ✓  | 368,097                               | 3,679,656                              | 5.80   | 9.92                                 | No  | 198.46                  | Yes  |
| KaMin - Wrens Calcine Plant ✓                                | Jefferson ✓  | 366,224                               | 3,680,413                              | 144.38   | 11.51                                | No  | 230.18                  | Yes  |
| KaMin - Wrens Main ✓   | Jefferson ✓  | 369,361                               | 3,682,652                              | 222.0  | 12.30                                | No  | 245.99                  | Yes  |
| Thermo King Corporation ✓                                    | Jefferson ✓  | 367,098                               | 3,651,540                              | 1.89   | 19.95                                | No  | 399.09                  | Yes  |
| US Army Signal Ctr. & Ft. Gordon ✓                           | Richmond ✓   | 391,250                               | 3,697,629                              | 22.30  | 32.78                                | No  | 655.56                  | Yes  |
| Erdene Materials Corporation - Dearing Plant ✓               | McDuffie ✓   | 371,879                               | 3,698,091                              | 0.49   | 27.34                                | No  | 546.86                  | Yes  |
| Georgia Vitrified Brick & Clay Ltd ✓                         | Columbia ✓   | 379,728                               | 3,697,659                              | 31.21  | 27.86                                | No  | 557.26                  | Yes  |
| Unimin Corporation - Hephzibah ✓                             | Richmond ✓   | 395,896                               | 3,686,999                              | 82.37  | 28.50                                | No  | 569.93                  | Yes  |
| Augusta-Richmond County Deans Bridge Road Landfill ✓         | Richmond ✓   | 394,215                               | 3,690,716                              | 25.94  | 29.51                                | No  | 590.17                  | Yes  |
| Georgia DOT - Davisboro Asphalt Plant ✓                      | Washington ✓ | 350,960                               | 3,651,100                              | 8.92   | 29.15                                | No  | 582.94                  | Yes  |
| ASTA, Inc. ✓   | Burke ✓      | 404,618                               | 3,663,313                              | -  | 32.99                                | No  | 659.71                  | Yes  |
| Farmers Gin & Storage ✓                                      | Jefferson ✓  | 369,313                               | 3,636,718                              | 87.30  | 34.18                                | No  | 683.69                  | Yes  |
| Fulghum Industries, Inc. ✓                                   | Jefferson ✓  | 368,699                               | 3,635,941                              | 23.93  | 35.02                                | Yes                                       | 700.37                  | Yes  |
| Battle Lumber Company Inc. ✓                                 | Jefferson ✓  | 369,319                               | 3,636,323                              | 77.73  | 34.58                                | No  | 691.53                  | Yes  |
| National Security Agency ✓                                   | Richmond ✓   | 408,130                               | 3,704,261                              | 0.36   | 48.92                                | No  | 978.44                  | Yes  |
| Tin Inc. dba Temple-Inland ✓                                 | McDuffie ✓   | 362,547                               | 3,703,842                              | 294.69   | 34.55                                | No  | 690.94                  | Yes  |
| TRW Warrenton Foundry ✓                                      | Warren ✓     | 346,921                               | 3,697,931                              | 100.00   | 37.31                                | No  | 746.19                  | Yes  |
| Martin Marietta Aggregates - Warrenton Rock Quarry ✓         | Warren ✓     | 347,946                               | 3,695,382                              | 98.10  | 34.76                                | No  | 695.29                  | Yes  |
| HP Pelzer - Thomson ✓  | McDuffie ✓   | 357,093                               | 3,702,062                              | 22.02  | 34.89                                | Yes                                       | 697.71                  | Yes  |
| Shaw Industries Group, Inc. - Plant 22/89 ✓                  | McDuffie ✓   | 356,807                               | 3,701,993                              | 31.79  | 34.95                                | No  | 699.03                  | Yes  |
| Mundy, Inc. ✓  | Burke ✓      | 405,858                               | 3,661,689                              | 100.00   | 34.58                                | No  | 691.69                  | Yes  |
| FIAMM Technologies Inc. ✓                                    | Burke ✓      | 405,633                               | 3,663,396                              | 100.00   | 33.96                                | Yes                                       | 679.13                  | Yes  |
| Georgia Iron Works Co ✓                                      | Columbia ✓   | 389,655                               | 3,702,550                              | 60.94  | 36.14                                | No  | 722.71                  | Yes  |
| Plant Washington ✓   | Washington ✓ | 337,088                               | 3,659,816                              | 677.20   | 37.05                                | No  | 740.94                  | Yes  |
| Georgia-Pacific Corp Chip-n-Saw Div. Warrenton ✓             | Warren ✓     | 346,957                               | 3,697,767                              | 100.00   | 37.16                                | No  | 743.30                  | Yes  |
| Dogwood Quarry ✓   | Columbia ✓   | 383,226                               | 3,709,658                              | 100.00   | 40.36                                | No  | 807.19                  | Yes  |
| Hanson Aggregates Southeast LLC - Sparta Quarry ✓            | Hancock ✓    | 322,678                               | 3,681,213                              | 100.00   | 50.89                                | No  | 1,017.83                | Yes  |
| American Concrete - Gracewood ✓                              | Richmond ✓   | 402,911                               | 3,693,445                              | 100.00   | 37.96                                | No  | 759.13                  | Yes  |
| Jebeo, Inc. ✓  | Warren ✓     | 343,844                               | 3,697,225                              | 100.00   | 39.00                                | No  | 779.96                  | Yes  |
| Solvay Advanced Polymers - Augusta ✓                         | Richmond ✓   | 405,656                               | 3,692,766                              | 100.00   | 39.81                                | Yes                                       | 779.96                  | Yes  |
| Omni Oxide Corporation ✓                                     | Richmond ✓   | 405,926                               | 3,692,761                              | 100.00   | 40.03                                | No  | 800.67                  | Yes  |
| US Battery Mfg. Co of Augusta ✓                              | Richmond ✓   | 405,926                               | 3,692,761                              | 100.00   | 40.03                                | No  | 800.67                  | Yes  |
| Augusta Ready Mix, Inc. ✓                                    | Columbia ✓   | 387,150                               | 3,706,000                              | 100.00   | 38.17                                | No  | 763.50                  | Yes  |
| Martin Marietta Aggregates ✓                                 | Columbia ✓   | 385,159                               | 3,709,414                              | 100.00   | 40.68                                | No  | 813.68                  | Yes  |
| Reeves Construction Co. ✓                                    | Columbia ✓   | 384,120                               | 3,709,694                              | 100.00   | 40.64                                | Yes                                       | 813.68                  | Yes  |
| Sample & Son Const and Demolition LP ✓                       | Columbia ✓   | 382,931                               | 3,710,318                              | 100.00   | 40.92                                | No  | 818.44                  | Yes  |
| EKA Chemicals - Augusta GP Plant ✓                           | Richmond ✓   | 407,594                               | 3,695,445                              | 100.00   | 42.92                                | Yes                                       | 858.46                  | Yes  |
| The Procter & Gamble Manufacturing Company ✓                 | Richmond ✓   | 406,562                               | 3,694,781                              | 277.00   | 41.70                                | No  | 818.44                  | Yes  |
| Leco Corporation ✓   | Columbia ✓   | 394,372                               | 3,705,331                              | 100.00   | 40.92                                | No  | 818.44                  | Yes  |
| Milliken & Company Kingsley Plant ✓                          | McDuffie ✓   | 360,222                               | 3,710,799                              | 100.00   | 41.88                                | No  | 837.58                  | Yes  |
| Pryoflex Augusta LLC ✓                                       | Richmond ✓   | 411,350                               | 3,689,329                              | 100.00   | 43.08                                | No  | 837.58                  | Yes  |
| West Fraser - Augusta Lumber Mill ✓                          | Richmond ✓   | 410,417                               | 3,688,499                              | 25.10  | 41.88                                | No  | 837.58                  | Yes  |
| Deerfield Tissue, LLC ✓                                      | Richmond ✓   | 411,063                               | 3,687,063                              | 0.72   | 41.89                                | No  | 837.58                  | Yes  |
| Farmers & Truckers Biodiesel LLC ✓                           | Richmond ✓   | 410,501                               | 3,688,406                              | -  | 41.92                                | No  | 837.58                  | Yes  |
| International Paper - Augusta Mill ✓                         | Richmond ✓   | 411,198                               | 3,688,017                              | 2,577.17   | 42.39                                | Yes                                       | 861.53                  | No   |
| International Flavors and Fragrances ✓                       | Richmond ✓   | 410,509                               | 3,688,702                              | 1.93   | 42.05                                | No  | 861.53                  | No   |
| PVS Technologies, Inc. ✓                                     | Richmond ✓   | 411,101                               | 3,689,082                              | -  | 42.75                                | No  | 861.53                  | No   |
| Augusta Newsprint Co ✓                                       | Richmond ✓   | 411,043                               | 3,688,936                              | 134.21   | 42.63                                | No  | 861.53                  | No   |
| Olin Corporation Augusta Plant ✓                             | Richmond ✓   | 411,642                               | 3,689,877                              | 1.39   | 43.58                                | No  | 861.53                  | No   |
| Lafarge Building Materials, Inc. - Martinez Concrete Plant ✓ | Columbia ✓   | 395,868                               | 3,705,928                              | 100.00   | 42.24                                | No  | 844.75                  | Yes  |
| Finchem USA, Inc. ✓  | Richmond ✓   | 410,028                               | 3,691,245                              | 100.00   | 42.77                                | Yes                                       | 855.44                  | Yes  |
| Garrett Aviation Services ✓                                  | Richmond ✓   | 409,383                               | 3,692,743                              | 100.00   | 42.95                                | Yes                                       | 855.44                  | Yes  |

Table D-19. PM<sub>10</sub>/PM<sub>2.5</sub> Regional Source Inventories - Georgia Major and Minor Source Review

| SOURCE DESCRIPTION                                     | County       | UTM East<br>(NAD83<br>Zone 17)<br>(m) | UTM North<br>(NAD83<br>Zone 17)<br>(m) | Potential<br>Facility<br>PM <sub>10</sub><br>Emissions <sup>1</sup><br>(tpy) | Distance<br>from<br>Facility<br>(km) | Within 2<br>km of<br>another<br>facility? | PM <sub>10</sub><br>20D | PM <sub>10</sub><br>Exclude<br>Per 20D<br>Rule? <sup>2</sup> |
|--|--------------|---------------------------------------|--|--|--------------------------------------|---|-------------------------|--|
| Occidental Chemical Corp                               | Richmond ✓   | 408,146                               | 3,695,572                              | 100.00   | 43.45                                |   |                         |  |
| Prayon Inc   | Richmond ✓   | 407,850                               | 3,695,193                              | 281.00   | 42.99                                |   |                         |  |
| Keebler Foods Company                                  | Richmond ✓   | 408,029                               | 3,695,528                              | 100.00   | 43.33                                | Yes                                       | 868.96                  | Yes  |
| Augusta Select Tissue, LLC                             | Richmond ✓   | 408,349                               | 3,695,293                              | 100.00   | 43.46                                |   |                         |  |
| Kendall Co Augusta Plant                               | Richmond ✓   | 408,434                               | 3,695,438                              | 100.00   | 43.61                                |   |                         |  |
| Georgia-Pacific Corporation 1 LLC                      | Richmond ✓   | 407,912                               | 3,697,238                              | 100.00   | 44.23                                |   |                         |  |
| American Concrete - Martinez                           | Richmond ✓   | 398,414                               | 3,706,473                              | 100.00   | 44.14                                | No  | 882.77                  | Yes  |
| Cobb EMC - Sandersville                                | Washington ✓ | 331,802                               | 3,652,098                              | 2.05   | 44.76                                | No  | 895.10                  | Yes  |
| KaMin - Sandersville                                   | Washington ✓ | 329,681                               | 3,649,059                              | 127.16   | 47.99                                |   |                         |  |
| Burgess Pigment Company, Sandersville Plant            | Washington ✓ | 329,707                               | 3,649,412                              | 250.00   | 47.80                                | Yes                                       | 959.74                  | Yes  |
| Thiele Kaolin Co. - Sandersville Plant                 | Washington ✓ | 330,686                               | 3,649,165                              | 490.00   | 47.04                                |   |                         |  |
| Bulk Chemical Services, LLC                            | Washington ✓ | 332,077                               | 3,649,008                              | -  | 45.89                                |   |                         |  |
| Thermal Ceramics                                       | Richmond ✓   | 407,079                               | 3,700,074                              | 118.08   | 45.35                                |   |                         |  |
| Boral Bricks #6 Augusta Plt                            | Richmond ✓   | 408,218                               | 3,699,805                              | 17.47  | 46.05                                |   |                         |  |
| USVA Veterans Admin II                                 | Richmond ✓   | 404,725                               | 3,703,684                              | 7.77   | 46.09                                |   |                         |  |
| Augusta Hospital, LLC                                  | Richmond ✓   | 405,418                               | 3,703,585                              | 100.00   | 46.50                                |   |                         |  |
| University Hospital                                    | Richmond ✓   | 405,696                               | 3,703,934                              | 8.52   | 46.95                                | Yes                                       | 906.97                  | Yes  |
| Translo Terminal Services, Inc.                        | Richmond ✓   | 406,412                               | 3,702,582                              | 63.07  | 46.52                                |   |                         |  |
| Southern Crushers, Inc.                                | Richmond ✓   | 408,492                               | 3,701,078                              | 20.00  | 47.08                                |   |                         |  |
| Mabus Brothers Construction Company                    | Richmond ✓   | 408,492                               | 3,701,078                              | 34.60  | 47.08                                |   |                         |  |
| FPL Food, LLC  | Richmond ✓   | 409,291                               | 3,701,655                              | 8.32   | 48.06                                |   |                         |  |
| crawford kitchens, inc                                 | Columbia ✓   | 398,903                               | 3,708,252                              | 100.00   | 45.87                                | Yes                                       | 917.39                  | Yes  |
| Martin Marietta Aggregates - Richmond County           | Richmond ✓   | 398,434                               | 3,709,133                              | 100.00   | 46.33                                |   |                         |  |
| KGEN Sandersville LLC                                  | Washington ✓ | 326,300                               | 3,665,800                              | 490.00   | 46.45                                | Yes                                       | 928.96                  | Yes  |
| Paul Creek Energy Center                               | Washington ✓ | 325,635                               | 3,664,932                              | 100.00   | 47.21                                |   |                         |  |
| Inerlys Clays, Inc. Sandersville Calcine Plant         | Washington ✓ | 330,657                               | 3,649,161                              | 136.17   | 47.07                                | Yes                                       | 941.42                  | Yes  |
| Kentucky-Tennessee Clay Company (Plts 51 & 52)         | Washington ✓ | 329,474                               | 3,648,637                              | 100.00   | 48.36                                |   |                         |  |
| World Color Printing (USA) II Corp.                    | Columbia ✓   | 396,085                               | 3,711,586                              | 100.00   | 47.16                                |   |                         |  |
| US Battery Manufacturing Company                       | Columbia ✓   | 395,518                               | 3,712,345                              | 100.00   | 47.54                                | Yes                                       | 943.24                  | Yes  |
| Greenfield Industries, Inc.                            | Columbia ✓   | 396,501                               | 3,710,870                              | 100.00   | 46.76                                |   |                         |  |
| Sandersville Ethanol, LLC                              | Washington ✓ | 328,546                               | 3,651,211                              | 100.00   | 48.09                                | No  | 961.75                  | Yes  |
| Elanco Augusta Technology Center                       | Richmond ✓   | 412,216                               | 3,698,452                              | 100.00   | 48.43                                | Yes                                       | 968.69                  | Yes  |
| The Nutrasweet Kelco Co                                | Richmond ✓   | 412,217                               | 3,698,455                              | 250.00   | 48.44                                |   |                         |  |
| American Concrete - Downtown                           | Richmond ✓   | 409,105                               | 3,704,324                              | 100.00   | 49.68                                |   |                         |  |
| Boral Bricks, Inc. - Plants 3 & 5                      | Richmond ✓   | 409,495                               | 3,703,909                              | 250.00   | 49.69                                |   |                         |  |
| Medical College of Georgia                             | Richmond ✓   | 408,094                               | 3,703,760                              | 100.00   | 48.55                                |   |                         |  |
| Modern Welding Company of Georgia                      | Richmond ✓   | 409,380                               | 3,704,826                              | 100.00   | 50.22                                | Yes                                       | 993.58                  | Yes  |
| Potters Industries, Inc. - Q-Cel Facility              | Richmond ✓   | 409,380                               | 3,704,826                              | 100.00   | 50.22                                |   |                         |  |
| Standard Textile Augusta, Inc.                         | Richmond ✓   | 407,982                               | 3,705,392                              | 100.00   | 49.60                                |   |                         |  |
| Industrial Metal Finishing, Inc.                       | Richmond ✓   | 409,399                               | 3,704,113                              | 100.00   | 49.76                                |   |                         |  |
| Top Bead Welding Services, Inc.                        | Richmond ✓   | 409,806                               | 3,702,494                              | 100.00   | 48.99                                |   |                         |  |
| Reeves CC Inc. - Riverwatch HMAF                       | Richmond ✓   | 403,644                               | 3,709,732                              | 100.00   | 49.90                                | Yes                                       | 998.04                  | Yes  |
| Martin Marietta Materials, Inc. - Augusta Quarry       | Richmond ✓   | 404,023                               | 3,711,378                              | 100.00   | 51.43                                |   |                         |  |
| Kentucky-Tennessee Clay Company (Plt 53)               | Washington ✓ | 325,130                               | 3,654,389                              | 100.00   | 50.10                                |   |                         |  |
| Cobb EMC - Robin Springs                               | Washington ✓ | 324,916                               | 3,654,516                              | 100.00   | 50.26                                | Yes                                       | 1,002.03                | Yes  |
| Inerlys Clays Inc, Deepstep Road Plant Sandersville GA | Washington ✓ | 324,393                               | 3,655,700                              | 490.00   | 50.39                                |   |                         |  |
| General Chemical Corp., Augusta Plant                  | Richmond ✓   | 413,066                               | 3,700,330                              | 15.33  | 50.22                                |   |                         |  |
| PCS Nitrogen Fertilizer Inc                            | Richmond ✓   | 413,506                               | 3,700,701                              | 250.00   | 50.79                                | Yes                                       | 1,004.33                | Yes  |
| DSM Resins U.S. Inc                                    | Richmond ✓   | 413,697                               | 3,701,994                              | 0.02   | 51.72                                |   |                         |  |
| DSM Chemicals North America, Inc.                      | Richmond ✓   | 413,727                               | 3,702,063                              | 110.00   | 51.78                                |   |                         |  |
| Pollard Lumber Co                                      | Columbia ✓   | 382,225                               | 3,720,504                              | 100.00   | 50.69                                | No  | 1,013.89                | Yes  |
| Martin Marietta Aggregates - Camak Rock Quarry ✓       | Warren ✓     | 347,924                               | 3,716,391                              | 100.00   | 51.83                                | No  | 1,036.51                | Yes  |

1. For conservatism, facility emissions were set to the PTE maximum thresholds in Section B1 (i.e., 50, 100, 250 tpy) unless further analysis was needed to evaluate 20D applicability.

2. Emissions from facilities within 2 km of another site, as determined by a review of the coordinates when sorted by distance from the King site, were grouped together when completing the 20D screening.

Table D-20. PM<sub>10</sub>/PM<sub>2.5</sub> Regional Source Inventories - South Carolina Source Review

| SOURCE DESCRIPTION       | County | UTM East<br>(NAD83<br>Zone 17)<br>(m) | UTM North<br>(NAD83<br>Zone 17)<br>(m) | Potential<br>Facility PM <sub>10</sub><br>Emissions <sup>1</sup><br>(tpy) | Distance<br>from<br>Facility<br>(km) | W/in 2 km<br>of another<br>facility? | PM <sub>10</sub><br>20D | PM <sub>10</sub><br>Exclude<br>Per 20D<br>Rule? <sup>2</sup> |
|--------------------------|--------|---------------------------------------|--|---|--------------------------------------|--------------------------------------|-------------------------|--|
| SCE&G - Urquhart         | Aiken  | 415,224                               | 3,699,571                              | 3,233.75  | 51.55                                | No                                   | 1,030.95                | No   |
| Kimberly-Clark           | Aiken  | 416,579                               | 3,697,667                              | 225.31  | 51.66                                | No                                   | 1,033.19                | Yes  |
| Halocarbon Products Corp | Aiken  | 413,005                               | 3,705,005                              | 1.97  | 53.06                                | Yes                                  | 1,061.15                | Yes  |
| Cytec Industries, Inc    | Aiken  | 414,277                               | 3,704,322                              | 7.26  | 53.60                                |                                      |                         |  |

1. For conservatism, facility emissions were calculated from hourly emissions (lb/hr) assuming continuous annual operation at 8,760 hr/yr.

2. Emissions from facilities within 2 km of another site, as determined by a review of the coordinates when sorted by distance from the King site, were grouped together when completing the 20D screening.

**Table D-21. Modeling Data for International Flavors and Fragrances**

| Stack ID | Model ID | UTM East                   | UTM North                  | Elevation | PM <sub>10</sub> /PM <sub>2.5</sub><br>Emissions | Height | Diam. | Vel. | Temp.  |
|----------|----------|----------------------------|----------------------------|-----------|--|--------|-------|------|--------|
|          |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |           |  |        |       |      |        |
| B01      | IFFB01   | 410.51                     | 3,688.70                   | 55        | 2.39E-02   | 9.14   | 0.66  | 0.58 | 449.82 |
| B02      | IFFB02   | 410.51                     | 3,688.70                   | 55        | 2.79E-02   | 9.14   | 0.66  | 0.58 | 449.82 |
| B03      | IFFB03   | 410.51                     | 3,688.70                   | 55        | 2.79E-02   | 9.14   | 0.66  | 0.58 | 449.82 |

**Table D-22. Modeling Data for Augusta Newsprint Co.**

| Stack ID | Model ID | UTM East                   | UTM North                  | Elevation | PM <sub>10</sub> /PM <sub>2.5</sub><br>Emissions | Height | Diam. | Vel.  | Temp.  |
|----------|----------|----------------------------|----------------------------|-----------|--|--------|-------|-------|--------|
|          |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |           |  |        |       |       |        |
| S009     | ANCS009  | 411.04                     | 3,688.94                   | 55        | 2.77E+00   | 42.67  | 2.90  | 11.83 | 338.71 |
| S001     | ANCS001  | 411.04                     | 3,688.94                   | 55        | 7.39E-02   | 36.88  | 2.13  | 14.19 | 588.15 |
| PM1      | ANCPM1   | 411.04                     | 3,688.94                   | 55        | 4.41E-01   | 32.61  | 1.52  | 15.24 | 310.93 |
| PM2      | ANCPM2   | 411.04                     | 3,688.94                   | 55        | 5.80E-01   | 25.91  | 1.52  | 15.24 | 310.93 |

**Table D-23. Modeling Data for Olin Corporation Augusta Plant**

| Stack ID | Model ID | UTM East                   | UTM North                  | Elevation | PM <sub>10</sub> /PM <sub>2.5</sub><br>Emissions | Height | Diam. | Vel.  | Temp.  |
|----------|----------|----------------------------|----------------------------|-----------|--|--------|-------|-------|--------|
|          |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |           |  |        |       |       |        |
| E05A     | OCOE05A  | 411.64                     | 3,689.88                   | 52        | 2.00E-02   | 11.28  | 0.61  | 10.06 | 422.04 |
| E06A     | OCOE06A  | 411.64                     | 3,689.88                   | 52        | 2.00E-02   | 11.28  | 0.61  | 10.06 | 422.04 |

**Table D-24. Modeling Data for West Fraser Augusta Mill**

| Stack ID | Model ID | UTM East                   | UTM North                  | Elevation | PM <sub>10</sub> /PM <sub>2.5</sub><br>Emissions | Height | Diam. | Vel. | Temp.  |
|----------|----------|----------------------------|----------------------------|-----------|--|--------|-------|------|--------|
|          |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |           |  |        |       |      |        |
| KD01     | WFLKD01  | 410.42                     | 3,688.50                   | 48.77     | 1.15E-01   | 8.99   | 0.53  | 5.18 | 394.26 |
| KD02     | WFLKD02  | 410.42                     | 3,688.50                   | 48.77     | 2.29E-01   | 9.14   | 0.53  | 5.18 | 394.26 |
| KD03     | WFLKD03  | 410.42                     | 3,688.50                   | 48.77     | 3.78E-01   | 9.14   | 0.53  | 5.18 | 394.26 |

Table D-25. Modeling Data for Deerfield Tissues, LLC

| Stack ID | Model ID | UTM East                   | UTM North                  | Elevation | PM <sub>10</sub> /PM <sub>2.5</sub><br>Emissions | Height | Diam. | Vel.  | Temp.  |
|----------|----------|----------------------------|----------------------------|-----------|--|--------|-------|-------|--------|
|          |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |           |  |        |       |       |        |
| B02      | DEERB02  | 411.06                     | 3,687.06                   | 44.20     | 2.07E-02   | 4.88   | 1.14  | 15.18 | 463.71 |

Table D-26. Modeling Data for International Paper - Augusta Mill

| Stack ID | Model ID | UTM East                   | UTM North                  | Elevation | PM <sub>10</sub> /PM <sub>2.5</sub><br>Emissions | Height | Diam. | Vel.  | Temp.  |
|----------|----------|----------------------------|----------------------------|-----------|--|--------|-------|-------|--------|
|          |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |           |  |        |       |       |        |
| LK1      | IPALK1   | 410.98                     | 3,687.39                   | 48.16     | 2.94E+00   | 61.57  | 1.73  | 4.88  | 349.26 |
| LK2      | IPALK2   | 410.98                     | 3,687.39                   | 48.16     | 2.82E-01   | 64.62  | 1.56  | 14.94 | 340.93 |
| PB1      | IPAPB1   | 410.98                     | 3,687.39                   | 48.16     | 2.76E+01   | 60.90  | 2.23  | 18.50 | 331.48 |
| PB2      | IPAPB2   | 410.98                     | 3,687.39                   | 48.16     | 2.34E+01   | 60.90  | 2.44  | 25.15 | 506.48 |
| PB3      | IPAPB3   | 410.98                     | 3,687.39                   | 48.16     | 5.22E+00   | 60.96  | 3.05  | 17.07 | 444.26 |
| RB2      | IPARB2   | 410.98                     | 3,687.39                   | 48.16     | 4.53E+00   | 60.96  | 2.44  | 24.38 | 428.71 |
| RB3      | IPARB3   | 410.98                     | 3,687.39                   | 48.16     | 4.68E+00   | 64.01  | 3.00  | 36.58 | 473.15 |
| RLB      | IPARLB   | 410.98                     | 3,687.39                   | 48.16     | 1.95E-01   | 36.58  | 1.52  | 12.92 | 477.59 |
| ST2      | IPAST2   | 410.98                     | 3,687.39                   | 48.16     | 2.42E+00   | 59.44  | 1.05  | 16.92 | 338.71 |
| ST3      | IPAST3   | 410.98                     | 3,687.39                   | 48.16     | 2.83E+00   | 64.01  | 1.83  | 6.10  | 347.04 |
| PAPR     | IPAPAPR  | 410.98                     | 3,687.39                   | 48.16     | 9.90E-02   | 17.74  | 1.04  | 8.42  | 497.59 |

Table D-27. Modeling Data for SCE&G - Urquhart

| Stack ID      | Model ID | UTM East                   | UTM North                  | Elevation | PM <sub>10</sub> /PM <sub>2.5</sub><br>Emissions | Height | Diam. | Vel.  | Temp.  |
|---------------|----------|----------------------------|----------------------------|-----------|--|--------|-------|-------|--------|
|               |          | (NAD83<br>Zone 17)<br>(km) | (NAD83<br>Zone 17)<br>(km) |           |  |        |       |       |        |
| Boiler #3     | SCEGB3   | 415.22                     | 3,699.57                   | 44        | 8.32E+01   | 60.96  | 4.72  | 12.01 | 415.93 |
| Turbine #1    | SCEGT1   | 415.22                     | 3,699.57                   | 44        | 2.00E+00   | 9.14   | 3.05  | 23.16 | 697.59 |
| Turbine #2    | SCEGT2   | 415.22                     | 3,699.57                   | 44        | 1.79E+00   | 9.14   | 3.05  | 26.21 | 697.59 |
| Turbine #3    | SCEGT3   | 415.22                     | 3,699.57                   | 44        | 1.79E+00   | 9.14   | 3.05  | 26.21 | 697.59 |
| Turbine (CT1) | SCEGCT1  | 415.22                     | 3,699.57                   | 44        | 2.14E+00   | 45.72  | 6.10  | 12.50 | 438.71 |
| Turbine (CT2) | SCEGCT2  | 415.22                     | 3,699.57                   | 44        | 2.14E+00   | 45.72  | 6.10  | 12.50 | 438.71 |

Regional source inventory for the proposed site was compiled per the modeling protocol submitted to EPD on June 24, 2011. 20D screening was applied to the regional sources which eliminated sources with emissions less than 20 times the distance from the source to the center of the proposed site. In addition, source within 2 km of each other were grouped together before applying the 20D screening technique by summing emissions from the group. All sources within the significant impact area were included in modeling and no screening technique was applied to these sources. All sources that did not screen out in Tables D-1, D-13, D-19, and D-20 were potentially included in modeling.

#### Annual NO<sub>2</sub> Inventory Source Exclusion

Two of the sources that did not screen out using 20D procedures for annual NO<sub>2</sub> are not included in the modeling inventory. Specifically, from a file review conducted at EPD in June 2011, Farmers & Truckers Biodiesel LLC and PVS Technologies, Inc. both do not list any criteria emissions including NO<sub>x</sub> emissions. Hence both the facilities were not included in annual NO<sub>2</sub> modeling. In addition, General Chemical Corp., Augusta Plant was also excluded from modeling because NO<sub>x</sub> emissions from the source were specified to be zero per the Georgia Title V online database. In summary, the following is a table containing excluded sources:

| Facility                              | County   | UTM East<br>(NAD83 Zone 17)<br>(m) | UTM North<br>(NAD83 Zone 17)<br>(m) | Reason for Exclusion   |
|---------------------------------------|----------|------------------------------------|-------------------------------------|--|
| Farmers & Truckers Biodiesel LLC      | Richmond | 410,501                            | 3,688,406                           | No criteria pollutant emissions, hence no NO <sub>x</sub> emissions    |
| PVS Technologies, Inc.                | Richmond | 411,101                            | 3,689,082                           | Only chlorine emissions, hence no NO <sub>x</sub> emissions            |
| General Chemical Corp., Augusta Plant | richmond | 413,066                            | 3,700,330                           | Zero NO <sub>x</sub> emissions per Georgia electronic Title V database |

#### PM<sub>10</sub> Inventory Source Exclusion

Similarly for PM<sub>10</sub> modeling, as seen in Table D-13, nine sources were determined to be modeled, and all nine sources are grouped together since they are situated within 2 km of each other. However, three of the nine sources are not included in modeling because no PM<sub>10</sub> emissions result from these facilities. Specifically, from a file review conducted at EPD in June 2011, Farmers & Truckers Biodiesel LLC and PVS Technologies, Inc. both do not list any criteria emissions. Additionally, a file review search for Pyroflex Augusta LLC did not result in sufficient information for modeling and was hence excluded from modeling. In summary, the following is a table containing excluded sources:

| Facility                         | County   | UTM East<br>(NAD83 Zone 17)<br>(m) | UTM North<br>(NAD83 Zone 17)<br>(m) | Reason for Exclusion   |
|----------------------------------|----------|------------------------------------|-------------------------------------|--|
| Farmers & Truckers Biodiesel LLC | Richmond | 410,501                            | 3,688,406                           | No criteria pollutant emissions, hence no PM <sub>10</sub> emissions |
| PVS Technologies, Inc.           | Richmond | 411,101                            | 3,689,082                           | Only chlorine emissions, hence no PM <sub>10</sub> emissions         |
| Pyroflex Augusta LLC             | Richmond | 411,350                            | 3,689,329                           | Insufficient information from file review                            |