

## Listing of Incidents Reported via Form R

Partial Output - Max of 25 Records for Federal Flag = Yes/No

| Chemical Classification | Hazardous Air Pollutant Flag | Carcinogen Flag | PFAS Flag |
|-------------------------|------------------------------|-----------------|-----------|
| PBT                     | NO                           | YES             | NO        |
| PBT                     | NO                           | YES             | NO        |
| TRI                     | NO                           | NO              | NO        |
| PBT                     | NO                           | YES             | NO        |
| PBT                     | NO                           | YES             | NO        |
| PBT                     | NO                           | YES             | NO        |
| PBT                     | NO                           | YES             | NO        |
| PBT                     | NO                           | YES             | NO        |
| PBT                     | NO                           | YES             | NO        |
| PBT                     | NO                           | YES             | NO        |
| TRI                     | YES                          | NO              | NO        |
| TRI                     | NO                           | NO              | NO        |
| PBT                     | NO                           | YES             | NO        |
| TRI                     | NO                           | NO              | NO        |
| PBT                     | NO                           | YES             | NO        |
| PBT                     | NO                           | YES             | NO        |
| PBT                     | NO                           | YES             | NO        |
| PBT                     | NO                           | YES             | NO        |
| PBT                     | NO                           | YES             | NO        |
| PBT                     | NO                           | YES             | NO        |
| PBT                     | NO                           | YES             | NO        |
| TRI                     | NO                           | NO              | NO        |
| TRI                     | YES                          | NO              | NO        |
| TRI                     | NO                           | NO              | NO        |
| TRI                     | YES                          | NO              | NO        |

| Chemical Classification | Hazardous Air Pollutant Flag | Carcinogen Flag | PFAS Flag |
|-------------------------|------------------------------|-----------------|-----------|
| TRI                     | YES                          | YES             | NO        |
| TRI                     | NO                           | NO              | NO        |
| TRI                     | NO                           | NO              | NO        |
| TRI                     | NO                           | NO              | NO        |
| TRI                     | YES                          | YES             | NO        |
| TRI                     | YES                          | NO              | NO        |
| TRI                     | YES                          | YES             | NO        |
| PBT                     | YES                          | YES             | NO        |
| TRI                     | YES                          | NO              | NO        |
| TRI                     | NO                           | NO              | NO        |
| TRI                     | YES                          | NO              | NO        |
| TRI                     | YES                          | YES             | NO        |
| TRI                     | NO                           | NO              | NO        |
| TRI                     | YES                          | YES             | NO        |
| TRI                     | NO                           | NO              | NO        |
| TRI                     | YES                          | YES             | NO        |
| TRI                     | YES                          | YES             | NO        |
| TRI                     | YES                          | YES             | NO        |
| TRI                     | NO                           | NO              | NO        |
| PBT                     | YES                          | NO              | NO        |
| TRI                     | YES                          | YES             | NO        |
| TRI                     | YES                          | YES             | NO        |
| PBT                     | YES                          | YES             | NO        |
| TRI                     | NO                           | NO              | NO        |
| TRI                     | YES                          | YES             | NO        |
| TRI                     | YES                          | NO              | NO        |

Selected Summary Statistics of Total Air Pollution and Total Stream Discharge

Variable: AirTotal (Total Air Emissions)

Variable: DischargeTotal (Total Discharge)

| Moments         |            |                  |            | Moments         |            |                  |            |
|-----------------|------------|------------------|------------|-----------------|------------|------------------|------------|
| N               | 476646     | Sum Weights      | 476646     | N               | 127091     | Sum Weights      | 127091     |
| Mean            | 7237.84914 | Sum Observations | 3449891841 | Mean            | 9295.02921 | Sum Observations | 1181314557 |
| Std Deviation   | 99665.6628 | Variance         | 9933244348 | Std Deviation   | 150031.613 | Variance         | 2.25095E10 |
| Skewness        | 83.892447  | Kurtosis         | 11667.2023 | Skewness        | 46.3264759 | Kurtosis         | 3160.2401  |
| Uncorrected SS  | 4.7596E15  | Corrected SS     | 4.73463E15 | Uncorrected SS  | 2.87171E15 | Corrected SS     | 2.86073E15 |
| Coeff Variation | 1377.00663 | Std Error Mean   | 144.360236 | Coeff Variation | 1614.10588 | Std Error Mean   | 420.84811  |

| Basic Statistical Measures |          |                     |            |
|----------------------------|----------|---------------------|------------|
| Location                   |          | Variability         |            |
| Mean                       | 7237.849 | Std Deviation       | 99666      |
| Median                     | 6.260    | Variance            | 9933244348 |
| Mode                       | 0.000    | Range               | 17910200   |
|                            |          | Interquartile Range | 417.00000  |

| Basic Statistical Measures |          |                     |            |
|----------------------------|----------|---------------------|------------|
| Location                   |          | Variability         |            |
| Mean                       | 9295.029 | Std Deviation       | 150032     |
| Median                     | 0.002    | Variance            | 2.25095E10 |
| Mode                       | 0.000    | Range               | 15603660   |
|                            |          | Interquartile Range | 13.00000   |

| Missing Values |        |            |             |
|----------------|--------|------------|-------------|
| Missing Value  | Count  | Percent Of |             |
|                |        | All Obs    | Missing Obs |
| .              | 349555 | 73.34      | 100.00      |

## Frequency-Ordered Summary of Facility Locations (State)

Only Unique Locations Included

| Facility State |           |         |                      |                    |
|----------------|-----------|---------|----------------------|--------------------|
| FacState       | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
| TX             | 2431      | 9.13    | 2431                 | 9.13               |
| OH             | 1568      | 5.89    | 3999                 | 15.02              |
| CA             | 1481      | 5.56    | 5480                 | 20.58              |
| PA             | 1273      | 4.78    | 6753                 | 25.36              |
| IL             | 1194      | 4.48    | 7947                 | 29.84              |
| IN             | 1065      | 4.00    | 9012                 | 33.84              |
| WI             | 1013      | 3.80    | 10025                | 37.64              |
| NC             | 947       | 3.56    | 10972                | 41.20              |
| MI             | 941       | 3.53    | 11913                | 44.73              |
| FL             | 890       | 3.34    | 12803                | 48.07              |
| GA             | 890       | 3.34    | 13693                | 51.41              |
| TN             | 755       | 2.83    | 14448                | 54.25              |
| NY             | 718       | 2.70    | 15166                | 56.94              |
| AL             | 677       | 2.54    | 15843                | 59.49              |
| SC             | 672       | 2.52    | 16515                | 62.01              |
| MO             | 633       | 2.38    | 17148                | 64.39              |
| MN             | 604       | 2.27    | 17752                | 66.65              |
| IA             | 561       | 2.11    | 18313                | 68.76              |
| VA             | 520       | 1.95    | 18833                | 70.71              |
| OK             | 505       | 1.90    | 19338                | 72.61              |
| KY             | 499       | 1.87    | 19837                | 74.48              |
| LA             | 478       | 1.79    | 20315                | 76.28              |
| MA             | 454       | 1.70    | 20769                | 77.98              |
| AR             | 443       | 1.66    | 21212                | 79.65              |
| NJ             | 415       | 1.56    | 21627                | 81.20              |
| KS             | 410       | 1.54    | 22037                | 82.74              |
| MS             | 394       | 1.48    | 22431                | 84.22              |

## Frequency-Ordered Summary of Facility Locations (State)

Only Unique Locations Included

| Facility State |           |         |                      |                    |
|----------------|-----------|---------|----------------------|--------------------|
| FacState       | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
| WA             | 384       | 1.44    | 22815                | 85.66              |
| AZ             | 361       | 1.36    | 23176                | 87.02              |
| OR             | 347       | 1.30    | 23523                | 88.32              |
| CO             | 327       | 1.23    | 23850                | 89.55              |
| CT             | 316       | 1.19    | 24166                | 90.74              |
| UT             | 251       | 0.94    | 24417                | 91.68              |
| NE             | 238       | 0.89    | 24655                | 92.57              |
| WV             | 214       | 0.80    | 24869                | 93.38              |
| MD             | 211       | 0.79    | 25080                | 94.17              |
| NV             | 195       | 0.73    | 25275                | 94.90              |
| NH             | 148       | 0.56    | 25423                | 95.46              |
| ID             | 136       | 0.51    | 25559                | 95.97              |
| SD             | 125       | 0.47    | 25684                | 96.44              |
| PR             | 123       | 0.46    | 25807                | 96.90              |
| NM             | 115       | 0.43    | 25922                | 97.33              |
| ND             | 106       | 0.40    | 26028                | 97.73              |
| ME             | 99        | 0.37    | 26127                | 98.10              |
| RI             | 92        | 0.35    | 26219                | 98.45              |
| WY             | 83        | 0.31    | 26302                | 98.76              |
| MT             | 80        | 0.30    | 26382                | 99.06              |
| DE             | 68        | 0.26    | 26450                | 99.31              |
| AK             | 58        | 0.22    | 26508                | 99.53              |
| VT             | 45        | 0.17    | 26553                | 99.70              |
| HI             | 39        | 0.15    | 26592                | 99.85              |
| DC             | 14        | 0.05    | 26606                | 99.90              |
| GU             | 10        | 0.04    | 26616                | 99.94              |
| MP             | 8         | 0.03    | 26624                | 99.97              |

## Frequency-Ordered Summary of Facility Locations (State)

Only Unique Locations Included

| Facility State |           |         |                      |                    |
|----------------|-----------|---------|----------------------|--------------------|
| FacState       | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
| VI             | 8         | 0.03    | 26632                | 100.00             |
| AS             | 1         | 0.00    | 26633                | 100.00             |

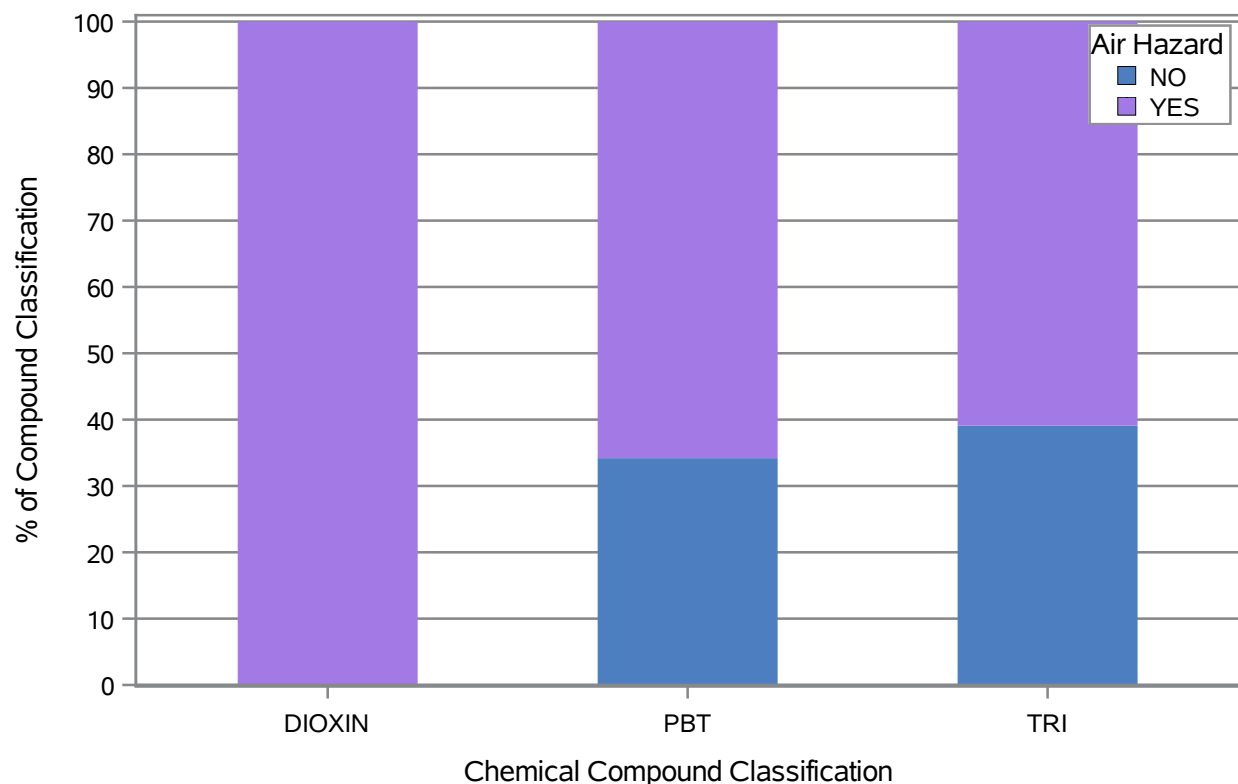
## Frequency-Ordered Summary of Facility Locations (State)

| Facility State |           |         |                      |                    |
|----------------|-----------|---------|----------------------|--------------------|
| FacState       | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
| TX             | 53694     | 11.26   | 53694                | 11.26              |
| OH             | 29922     | 6.28    | 83616                | 17.54              |
| IL             | 22445     | 4.71    | 106061               | 22.25              |
| CA             | 21946     | 4.60    | 128007               | 26.86              |
| PA             | 21492     | 4.51    | 149499               | 31.36              |
| IN             | 20247     | 4.25    | 169746               | 35.61              |
| MI             | 18205     | 3.82    | 187951               | 39.43              |
| LA             | 17610     | 3.69    | 205561               | 43.13              |
| WI             | 16560     | 3.47    | 222121               | 46.60              |
| NC             | 13554     | 2.84    | 235675               | 49.44              |
| GA             | 13529     | 2.84    | 249204               | 52.28              |
| TN             | 13272     | 2.78    | 262476               | 55.07              |
| AL             | 13237     | 2.78    | 275713               | 57.84              |
| SC             | 11863     | 2.49    | 287576               | 60.33              |
| MO             | 11227     | 2.36    | 298803               | 62.69              |
| KY             | 10975     | 2.30    | 309778               | 64.99              |
| FL             | 10828     | 2.27    | 320606               | 67.26              |
| IA             | 10797     | 2.27    | 331403               | 69.53              |
| NY             | 10582     | 2.22    | 341985               | 71.75              |
| MN             | 9037      | 1.90    | 351022               | 73.64              |
| AR             | 8677      | 1.82    | 359699               | 75.46              |
| OK             | 8414      | 1.77    | 368113               | 77.23              |
| VA             | 7733      | 1.62    | 375846               | 78.85              |
| KS             | 7363      | 1.54    | 383209               | 80.40              |
| MS             | 6677      | 1.40    | 389886               | 81.80              |
| NJ             | 6404      | 1.34    | 396290               | 83.14              |
| WA             | 6380      | 1.34    | 402670               | 84.48              |
| UT             | 5581      | 1.17    | 408251               | 85.65              |

## Frequency-Ordered Summary of Facility Locations (State)

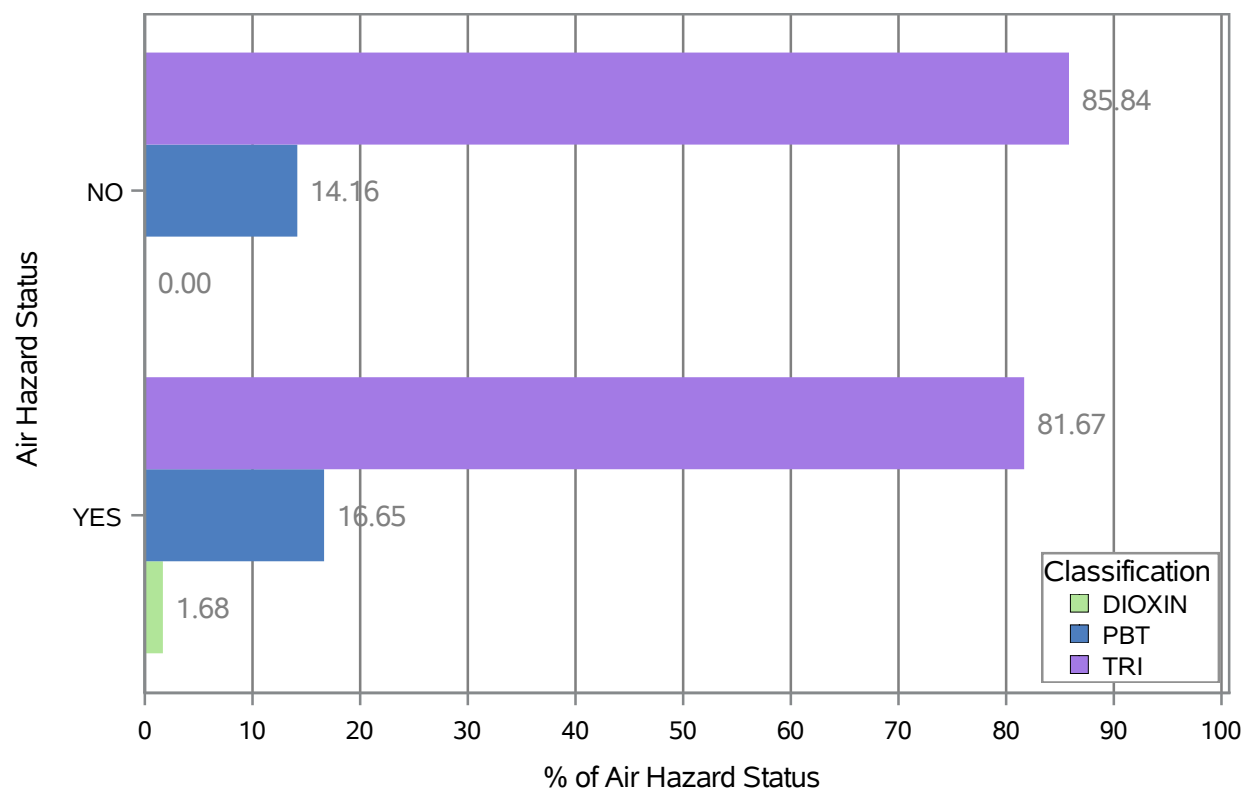
| Facility State |           |         |                      |                    |
|----------------|-----------|---------|----------------------|--------------------|
| FacState       | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
| MA             | 5547      | 1.16    | 413798               | 86.81              |
| AZ             | 5428      | 1.14    | 419226               | 87.95              |
| OR             | 5171      | 1.08    | 424397               | 89.04              |
| NE             | 5141      | 1.08    | 429538               | 90.12              |
| CO             | 4871      | 1.02    | 434409               | 91.14              |
| WV             | 4721      | 0.99    | 439130               | 92.13              |
| CT             | 4183      | 0.88    | 443313               | 93.01              |
| NV             | 4146      | 0.87    | 447459               | 93.88              |
| MD             | 2952      | 0.62    | 450411               | 94.50              |
| ND             | 2738      | 0.57    | 453149               | 95.07              |
| ID             | 2504      | 0.53    | 455653               | 95.60              |
| MT             | 2118      | 0.44    | 457771               | 96.04              |
| WY             | 2096      | 0.44    | 459867               | 96.48              |
| AK             | 2059      | 0.43    | 461926               | 96.91              |
| SD             | 2038      | 0.43    | 463964               | 97.34              |
| NM             | 2022      | 0.42    | 465986               | 97.76              |
| ME             | 1948      | 0.41    | 467934               | 98.17              |
| PR             | 1937      | 0.41    | 469871               | 98.58              |
| NH             | 1758      | 0.37    | 471629               | 98.95              |
| RI             | 1426      | 0.30    | 473055               | 99.25              |
| DE             | 1118      | 0.23    | 474173               | 99.48              |
| HI             | 1068      | 0.22    | 475241               | 99.71              |
| VT             | 590       | 0.12    | 475831               | 99.83              |
| GU             | 248       | 0.05    | 476079               | 99.88              |
| VI             | 247       | 0.05    | 476326               | 99.93              |
| MP             | 174       | 0.04    | 476500               | 99.97              |
| DC             | 124       | 0.03    | 476624               | 100.00             |
| AS             | 22        | 0.00    | 476646               | 100.00             |

**Output 5**  
**Frequency of Air Hazard Status for Each Chemical Classification**



Output created by hdbrook3 on 28NOV2024 using 9.04.01M7P080520

**Output 6**  
**Frequency of Chemical Classification within Air Hazard Status**



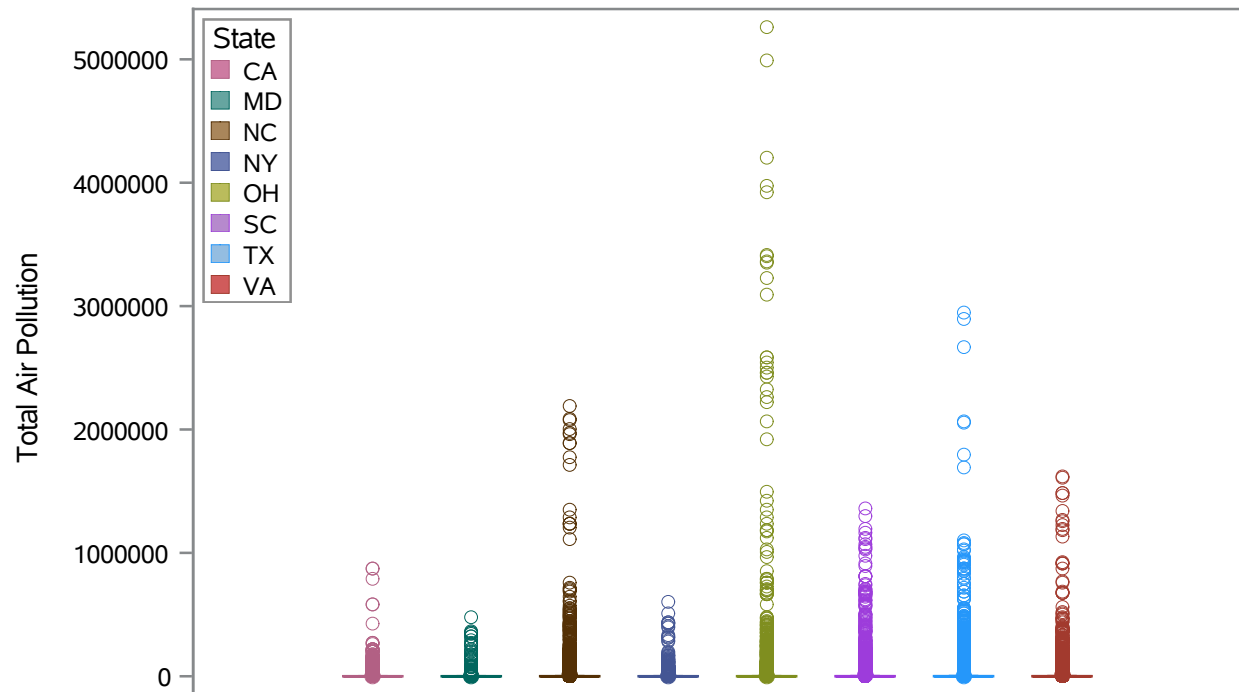
Output created by hdbrook3 on 28NOV2024 using 9.04.01M7P080520



### Output 7

## Comparative Boxplots for Air Pollution

For Mid-Atlantic\* and Reference\* States



Output created by hdbrook3 on 28NOV2024 using 9.04.01M7P080520

Mid-Atlantic: MD, VA, NC, SC

Reference: CA, OH, NY, TX

# Analysis of Air Pollution and Stream Discharge

Limited to Chemicals Classified as PBT  
Excluding 2020

|             |        |      | Air Pollution |           |        | Stream Discharge |           |       |
|-------------|--------|------|---------------|-----------|--------|------------------|-----------|-------|
| Report Year | HazAir | Carc | Mean          | Std. Dev. | Count  | Mean             | Std. Dev. | Count |
| 2023        | NO     | NO   | 26.7          | 263.49    | 132    | 0.4              | 1.12      | 21    |
|             |        | YES  | 42.5          | 1536.16   | 4,064  | 7.7              | 92.15     | 897   |
|             | YES    | NO   | 44.9          | 382.49    | 6,119  | 15.7             | 108.74    | 2,528 |
|             |        | YES  | 147.0         | 1870.62   | 1,763  | 12.8             | 160.73    | 597   |
| 2023        |        |      | 58.8          | 1175.00   | 12,078 | 13.4             | 114.43    | 4,043 |
| 2022        | NO     | NO   | 43.8          | 346.15    | 77     | 7.8              | 25.08     | 19    |
|             |        | YES  | 18.0          | 157.34    | 4,109  | 6.9              | 75.38     | 871   |
|             | YES    | NO   | 54.3          | 600.35    | 6,278  | 15.6             | 109.00    | 2,623 |
|             |        | YES  | 128.2         | 1515.49   | 1,825  | 7.4              | 68.29     | 646   |
| 2022        |        |      | 53.0          | 731.64    | 12,289 | 12.5             | 97.07     | 4,159 |
| 2021        | NO     | NO   | 49.7          | 368.77    | 68     | 9.4              | 26.95     | 16    |
|             |        | YES  | 15.7          | 142.79    | 4,113  | 6.5              | 54.45     | 815   |
|             | YES    | NO   | 47.6          | 389.48    | 6,306  | 15.9             | 101.42    | 2,568 |
|             |        | YES  | 139.3         | 1529.86   | 1,802  | 9.3              | 70.86     | 647   |
| 2021        |        |      | 50.4          | 655.74    | 12,289 | 12.9             | 89.13     | 4,046 |
| 2019        | NO     | NO   | 64.9          | 320.12    | 57     | 0.5              | 1.24      | 17    |
|             |        | YES  | 14.5          | 121.88    | 4,271  | 4.8              | 30.64     | 863   |
|             | YES    | NO   | 55.1          | 644.68    | 6,577  | 18.7             | 111.87    | 2,719 |
|             |        | YES  | 150.7         | 2009.29   | 1,852  | 18.8             | 237.34    | 659   |
| 2019        |        |      | 55.4          | 898.55    | 12,757 | 15.8             | 130.08    | 4,258 |
| 2018        | NO     | NO   | 49.5          | 269.24    | 58     | 0.5              | 1.31      | 15    |
|             |        | YES  | 12.4          | 97.41     | 4,400  | 5.9              | 37.58     | 848   |
|             | YES    | NO   | 60.3          | 820.98    | 6,672  | 20.4             | 145.42    | 2,792 |
|             |        | YES  | 130.4         | 1922.39   | 1,882  | 9.7              | 71.49     | 665   |
| 2018        |        |      | 54.2          | 940.65    | 13,012 | 15.8             | 121.52    | 4,320 |

**Analysis of Air Pollution and Stream Discharge**  
**Limited to Chemicals Classified as PBT**  
**Excluding 2020**

|             |        |      | Air Pollution |           |        | Stream Discharge |           |       |
|-------------|--------|------|---------------|-----------|--------|------------------|-----------|-------|
| Report Year | HazAir | Carc | Mean          | Std. Dev. | Count  | Mean             | Std. Dev. | Count |
| 2023        | NO     | NO   | 26.7          | 263.49    | 132    | 0.4              | 1.12      | 21    |
|             | NO     | YES  | 42.5          | 1536.16   | 4,064  | 7.7              | 92.15     | 897   |
|             | YES    | NO   | 44.9          | 382.49    | 6,119  | 15.7             | 108.74    | 2,528 |
|             | YES    | YES  | 147.0         | 1870.62   | 1,763  | 12.8             | 160.73    | 597   |
| 2023        |        |      | 58.8          | 1175.00   | 12,078 | 13.4             | 114.43    | 4,043 |
| 2022        | NO     | NO   | 43.8          | 346.15    | 77     | 7.8              | 25.08     | 19    |
|             | NO     | YES  | 18.0          | 157.34    | 4,109  | 6.9              | 75.38     | 871   |
|             | YES    | NO   | 54.3          | 600.35    | 6,278  | 15.6             | 109.00    | 2,623 |
|             | YES    | YES  | 128.2         | 1515.49   | 1,825  | 7.4              | 68.29     | 646   |
| 2022        |        |      | 53.0          | 731.64    | 12,289 | 12.5             | 97.07     | 4,159 |
| 2021        | NO     | NO   | 49.7          | 368.77    | 68     | 9.4              | 26.95     | 16    |
|             | NO     | YES  | 15.7          | 142.79    | 4,113  | 6.5              | 54.45     | 815   |
|             | YES    | NO   | 47.6          | 389.48    | 6,306  | 15.9             | 101.42    | 2,568 |
|             | YES    | YES  | 139.3         | 1529.86   | 1,802  | 9.3              | 70.86     | 647   |
| 2021        |        |      | 50.4          | 655.74    | 12,289 | 12.9             | 89.13     | 4,046 |
| 2019        | NO     | NO   | 64.9          | 320.12    | 57     | 0.5              | 1.24      | 17    |
|             | NO     | YES  | 14.5          | 121.88    | 4,271  | 4.8              | 30.64     | 863   |
|             | YES    | NO   | 55.1          | 644.68    | 6,577  | 18.7             | 111.87    | 2,719 |
|             | YES    | YES  | 150.7         | 2009.29   | 1,852  | 18.8             | 237.34    | 659   |
| 2019        |        |      | 55.4          | 898.55    | 12,757 | 15.8             | 130.08    | 4,258 |
| 2018        | NO     | NO   | 49.5          | 269.24    | 58     | 0.5              | 1.31      | 15    |
|             | NO     | YES  | 12.4          | 97.41     | 4,400  | 5.9              | 37.58     | 848   |
|             | YES    | NO   | 60.3          | 820.98    | 6,672  | 20.4             | 145.42    | 2,792 |
|             | YES    | YES  | 130.4         | 1922.39   | 1,882  | 9.7              | 71.49     | 665   |
| 2018        |        |      | 54.2          | 940.65    | 13,012 | 15.8             | 121.52    | 4,320 |

# Color-Coded Analysis of Air Pollution and Stream Discharge

Limited to Chemicals Classified as PBT

Excluding 2020

|   |        |      | Air Pollution |           |        | Stream Discharge |           |       |
|---|--------|------|---------------|-----------|--------|------------------|-----------|-------|
| Report Year   | HazAir | Carc | Mean          | Std. Dev. | Count  | Mean             | Std. Dev. | Count |
| 2023  | NO     | NO   | 26.7          | 263.49    | 132    | 0.4              | 1.12      | 21    |
|   | NO     | YES  | 42.5          | 1536.16   | 4,064  | 7.7              | 92.15     | 897   |
|   | YES    | NO   | 44.9          | 382.49    | 6,119  | 15.7             | 108.74    | 2,528 |
|   | YES    | YES  | 147.0         | 1870.62   | 1,763  | 12.8             | 160.73    | 597   |
| 2023  |        |      | 58.8          | 1175.00   | 12,078 | 13.4             | 114.43    | 4,043 |
| 2022  | NO     | NO   | 43.8          | 346.15    | 77     | 7.8              | 25.08     | 19    |
|   | NO     | YES  | 18.0          | 157.34    | 4,109  | 6.9              | 75.38     | 871   |
|   | YES    | NO   | 54.3          | 600.35    | 6,278  | 15.6             | 109.00    | 2,623 |
|   | YES    | YES  | 128.2         | 1515.49   | 1,825  | 7.4              | 68.29     | 646   |
| 2022  |        |      | 53.0          | 731.64    | 12,289 | 12.5             | 97.07     | 4,159 |
| 2021  | NO     | NO   | 49.7          | 368.77    | 68     | 9.4              | 26.95     | 16    |
|   | NO     | YES  | 15.7          | 142.79    | 4,113  | 6.5              | 54.45     | 815   |
|   | YES    | NO   | 47.6          | 389.48    | 6,306  | 15.9             | 101.42    | 2,568 |
|   | YES    | YES  | 139.3         | 1529.86   | 1,802  | 9.3              | 70.86     | 647   |
| 2021  |        |      | 50.4          | 655.74    | 12,289 | 12.9             | 89.13     | 4,046 |
| 2019  | NO     | NO   | 64.9          | 320.12    | 57     | 0.5              | 1.24      | 17    |
|   | NO     | YES  | 14.5          | 121.88    | 4,271  | 4.8              | 30.64     | 863   |
|   | YES    | NO   | 55.1          | 644.68    | 6,577  | 18.7             | 111.87    | 2,719 |
|   | YES    | YES  | 150.7         | 2009.29   | 1,852  | 18.8             | 237.34    | 659   |
| 2019  |        |      | 55.4          | 898.55    | 12,757 | 15.8             | 130.08    | 4,258 |
| 2018  | NO     | NO   | 49.5          | 269.24    | 58     | 0.5              | 1.31      | 15    |
|   | NO     | YES  | 12.4          | 97.41     | 4,400  | 5.9              | 37.58     | 848   |
|   | YES    | NO   | 60.3          | 820.98    | 6,672  | 20.4             | 145.42    | 2,792 |
|   | YES    | YES  | 130.4         | 1922.39   | 1,882  | 9.7              | 71.49     | 665   |
| 2018  |        |      | 54.2          | 940.65    | 13,012 | 15.8             | 121.52    | 4,320 |
| Air Pollutant Color-Coding:0, <25, 25-50, 50-100, >10 |        |      |               |           |        |                  |           |       |

# Color-Coded\* Analysis of Air Pollution and Stream Discharge

Limited to Chemicals Classified as PBT

Excluding 2020

|  |        |      | Air Pollution |           |        | Stream Discharge |           |       |
|--|--------|------|---------------|-----------|--------|------------------|-----------|-------|
| Report Year  | HazAir | Carc | Mean          | Std. Dev. | Count  | Mean             | Std. Dev. | Count |
| 2023   | NO     | NO   | 26.7          | 263.49    | 132    | 0.4              | 1.12      | 21    |
|  | NO     | YES  | 42.5          | 1536.16   | 4,064  | 7.7              | 92.15     | 897   |
|  | YES    | NO   | 44.9          | 382.49    | 6,119  | 15.7             | 108.74    | 2,528 |
|  | YES    | YES  | 147.0         | 1870.62   | 1,763  | 12.8             | 160.73    | 597   |
| 2023   |        |      | 58.8          | 1175.00   | 12,078 | 13.4             | 114.43    | 4,043 |
| 2022   | NO     | NO   | 43.8          | 346.15    | 77     | 7.8              | 25.08     | 19    |
|  | NO     | YES  | 18.0          | 157.34    | 4,109  | 6.9              | 75.38     | 871   |
|  | YES    | NO   | 54.3          | 600.35    | 6,278  | 15.6             | 109.00    | 2,623 |
|  | YES    | YES  | 128.2         | 1515.49   | 1,825  | 7.4              | 68.29     | 646   |
| 2022   |        |      | 53.0          | 731.64    | 12,289 | 12.5             | 97.07     | 4,159 |
| 2021   | NO     | NO   | 49.7          | 368.77    | 68     | 9.4              | 26.95     | 16    |
|  | NO     | YES  | 15.7          | 142.79    | 4,113  | 6.5              | 54.45     | 815   |
|  | YES    | NO   | 47.6          | 389.48    | 6,306  | 15.9             | 101.42    | 2,568 |
|  | YES    | YES  | 139.3         | 1529.86   | 1,802  | 9.3              | 70.86     | 647   |
| 2021   |        |      | 50.4          | 655.74    | 12,289 | 12.9             | 89.13     | 4,046 |
| 2019   | NO     | NO   | 64.9          | 320.12    | 57     | 0.5              | 1.24      | 17    |
|  | NO     | YES  | 14.5          | 121.88    | 4,271  | 4.8              | 30.64     | 863   |
|  | YES    | NO   | 55.1          | 644.68    | 6,577  | 18.7             | 111.87    | 2,719 |
|  | YES    | YES  | 150.7         | 2009.29   | 1,852  | 18.8             | 237.34    | 659   |
| 2019   |        |      | 55.4          | 898.55    | 12,757 | 15.8             | 130.08    | 4,258 |
| 2018   | NO     | NO   | 49.5          | 269.24    | 58     | 0.5              | 1.31      | 15    |
|  | NO     | YES  | 12.4          | 97.41     | 4,400  | 5.9              | 37.58     | 848   |
|  | YES    | NO   | 60.3          | 820.98    | 6,672  | 20.4             | 145.42    | 2,792 |
|  | YES    | YES  | 130.4         | 1922.39   | 1,882  | 9.7              | 71.49     | 665   |
| 2018   |        |      | 54.2          | 940.65    | 13,012 | 15.8             | 121.52    | 4,320 |
| CarcFL=N coloring:0, <25, 25-50, 50-100, >100<br>CarcFL=Y coloring:0, <40, 40-80, 80-100, >100 |        |      |               |           |        |                  |           |       |