

**INFLUENT STRENGTH ( Heart of the Valley Metropolitan Sewerage Facility)**

November 2021

| MONTH                 | FLOW              |         | TSS      |           |                | BOD      |           |               | TOTAL PHOSPHORUS |           |               | AMMONIA  |           |               | CHLORIDE |           |               |
|-----------------------|-------------------|---------|----------|-----------|----------------|----------|-----------|---------------|------------------|-----------|---------------|----------|-----------|---------------|----------|-----------|---------------|
|                       | Million * Gallons | Avg MGD | Avg mg/L | Avg #/day | Total # /Month | Avg mg/L | Avg #/day | Total # Month | Avg mg/L         | Avg #/day | Total # Month | Avg mg/L | Avg #/day | Total # Month | Avg mg/L | Avg #/day | Total # Month |
| Jan                   | 151.4             | 4.9     | 217      | 8,736     | 270,817        | 300      | 12,085    | 374,624       | 6.05             | 243       | 7,528         | 49.0     | 1961      | 60,780        | 702      | 28,228    | 875,077       |
| Feb                   | 135.2             | 4.8     | 231      | 8,334     | 258,362        | 311      | 12,383    | 346,731       | 5.91             | 235       | 6,583         | 46.4     | 1641      | 50,873        | 796      | 28,751    | 891,291       |
| Mar                   | 227.7             | 7.3     | 150      | 9,098     | 282,028        | 212      | 12,818    | 397,347       | 3.89             | 234       | 7,264         | 32.0     | 1,929     | 59,806        | 590      | 35,765    | 1,108,705     |
| Apr                   | 202.9             | 6.8     | 179      | 9,975     | 299,254        | 231      | 12,852    | 385,562       | 4.36             | 241       | 7,241         | 34.4     | 1,790     | 55,483        | 580      | 30,560    | 916,811       |
| May                   | 198.4             | 6.4     | 182      | 9,555     | 296,212        | 264      | 13,942    | 432,203       | 4.92             | 260       | 8,054         | 37.9     | 1,926     | 59,693        | 631      | 34,789    | 1,043,666     |
| June                  | 191.7             | 6.4     | 204      | 10,428    | 312,840        | 296      | 14,746    | 442,373       | 5.10             | 255       | 7,646         | 37.4     | 1,831     | 54,919        | 679      | 33,103    | 993,089       |
| Jul                   | 259.3             | 8.4     | 163      | 11,266    | 349,258        | 203      | 13,606    | 421,799       | 3.63             | 243       | 7,536         | 28.3     | 1,872     | 58,018        | 499      | 32,811    | 1,017,148     |
| Aug                   | 260.4             | 8.4     | 169      | 11,585    | 359,123        | 227      | 15,206    | 471,381       | 3.97             | 262       | 8,128         | 30.6     | 1,937     | 60,050        | 613      | 39,244    | 1,216,557     |
| Sep                   | 192.1             | 6.4     | 219      | 11,634    | 349,029        | 256      | 13,525    | 405,741       | 4.82             | 254       | 7,613         | 37.4     | 1,983     | 59,503        | 634      | 33,372    | 1,001,147     |
| Oct                   | 170.5             | 5.5     | 234      | 10,694    | 331,525        | 315      | 14,406    | 446,579       | 5.71             | 260       | 8,075         | 43.7     | 2,054     | 61,625        | 624      | 29,640    | 889,197       |
| Nov                   | 145.0             | 4.8     | 268      | 10,811    | 324,317        | 357      | 14,387    | 431,606       | 6.57             | 265       | 7,941         | 49.8     | 2,001     | 60,044        | 714      | 28,380    | 851,408       |
| Dec                   |                   |         |          |           |                |          |           |               |                  |           |               |          |           |               |          |           |               |
| <b>Yearly Average</b> | 194.1             | 6.4     | 201      | 10,192    | 312,070        | 270      | 13,632    | 414,177       | 4.99             | 250       | 7,601         | 38.8     | 1,902     | 58,254        | 642      | 32,240    | 982,191       |
| <b>Yearly Total</b>   | 2,134.7           |         |          |           | 3,432,765      |          |           | 4,555,947     |                  |           | 83,609        |          |           | 640,793       |          |           | 10,804,096    |

\*Includes Hauled Waste  
[Plant Design Capacity] →

8.5

13,565

12,209

339

1,600

(Hauled Waste Gallons)= 190,150

[Max Design Capacity] →

11.9

16,278

14,651

407

1,920

November % of Max Capacity →

41%

66%

98%

65%

104%

November Max Daily Flow (MGD) 5.59

**EFFLUENT QUALITY**

| MONTH                 | FLOW            |         | TSS      |           |                | BOD      |           |               | TOTAL PHOSPHORUS |           |               | AMMONIA  |           |               | CHLORIDE |
|-----------------------|-----------------|---------|----------|-----------|----------------|----------|-----------|---------------|------------------|-----------|---------------|----------|-----------|---------------|----------|
|                       | Million Gallons | Avg MGD | Avg mg/L | Avg #/day | Total # /Month | Avg mg/L | Avg #/day | Total # Month | Avg mg/L         | Avg #/day | Total # Month | Avg mg/L | Avg #/day | Total # Month | Avg mg/L |
| Jan                   | 63.8            | 2.1     | 10.9     | 185       | 5,721          | 9.3      | 160       | 4,957         | 0.31             | 5.2       | 163           | 0.42     | 7.8       | 242           | 707      |
| Feb                   | 66.3            | 2.4     | 11       | 206       | 5,759          | 10       | 196       | 5,499         | 0.31             | 5.9       | 167           | 0.42     | 7.7       | 238           | 808      |
| Mar                   | 136.9           | 4.4     | 7.1      | 259       | 8,037          | 7.0      | 260       | 8,070         | 0.20             | 7.4       | 229           | 0.28     | 10.0      | 310           | 603      |
| Apr                   | 123.5           | 4.1     | 6.5      | 222       | 6,664          | 5.8      | 198       | 5,945         | 0.19             | 6.4       | 193           | 0.31     | 10.2      | 315           | 600      |
| May                   | 138.3           | 4.5     | 5.8      | 211       | 6,552          | 6.2      | 221       | 6,864         | 0.28             | 9.8       | 304           | 0.38     | 13.0      | 404           | 656      |
| June                  | 93.5            | 3.1     | 9.8      | 290       | 8,712          | 9.9      | 262       | 7,865         | 0.37             | 9.4       | 281           | 0.37     | 7.7       | 240           | 673      |
| Jul                   | 165.4           | 5.3     | 15.1     | 725       | 22,480         | 13.5     | 628       | 19,465        | 0.34             | 15.4      | 477           | 0.45     | 21.1      | 654           | 493      |
| Aug                   | 158.2           | 5.1     | 13.6     | 581       | 18,018         | 12.0     | 490       | 15,188        | 0.31             | 12.6      | 392           | 0.42     | 15.3      | 476           | 561      |
| Sep                   | 114.8           | 3.8     | 15.9     | 492       | 14,770         | 11.2     | 343       | 10,305        | 0.40             | 12.3      | 369           | 0.53     | 15.9      | 492           | 654      |
| Oct                   | 108.4           | 3.5     | 17.0     | 475       | 14,722         | 12.2     | 337       | 10,441        | 0.41             | 11.7      | 363           | 0.52     | 15.3      | 473           | 642      |
| Nov                   | 54.3            | 1.8     | 19.5     | 294       | 8,811          | 12.9     | 197       | 5,905         | 0.53             | 7.7       | 231           | 0.56     | 9.4       | 292           | 700      |
| Dec                   |                 |         |          |           |                |          |           |               |                  |           |               |          |           |               |          |
| <b>Yearly Average</b> | 111.2           | 3.6     | 12.0     | 358       | 10,931         | 10.0     | 299.4     | 9,137         | 0.33             | 9.4       | 288           | 0.42     | 12.1      | 375.9         | 645      |
| <b>Yearly Total</b>   | 1,223.4         |         |          |           | 120,245        |          |           | 100,504       |                  |           | 3,168         |          |           | 4,134.7       |          |

  

|  |        |     |
|--|--------|-----|
| Effluent Gallons to Fox Energy<br>(November) | WEEK 1 | 286 |
|  | WEEK 2 | 337 |
|  | WEEK 3 | 264 |
|  | WEEK 4 | 283 |

  

|                 |                 |
|-----------------|-----------------|
| Million Gallons | % to Fox Energy |
| 90.71           | 63%             |

  

|          |         |             |      |           |
|----------|---------|-------------|------|-----------|
| November | Avg #'s | 6 mo. Avg # | 7.68 | Nov-April |
|----------|---------|-------------|------|-----------|

  

|                          |                  |       |              |         |                |       |                   |          |
|--------------------------|------------------|-------|--------------|---------|----------------|-------|-------------------|----------|
| {PERMIT LIMITS (WDNR) →} | Monthly (Avg)    | 801#  | Monthly Avg  | 30 mg/L | Monthly Avg    | 31.5# | Monthly Avg Limit | 10 mg/L  |
|                          | Weekly (Avg)     | 1345# | Weekly Avg   | 45 mg/L | 6 mo Avg       | 10.5# | Monthly Avg Limit | 11 mg/L  |
|                          | Daily Max (mg/L) | 30    | WLA June-Oct |         | Daily Max mg/L | 1.0   | Monthly Avg Limit | 4.4 mg/L |
|                          |                  |       |              |         |                |       | Monthly Avg Limit | 18 mg/L  |

