



US Army Corps  
of Engineers

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
3-1-13 to 3-7-13

| Reading Time (EST) | Wind Direction<br>Degrees Clockwise<br>From North | Wind Speed<br>mph | Particulates (µg/m <sup>3</sup> ) |          |                     |      |       |       |       |        | Naphthalene (µg/m <sup>3</sup> ) |                     |      |      |      |      |      |  |
|--------------------|---|-------------------|-----------------------------------|----------|---------------------|------|-------|-------|-------|--------|----------------------------------|---------------------|------|------|------|------|------|--|
|                    |   |                   | Upwind                            | Downwind | CDF<br>Contribution | M1   | M2    | M3    | M4    | Upwind | Downwind                         | CDF<br>Contribution | M1   | M2   | M3   | M4   |      |  |
| 3/1/13 12:00 AM    | 0.00  | 5.80              | 4.10                              | 5.40     | 1.30                | 4.10 | 1.10  | 5.40  | 4.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 12:15 AM    | 357.00  | 5.80              | 4.00                              | 4.80     | 0.80                | 4.00 | 1.10  | 4.80  | 4.70  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 12:30 AM    | 0.00  | 7.60              | 5.00                              | 1.20     | 0.00                | 4.50 | 1.20  | 4.90  | 5.00  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 12:45 AM    | 2.00  | 7.00              | 4.40                              | 5.50     | 1.10                | 4.40 | 1.50  | 5.50  | 5.90  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 1:00 AM     | 359.00  | 7.00              | 4.70                              | 6.20     | 1.50                | 4.70 | 1.60  | 6.20  | 6.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 1:15 AM     | 359.00  | 6.50              | 6.30                              | 1.60     | 0.00                | 4.50 | 1.60  | 7.00  | 6.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 1:30 AM     | 7.00  | 7.90              | 6.10                              | 2.10     | 0.00                | 4.70 | 2.10  | 6.10  | 6.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 1:45 AM     | 353.00  | 6.00              | 4.70                              | 6.40     | 1.70                | 4.70 | 2.60  | 6.40  | 6.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 2:00 AM     | 359.00  | 5.40              | 5.90                              | 3.10     | 0.00                | 4.60 | 3.10  | 6.00  | 5.90  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 2:15 AM     | 1.00  | 6.60              | 6.20                              | 6.80     | 0.60                | 0.00 | 6.80  | 5.30  | 6.20  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 2:30 AM     | 2.00  | 6.00              | 4.50                              | 4.70     | 0.20                | 4.50 | 8.10  | 4.70  | 5.90  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 2:45 AM     | 3.00  | 6.60              | 4.30                              | 3.70     | 0.00                | 4.30 | 7.20  | 3.70  | 5.20  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 3:00 AM     | 3.00  | 6.20              | 4.50                              | 4.20     | 0.00                | 4.50 | 7.70  | 4.20  | 5.50  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 3:15 AM     | 358.00  | 4.70              | 4.60                              | 4.80     | 0.20                | 4.60 | 8.50  | 4.80  | 5.20  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 3:30 AM     | 342.00  | 3.60              | 5.40                              | 6.50     | 1.10                | 5.10 | 6.50  | 4.30  | 5.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 3:45 AM     | 333.00  | 3.70              | 6.00                              | 5.90     | 0.00                | 4.50 | 5.90  | 4.40  | 6.00  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 4:00 AM     | 336.00  | 4.10              | 6.70                              | 7.40     | 0.70                | 5.20 | 7.40  | 5.90  | 6.70  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 4:15 AM     | 347.00  | 3.70              | 6.90                              | 7.50     | 0.60                | 5.50 | 7.50  | 6.10  | 6.90  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 4:30 AM     | 335.00  | 3.60              | 6.90                              | 7.90     | 1.00                | 5.50 | 7.90  | 6.50  | 6.90  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 4:45 AM     | 339.00  | 3.30              | 7.70                              | 7.70     | 0.00                | 5.90 | 7.70  | 7.00  | 7.70  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 5:00 AM     | 346.00  | 3.60              | 10.30                             | 7.70     | 0.00                | 6.10 | 7.70  | 7.50  | 10.30 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 5:15 AM     | 330.00  | 3.00              | 7.30                              | 7.30     | 0.00                | 6.10 | 7.30  | 6.90  | 7.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 5:30 AM     | 335.00  | 4.40              | 4.70                              | 5.80     | 1.10                | 6.20 | 5.80  | 5.50  | 4.70  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 5:45 AM     | 321.00  | 4.20              | 3.00                              | 5.10     | 2.10                | 5.80 | 5.10  | 4.50  | 3.00  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 6:00 AM     | 333.00  | 3.10              | 2.60                              | 3.50     | 0.90                | 6.00 | 3.50  | 3.20  | 2.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 6:15 AM     | 326.00  | 4.60              | 2.30                              | 3.10     | 0.80                | 5.90 | 3.10  | 2.40  | 2.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 6:30 AM     | 336.00  | 3.90              | 2.30                              | 3.10     | 0.80                | 5.60 | 3.10  | 2.40  | 2.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 6:45 AM     | 357.00  | 2.60              | 2.70                              | 7.90     | 5.20                | 5.80 | 7.90  | 2.50  | 2.70  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 7:00 AM     | 337.00  | 3.60              | 3.00                              | 9.50     | 6.50                | 6.40 | 9.50  | 3.10  | 3.00  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 7:15 AM     | 32.00   | 6.40              | 4.40                              | 11.50    | 7.10                | 5.40 | 11.50 | 4.80  | 4.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 7:30 AM     | 33.00   | 6.10              | 4.70                              | 4.30     | 0.00                | 4.70 | 5.90  | 4.30  | 4.50  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 7:45 AM     | 35.00   | 6.40              | 4.50                              | 4.30     | 0.00                | 4.50 | 6.80  | 4.30  | 3.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 8:00 AM     | 38.00   | 4.50              | 4.50                              | 4.30     | 0.00                | 4.50 | 3.40  | 4.30  | 2.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 8:15 AM     | 34.00   | 5.60              | 0.00                              | 3.80     | 0.00                | 0.00 | 5.00  | 3.80  | 2.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 8:30 AM     | 35.00   | 7.00              | 4.30                              | 3.50     | 0.00                | 4.30 | 6.60  | 3.50  | 1.90  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 8:45 AM     | 44.00   | 5.40              | 4.50                              | 4.10     | 0.00                | 4.50 | 2.30  | 4.10  | 2.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 9:00 AM     | 39.00   | 7.60              | 4.80                              | 4.50     | 0.00                | 4.80 | 4.70  | 4.50  | 2.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 9:15 AM     | 27.00   | 7.20              | 4.70                              | 4.50     | 0.00                | 4.70 | 6.60  | 4.50  | 2.20  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 9:30 AM     | 43.00   | 7.70              | 4.90                              | 5.30     | 0.40                | 4.90 | 6.00  | 5.30  | 3.50  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 9:45 AM     | 34.00   | 4.60              | 6.60                              | 10.30    | 3.70                | 6.60 | 7.40  | 10.30 | 4.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 10:00 AM    | 31.00   | 6.50              | 5.90                              | 9.20     | 3.30                | 5.90 | 8.40  | 9.20  | 6.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 10:15 AM    | 31.00   | 6.70              | 5.70                              | 8.30     | 2.60                | 5.70 | 9.00  | 8.30  | 7.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 10:30 AM    | 30.00   | 6.80              | 4.90                              | 7.80     | 2.90                | 4.90 | 6.70  | 7.80  | 6.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 10:45 AM    | 32.00   | 7.30              | 4.90                              | 8.10     | 3.20                | 4.90 | 6.20  | 8.10  | 9.70  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 11:00 AM    | 30.00   | 6.60              | 5.50                              | 10.80    | 5.30                | 5.50 | 10.60 | 10.80 | 7.50  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 11:15 AM    | 36.00   | 6.10              | 5.10                              | 6.20     | 1.10                | 5.10 | 5.90  | 6.20  | 7.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 11:30 AM    | 32.00   | 8.80              | 5.40                              | 7.00     | 1.60                | 5.40 | 6.10  | 7.00  | 8.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 11:45 AM    | 30.00   | 7.00              | 5.00                              | 5.90     | 0.90                | 5.00 | 5.50  | 5.90  | 7.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 12:00 PM    | 27.00   | 8.70              | 5.00                              | 6.70     | 1.70                | 5.00 | 6.20  | 6.70  | 8.70  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 12:15 PM    | 33.00   | 8.40              | 4.80                              | 6.20     | 1.40                | 4.80 | 6.60  | 6.20  | 10.00 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 12:30 PM    | 38.00   | 8.40              | 4.90                              | 6.70     | 1.80                | 4.90 | 4.80  | 6.70  | 9.20  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 12:45 PM    | 39.00   | 7.30              | 5.20                              | 8.30     | 3.10                | 5.20 | 5.60  | 8.30  | 9.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 1:00 PM     | 45.00   | 7.90              | 0.00                              | 8.90     | 0.00                | 0.00 | 5.60  | 8.90  | 11.50 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 1:15 PM     | 32.00   | 8.60              | 5.30                              | 12.50    | 7.20                | 5.30 | 9.10  | 12.50 | 9.80  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 1:30 PM     | 31.00   | 8.50              | 5.60                              | 12.70    | 7.10                | 5.60 | 5.10  | 12.70 | 8.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 1:45 PM     | 28.00   | 9.60              | 0.00                              | 13.30    | 0.00                | 0.00 | 6.90  | 13.30 | 10.00 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 2:00 PM     | 37.00   | 8.30              | 0.00                              | 14.80    | 0.00                | 0.00 | 6.90  | 14.80 | 5.70  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 2:15 PM     | 26.00   | 9.90              | 5.80                              | 12.80    | 7.00                | 5.80 | 5.90  | 12.80 | 6.80  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 2:30 PM     | 25.00   | 9.40              | 5.30                              | 11.70    | 6.40                | 5.30 | 4.80  | 11.70 | 6.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 2:45 PM     | 37.00   | 8.10              | 5.20                              | 11.20    | 6.00                | 5.20 | 4.90  | 11.20 | 5.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 3:00 PM     | 34.00   | 7.70              | 4.90                              | 9.10     | 4.20                | 4.90 | 4.40  | 9.10  | 4.80  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 3:15 PM     | 33.00   | 10.20             | 5.40                              | 11.20    | 5.80                | 5.40 | 3.90  | 11.20 | 4.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 3:30 PM     | 18.00   | 11.00             | 4.70                              | 9.70     | 5.00                | 4.70 | 3.70  | 9.70  | 5.00  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 3:45 PM     | 17.00   | 9.10              | 5.60                              | 8.50     | 2.90                | 5.60 | 3.00  | 8.50  | 4.50  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 4:00 PM     | 20.00   | 9.10              | 4.80                              | 7.10     | 2.30                | 4.80 | 3.50  | 7.10  | 3.70  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 4:15 PM     | 12.00   | 7.70              | 5.10                              | 7.60     | 2.50                | 5.10 | 6.50  | 7.60  | 4.90  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 4:30 PM     | 15.00   | 8.70              | 5.20                              | 7.50     | 2.30                | 5.20 | 5.10  | 7.50  | 4.50  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/1/13 4:45 PM     | 14.00   | 8.00              | 5.20                              | 7.50     | 2.30                | 5.20 | 7.30  | 7.50  | 4.50  | 0.00   | 0.00                             | 0                   |      |      |      |      |      |  |



US Army Corps  
of Engineers

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
3-1-13 to 3-7-13

| Reading Time (EST) | Wind Direction<br>Degrees Clockwise<br>From North | Wind Speed<br>mph | Particulates (µg/m <sup>3</sup> ) |          |                     |      |       |       |       |        | Naphthalene (µg/m <sup>3</sup> ) |                     |      |      |      |      |  |  |
|--------------------|---|-------------------|-----------------------------------|----------|---------------------|------|-------|-------|-------|--------|----------------------------------|---------------------|------|------|------|------|--|--|
|                    |   |                   | Upwind                            | Downwind | CDF<br>Contribution | M1   | M2    | M3    | M4    | Upwind | Downwind                         | CDF<br>Contribution | M1   | M2   | M3   | M4   |  |  |
| 3/2/13 11:45 PM    | 25.00   | 6.60              | 5.00                              | 5.60     | 0.60                | 5.00 | 5.70  | 5.60  | 4.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 12:00 AM    | 25.00   | 4.40              | 5.00                              | 5.90     | 0.90                | 5.00 | 5.60  | 5.90  | 4.50  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 12:15 AM    | 8.00  | 5.90              | 5.60                              | 6.00     | 0.40                | 5.60 | 5.30  | 6.00  | 4.70  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 12:30 AM    | 7.00  | 7.40              | 5.40                              | 6.10     | 0.70                | 5.40 | 6.20  | 6.10  | 4.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 12:45 AM    | 16.00   | 8.00              | 5.20                              | 6.10     | 0.90                | 5.20 | 5.80  | 6.10  | 4.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 1:00 AM     | 4.00  | 8.30              | 5.40                              | 5.90     | 0.50                | 5.40 | 9.80  | 5.90  | 5.00  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 1:15 AM     | 2.00  | 8.10              | 4.80                              | 5.30     | 0.50                | 4.80 | 5.10  | 5.30  | 5.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 1:30 AM     | 4.00  | 8.30              | 4.90                              | 5.40     | 0.50                | 4.90 | 6.90  | 5.40  | 5.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 1:45 AM     | 12.00   | 7.80              | 4.90                              | 5.50     | 0.60                | 4.90 | 6.10  | 5.50  | 5.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 2:00 AM     | 26.00   | 8.70              | 5.20                              | 4.70     | 0.00                | 5.20 | 6.20  | 4.70  | 5.00  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 2:15 AM     | 23.00   | 8.80              | 5.30                              | 4.20     | 0.00                | 5.30 | 5.70  | 4.20  | 4.80  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 2:30 AM     | 45.00   | 5.20              | 5.30                              | 3.60     | 0.00                | 5.30 | 6.30  | 3.60  | 5.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 2:45 AM     | 60.00   | 5.20              | 5.40                              | 3.30     | 0.00                | 5.40 | 6.70  | 3.30  | 5.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 3:00 AM     | 52.00   | 3.30              | 8.30                              | 10.20    | 1.90                | 8.30 | 28.60 | 10.20 | 12.90 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 3:15 AM     | 42.00   | 7.80              | 7.70                              | 6.00     | 0.00                | 7.70 | 12.40 | 6.00  | 14.00 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 3:30 AM     | 26.00   | 9.60              | 6.90                              | 6.00     | 0.00                | 6.90 | 18.90 | 6.00  | 9.00  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 3:45 AM     | 45.00   | 8.40              | 6.50                              | 7.30     | 0.80                | 6.50 | 6.50  | 7.30  | 7.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 4:00 AM     | 43.00   | 8.70              | 5.60                              | 6.90     | 1.30                | 5.60 | 7.20  | 6.90  | 8.80  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 4:15 AM     | 43.00   | 7.90              | 5.70                              | 9.60     | 3.90                | 5.70 | 11.60 | 9.60  | 9.00  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 4:30 AM     | 48.00   | 8.10              | 6.20                              | 9.60     | 3.40                | 6.20 | 11.80 | 9.60  | 13.40 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 4:45 AM     | 40.00   | 7.40              | 6.40                              | 8.10     | 1.70                | 6.40 | 10.80 | 8.10  | 11.50 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 5:00 AM     | 34.00   | 7.90              | 5.50                              | 9.00     | 3.50                | 5.50 | 5.90  | 9.00  | 10.80 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 5:15 AM     | 50.00   | 6.60              | 6.10                              | 7.50     | 1.40                | 6.10 | 6.90  | 7.50  | 8.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 5:30 AM     | 17.00   | 7.60              | 6.40                              | 9.50     | 3.10                | 6.40 | 6.30  | 9.50  | 6.20  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 5:45 AM     | 19.00   | 8.30              | 5.50                              | 7.30     | 1.80                | 5.50 | 5.10  | 7.30  | 4.90  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 6:00 AM     | 56.00   | 5.90              | 5.50                              | 5.40     | 0.00                | 5.50 | 5.10  | 5.40  | 4.50  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 6:15 AM     | 37.00   | 5.70              | 5.50                              | 5.20     | 0.00                | 5.50 | 3.50  | 5.20  | 5.00  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 6:30 AM     | 41.00   | 7.30              | 4.90                              | 5.00     | 0.10                | 4.90 | 3.50  | 5.00  | 4.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 6:45 AM     | 32.00   | 4.90              | 4.60                              | 6.50     | 1.90                | 4.60 | 5.00  | 6.50  | 4.90  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 7:00 AM     | 18.00   | 6.40              | 4.80                              | 5.00     | 0.20                | 4.80 | 3.90  | 5.00  | 3.70  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 7:15 AM     | 20.00   | 6.40              | 5.00                              | 6.30     | 1.30                | 5.00 | 4.60  | 6.30  | 4.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 7:30 AM     | 0.00  | 7.10              | 4.70                              | 5.20     | 0.50                | 4.70 | 5.80  | 5.20  | 3.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 7:45 AM     | 33.00   | 6.60              | 4.40                              | 5.50     | 1.10                | 4.40 | 4.60  | 5.50  | 3.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 8:00 AM     | 43.00   | 7.00              | 6.00                              | 5.20     | 0.00                | 6.00 | 8.20  | 5.20  | 3.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 8:15 AM     | 35.00   | 7.60              | 4.70                              | 7.50     | 2.80                | 4.70 | 2.60  | 7.50  | 4.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 8:30 AM     | 19.00   | 7.20              | 4.90                              | 7.60     | 2.70                | 4.90 | 2.60  | 7.60  | 4.50  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 8:45 AM     | 359.00  | 7.30              | 4.50                              | 7.60     | 3.10                | 4.50 | 3.10  | 7.60  | 4.50  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 9:00 AM     | 2.00  | 6.10              | 5.30                              | 10.70    | 5.40                | 5.40 | 10.70 | 8.60  | 5.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 9:15 AM     | 2.00  | 5.10              | 5.60                              | 8.50     | 2.90                | 5.60 | 14.90 | 8.50  | 6.20  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 9:30 AM     | 7.00  | 9.30              | 5.90                              | 7.30     | 1.40                | 5.90 | 8.30  | 7.30  | 7.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 9:45 AM     | 3.00  | 5.40              | 5.60                              | 6.30     | 0.00                | 5.60 | 6.10  | 5.60  | 6.80  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 10:00 AM    | 3.00  | 5.80              | 5.40                              | 5.00     | 0.00                | 5.40 | 6.60  | 5.00  | 6.80  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 10:15 AM    | 5.00  | 6.10              | 5.90                              | 6.20     | 0.30                | 5.90 | 6.40  | 6.20  | 9.80  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 10:30 AM    | 343.00  | 4.60              | 5.30                              | 4.70     | 0.00                | 5.30 | 5.70  | 4.70  | 8.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 10:45 AM    | 1.00  | 5.10              | 7.30                              | 6.20     | 0.00                | 5.40 | 6.20  | 6.40  | 7.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 11:00 AM    | 9.00  | 7.60              | 5.10                              | 5.90     | 0.80                | 5.10 | 9.30  | 5.90  | 5.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 11:15 AM    | 355.00  | 4.40              | 4.50                              | 5.10     | 0.60                | 4.50 | 4.80  | 5.10  | 5.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 11:30 AM    | 1.00  | 6.70              | 5.40                              | 5.80     | 0.40                | 5.10 | 5.80  | 5.80  | 5.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 11:45 AM    | 359.00  | 6.50              | 4.90                              | 6.70     | 1.80                | 4.90 | 9.00  | 6.70  | 5.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 12:00 PM    | 0.00  | 6.20              | 4.40                              | 7.20     | 2.80                | 4.40 | 7.20  | 6.80  | 4.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 12:15 PM    | 8.00  | 8.00              | 3.80                              | 6.50     | 2.70                | 3.80 | 7.10  | 6.50  | 4.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 12:30 PM    | 7.00  | 9.70              | 3.80                              | 6.10     | 2.30                | 3.80 | 7.30  | 6.10  | 3.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 12:45 PM    | 8.00  | 8.50              | 3.90                              | 6.60     | 2.70                | 3.90 | 9.30  | 6.60  | 4.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 1:00 PM     | 2.00  | 8.70              | 3.90                              | 6.80     | 2.90                | 3.90 | 13.10 | 6.80  | 4.00  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 1:15 PM     | 7.00  | 9.10              | 4.00                              | 11.30    | 7.30                | 4.00 | 16.20 | 11.30 | 4.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 1:30 PM     | 7.00  | 10.10             | 4.50                              | 9.30     | 4.80                | 4.50 | 16.10 | 9.30  | 4.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 1:45 PM     | 12.00   | 8.30              | 4.10                              | 8.40     | 4.30                | 4.10 | 11.60 | 8.40  | 4.20  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 2:00 PM     | 6.00  | 8.00              | 4.10                              | 8.40     | 4.30                | 4.10 | 12.50 | 8.40  | 4.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 2:15 PM     | 10.00   | 9.80              | 4.40                              | 15.60    | 11.20               | 4.40 | 20.80 | 15.60 | 5.80  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 2:30 PM     | 11.00   | 8.00              | 4.50                              | 11.10    | 6.60                | 4.50 | 14.50 | 11.10 | 5.70  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 2:45 PM     | 4.00  | 8.10              | 4.30                              | 10.50    | 6.20                | 4.30 | 11.60 | 10.50 | 6.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 3:00 PM     | 6.00  | 9.70              | 4.30                              | 11.60    | 7.30                | 4.30 | 11.30 | 11.60 | 5.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 3:15 PM     | 14.00   | 10.10             | 4.10                              | 10.40    | 6.30                | 4.10 | 8.90  | 10.40 | 4.90  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 3:30 PM     | 5.00  | 8.40              | 3.90                              | 9.70     | 5.80                | 3.90 | 8.20  | 9.70  | 5.00  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 3:45 PM     | 7.00  | 8.90              | 4.30                              | 8.80     | 4.50                | 4.30 | 9.00  | 8.80  | 4.90  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 4:00 PM     | 15.00   | 10.30             | 4.00                              | 10.20    | 6.20                | 4.00 | 8.60  | 10.20 | 4.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 4:15 PM     | 10.00   | 9.90              | 4.10                              | 8.80     | 4.70                | 4.10 | 10.00 | 8.80  | 4.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 4:30 PM     | 3.00  | 7.70              | 3.90                              | 9.30     | 5.40                | 3.90 | 10.10 | 9.30  | 5.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 4:45 PM     | 8.00  | 8.00              | 0.00                              | 9.00     | 0.00                | 0.00 | 7.20  | 9.00  | 4.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 5:00 PM     | 14.00   | 9.60              | 4.00                              | 9.00     | 5.00                | 4.00 | 9.10  | 9.00  | 4.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 5:15 PM     | 8.00  | 9.80              | 0.00                              | 7.60     | 0.00                | 0.00 | 9.70  | 7.60  | 3.70  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 3/2/13 5:30 PM     | 5.00  | 7.80              | 4.40                              | 7.10     | 2.70                | 4.40 | 10.30 |       |       |        |                                  |                     |      |      |      |      |  |  |





US Army Corps  
of Engineers

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
3-1-13 to 3-7-13

| Reading Time (EST) | Wind Direction<br>Degrees Clockwise<br>From North | Wind Speed<br>mph | Particulates (µg/m <sup>3</sup> ) |          |                     |       |       |       |       |        | Naphthalene (µg/m <sup>3</sup> ) |                     |      |      |      |      |      |  |
|--------------------|---|-------------------|-----------------------------------|----------|---------------------|-------|-------|-------|-------|--------|----------------------------------|---------------------|------|------|------|------|------|--|
|                    |   |                   | Upwind                            | Downwind | CDF<br>Contribution | M1    | M2    | M3    | M4    | Upwind | Downwind                         | CDF<br>Contribution | M1   | M2   | M3   | M4   |      |  |
| 3/3/13 11:30 PM    | 34.00   | 3.60              | 0.00                              | 7.30     | 0.00                | 0.00  | 14.40 | 7.30  | 11.20 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/3/13 11:45 PM    | 32.00   | 2.50              | 9.90                              | 7.60     | 0.00                | 9.90  | 9.50  | 7.60  | 9.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 12:00 AM    | 51.00   | 2.70              | 10.10                             | 7.60     | 0.00                | 10.10 | 8.90  | 7.60  | 10.30 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 12:15 AM    | 30.00   | 3.30              | 9.90                              | 8.90     | 0.00                | 9.90  | 10.40 | 8.90  | 9.70  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 12:30 AM    | 31.00   | 3.10              | 10.10                             | 7.90     | 0.00                | 10.10 | 16.10 | 7.90  | 10.10 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 12:45 AM    | 206.00  | 0.80              | 9.70                              | 7.80     | 0.00                | 9.70  | 20.80 | 7.80  | 11.40 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 1:00 AM     | 231.00  | 0.80              | 8.20                              | 10.50    | 2.30                | 10.50 | 17.70 | 8.20  | 10.20 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 1:15 AM     | 215.00  | 1.50              | 15.80                             | 13.80    | 0.00                | 13.80 | 36.10 | 15.80 | 13.20 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 1:30 AM     | 225.00  | 1.40              | 16.70                             | 15.20    | 0.00                | 15.20 | 35.00 | 16.70 | 16.40 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 1:45 AM     | 235.00  | 1.30              | 18.00                             | 15.70    | 0.00                | 15.70 | 34.40 | 18.00 | 17.60 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 2:00 AM     | 207.00  | 1.60              | 18.90                             | 16.30    | 0.00                | 16.30 | 32.20 | 18.90 | 19.40 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 2:15 AM     | 215.00  | 1.90              | 19.20                             | 16.70    | 0.00                | 16.70 | 26.90 | 19.20 | 20.40 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 2:30 AM     | 220.00  | 1.70              | 20.50                             | 17.70    | 0.00                | 17.70 | 23.60 | 20.50 | 19.70 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 2:45 AM     | 221.00  | 1.90              | 20.00                             | 18.00    | 0.00                | 18.00 | 23.30 | 20.00 | 19.30 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 3:00 AM     | 223.00  | 1.50              | 17.10                             | 16.10    | 0.00                | 16.10 | 19.60 | 17.10 | 19.20 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 3:15 AM     | 229.00  | 1.80              | 16.30                             | 16.00    | 0.00                | 16.00 | 18.90 | 16.30 | 18.60 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 3:30 AM     | 216.00  | 1.30              | 17.30                             | 16.00    | 0.00                | 16.00 | 18.30 | 17.30 | 18.70 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 3:45 AM     | 220.00  | 1.30              | 16.90                             | 14.60    | 0.00                | 14.60 | 17.10 | 16.90 | 18.50 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 4:00 AM     | 231.00  | 1.20              | 15.70                             | 15.10    | 0.00                | 15.10 | 18.10 | 15.70 | 20.10 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 4:15 AM     | 220.00  | 1.40              | 14.70                             | 14.90    | 0.20                | 14.90 | 18.20 | 14.70 | 16.30 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 4:30 AM     | 226.00  | 1.70              | 15.80                             | 15.40    | 0.00                | 15.40 | 15.70 | 15.80 | 17.30 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 4:45 AM     | 214.00  | 1.70              | 15.80                             | 15.10    | 0.00                | 15.10 | 15.10 | 15.80 | 17.10 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 5:00 AM     | 214.00  | 1.20              | 15.20                             | 14.50    | 0.00                | 14.50 | 14.60 | 15.20 | 17.40 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 5:15 AM     | 193.00  | 0.90              | 15.00                             | 14.20    | 0.00                | 14.20 | 16.90 | 15.00 | 16.10 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 5:30 AM     | 159.00  | 0.90              | 15.50                             | 13.90    | 0.00                | 13.90 | 18.50 | 15.50 | 16.30 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 5:45 AM     | 186.00  | 0.90              | 21.80                             | 17.60    | 0.00                | 13.80 | 21.80 | 14.20 | 17.60 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 6:00 AM     | 197.00  | 0.80              | 14.60                             | 16.90    | 2.30                | 16.90 | 35.90 | 14.60 | 16.00 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 6:15 AM     | 177.00  | 1.30              | 15.40                             | 16.70    | 1.30                | 16.70 | 35.00 | 15.40 | 16.20 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 6:30 AM     | 153.00  | 1.70              | 33.70                             | 17.30    | 0.00                | 15.80 | 33.70 | 15.70 | 17.30 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 6:45 AM     | 148.00  | 2.80              | 24.30                             | 21.60    | 0.00                | 15.80 | 24.30 | 19.70 | 21.60 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 7:00 AM     | 149.00  | 2.60              | 27.90                             | 17.10    | 0.00                | 25.80 | 27.90 | 18.80 | 17.10 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 7:15 AM     | 141.00  | 2.80              | 25.60                             | 31.60    | 6.00                | 48.90 | 25.60 | 21.40 | 31.60 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 7:30 AM     | 0.00  | 0.00              | 23.70                             | 42.70    | 19.00               | 44.30 | 23.70 | 17.30 | 42.70 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 7:45 AM     | 169.00  | 1.70              | 0.00                              | 0.00     | 0.00                | 44.10 | 19.10 | 17.90 | 24.00 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 8:00 AM     | 161.00  | 1.90              | 16.90                             | 18.00    | 1.10                | 18.10 | 16.90 | 15.80 | 18.00 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 8:15 AM     | 0.00  | 0.00              | 20.10                             | 19.20    | 0.00                | 19.40 | 20.10 | 15.80 | 19.20 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 8:30 AM     | 175.00  | 3.10              | 0.00                              | 0.00     | 0.00                | 19.30 | 18.00 | 17.60 | 17.10 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 8:45 AM     | 163.00  | 3.00              | 29.30                             | 31.30    | 2.00                | 24.60 | 29.30 | 16.10 | 31.30 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 9:00 AM     | 0.00  | 0.00              | 18.90                             | 20.50    | 1.60                | 25.00 | 18.90 | 13.40 | 20.50 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 9:15 AM     | 169.00  | 3.10              | 0.00                              | 0.00     | 0.00                | 22.70 | 19.30 | 13.10 | 17.30 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 9:30 AM     | 158.00  | 3.10              | 14.70                             | 15.10    | 0.40                | 20.80 | 14.70 | 11.70 | 15.10 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 9:45 AM     | 136.00  | 3.20              | 15.40                             | 17.10    | 1.70                | 22.40 | 15.40 | 10.70 | 17.10 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 10:00 AM    | 149.00  | 4.30              | 11.90                             | 13.30    | 1.40                | 16.10 | 11.90 | 10.20 | 13.30 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 10:15 AM    | 115.00  | 4.60              | 10.90                             | 13.20    | 2.30                | 17.40 | 10.90 | 10.60 | 13.20 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 10:30 AM    | 161.00  | 2.60              | 11.60                             | 15.90    | 4.30                | 17.60 | 11.60 | 10.70 | 15.90 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 10:45 AM    | 86.00   | 5.50              | 22.80                             | 26.50    | 3.70                | 0.00  | 22.80 | 16.70 | 26.50 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 11:00 AM    | 82.00   | 3.60              | 23.00                             | 21.80    | 0.00                | 23.00 | 36.90 | 21.80 | 17.50 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 11:15 AM    | 120.00  | 3.40              | 0.00                              | 21.80    | 0.00                | 0.00  | 29.10 | 21.80 | 19.00 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 11:30 AM    | 131.00  | 3.80              | 30.90                             | 18.80    | 0.00                | 18.70 | 30.90 | 20.10 | 18.80 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 11:45 AM    | 88.00   | 4.50              | 30.80                             | 19.50    | 0.00                | 23.30 | 30.80 | 21.40 | 19.50 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 12:00 PM    | 66.00   | 4.80              | 23.30                             | 20.20    | 0.00                | 23.30 | 25.80 | 20.20 | 18.30 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 12:15 PM    | 69.00   | 5.70              | 20.20                             | 16.40    | 0.00                | 20.20 | 17.20 | 16.40 | 16.10 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 12:30 PM    | 83.00   | 4.00              | 20.20                             | 21.40    | 1.20                | 20.20 | 22.30 | 21.40 | 16.20 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 12:45 PM    | 78.00   | 3.40              | 0.00                              | 16.20    | 0.00                | 0.00  | 27.00 | 16.20 | 18.40 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 1:00 PM     | 77.00   | 3.80              | 23.90                             | 16.00    | 0.00                | 23.90 | 19.70 | 16.00 | 15.10 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 1:15 PM     | 66.00   | 3.80              | 20.20                             | 18.00    | 0.00                | 20.20 | 22.40 | 18.00 | 14.20 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 1:30 PM     | 66.00   | 4.70              | 0.00                              | 16.80    | 0.00                | 0.00  | 21.90 | 16.80 | 14.10 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 1:45 PM     | 68.00   | 3.70              | 20.00                             | 18.90    | 0.00                | 20.00 | 21.40 | 18.90 | 15.70 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 2:00 PM     | 69.00   | 4.50              | 21.80                             | 21.00    | 0.00                | 21.80 | 24.20 | 21.00 | 15.60 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 2:15 PM     | 83.00   | 4.40              | 24.40                             | 20.70    | 0.00                | 24.40 | 30.60 | 20.70 | 19.40 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 2:30 PM     | 90.00   | 4.00              | 30.60                             | 22.90    | 0.00                | 30.60 | 29.70 | 22.90 | 26.20 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 2:45 PM     | 90.00   | 3.50              | 31.70                             | 23.80    | 0.00                | 30.20 | 31.70 | 29.90 | 23.80 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 3:00 PM     | 75.00   | 4.60              | 30.50                             | 26.10    | 0.00                | 25.90 | 30.50 | 27.20 | 26.10 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 3:15 PM     | 91.00   | 3.70              | 26.60                             | 20.50    | 0.00                | 26.60 | 24.60 | 20.50 | 22.50 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 3:30 PM     | 66.00   | 4.60              | 25.70                             | 29.20    | 3.50                | 35.00 | 25.70 | 27.90 | 29.20 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/4/13 3:45 PM     | 82.00   | 3.80              | 0.00                              | 27.20    | 0.00                | 0.00  | 40.90 | 27.20 | 37.00 | 0.00   | 0.00                             | 0.                  |      |      |      |      |      |  |





US Army Corps  
of Engineers

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
3-1-13 to 3-7-13

| Reading Time (EST) | Wind Direction<br>Degrees Clockwise<br>From North | Wind Speed<br>mph | Particulates (µg/m <sup>3</sup> ) |          |                     |       |       |       |       |        | Naphthalene (µg/m <sup>3</sup> ) |                     |      |      |      |      |      |  |
|--------------------|---|-------------------|-----------------------------------|----------|---------------------|-------|-------|-------|-------|--------|----------------------------------|---------------------|------|------|------|------|------|--|
|                    |   |                   | Upwind                            | Downwind | CDF<br>Contribution | M1    | M2    | M3    | M4    | Upwind | Downwind                         | CDF<br>Contribution | M1   | M2   | M3   | M4   |      |  |
| 3/5/13 11:00 PM    | 37.00   | 10.40             | 9.90                              | 8.30     | 0.00                | 9.90  | 4.30  | 8.30  | 6.80  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/5/13 11:15 PM    | 35.00   | 8.30              | 9.80                              | 9.10     | 0.00                | 9.80  | 4.40  | 9.10  | 8.00  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/5/13 11:30 PM    | 39.00   | 9.60              | 10.40                             | 8.90     | 0.00                | 10.40 | 4.10  | 8.90  | 8.00  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/5/13 11:45 PM    | 37.00   | 8.40              | 10.50                             | 9.70     | 0.00                | 10.50 | 4.20  | 9.70  | 7.80  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 12:00 AM    | 38.00   | 8.30              | 10.90                             | 9.70     | 0.00                | 10.90 | 5.00  | 9.70  | 8.80  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 12:15 AM    | 35.00   | 7.50              | 11.20                             | 7.40     | 0.00                | 11.20 | 5.30  | 7.40  | 8.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 12:30 AM    | 38.00   | 8.60              | 11.30                             | 7.40     | 0.00                | 11.30 | 4.60  | 7.40  | 9.80  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 12:45 AM    | 35.00   | 7.90              | 13.00                             | 9.30     | 0.00                | 13.00 | 6.50  | 9.30  | 10.50 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 1:00 AM     | 37.00   | 8.80              | 12.10                             | 9.40     | 0.00                | 12.10 | 7.00  | 9.40  | 10.80 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 1:15 AM     | 42.00   | 9.70              | 11.20                             | 8.90     | 0.00                | 11.20 | 6.20  | 8.90  | 9.80  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 1:30 AM     | 41.00   | 10.60             | 11.20                             | 8.90     | 0.00                | 11.20 | 6.20  | 8.90  | 9.80  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 1:45 AM     | 38.00   | 9.20              | 7.60                              | 6.70     | 0.00                | 7.60  | 3.30  | 6.70  | 7.00  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 2:00 AM     | 41.00   | 6.80              | 7.60                              | 7.60     | 0.00                | 7.60  | 4.40  | 7.60  | 8.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 2:15 AM     | 40.00   | 9.40              | 7.70                              | 8.50     | 0.80                | 7.70  | 3.60  | 8.50  | 8.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 2:30 AM     | 34.00   | 8.10              | 7.10                              | 9.40     | 2.30                | 7.10  | 3.10  | 9.40  | 6.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 2:45 AM     | 35.00   | 6.90              | 7.10                              | 7.80     | 0.70                | 7.10  | 2.70  | 7.80  | 6.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 3:00 AM     | 32.00   | 7.60              | 6.70                              | 8.00     | 1.30                | 6.70  | 2.20  | 8.00  | 6.20  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 3:15 AM     | 39.00   | 8.00              | 6.60                              | 6.90     | 0.30                | 6.60  | 2.50  | 6.90  | 7.00  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 3:30 AM     | 46.00   | 7.00              | 7.00                              | 7.20     | 0.20                | 7.00  | 2.30  | 7.20  | 7.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 3:45 AM     | 39.00   | 7.90              | 7.00                              | 7.40     | 0.40                | 7.00  | 2.30  | 7.40  | 7.70  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 4:00 AM     | 39.00   | 6.90              | 7.20                              | 6.90     | 0.00                | 7.20  | 2.60  | 6.90  | 8.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 4:15 AM     | 32.00   | 7.50              | 7.10                              | 5.60     | 0.00                | 7.10  | 2.80  | 5.60  | 9.00  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 4:30 AM     | 32.00   | 9.90              | 7.30                              | 5.00     | 0.00                | 7.30  | 3.10  | 5.00  | 8.20  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 4:45 AM     | 30.00   | 8.70              | 7.30                              | 4.60     | 0.00                | 7.30  | 3.30  | 4.60  | 7.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 5:00 AM     | 4.00  | 10.10             | 7.70                              | 5.20     | 0.00                | 7.70  | 5.00  | 5.20  | 8.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 5:15 AM     | 3.00  | 7.10              | 7.50                              | 5.30     | 0.00                | 7.50  | 5.60  | 5.30  | 9.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 5:30 AM     | 4.00  | 8.10              | 7.40                              | 6.30     | 0.00                | 7.40  | 5.90  | 6.30  | 9.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 5:45 AM     | 0.00  | 8.80              | 7.20                              | 6.60     | 0.00                | 7.20  | 5.90  | 6.60  | 9.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 6:00 AM     | 1.00  | 6.00              | 7.50                              | 7.30     | 0.00                | 7.50  | 6.00  | 7.30  | 9.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 6:15 AM     | 4.00  | 6.80              | 7.50                              | 8.20     | 0.70                | 7.50  | 6.60  | 8.20  | 9.80  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 6:30 AM     | 356.00  | 5.70              | 8.10                              | 7.50     | 0.40                | 8.10  | 7.30  | 8.50  | 10.80 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 6:45 AM     | 359.00  | 8.40              | 11.40                             | 8.60     | 0.00                | 8.10  | 7.60  | 9.90  | 11.40 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 7:00 AM     | 1.00  | 6.60              | 11.60                             | 7.90     | 0.00                | 8.30  | 7.90  | 9.60  | 11.60 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 7:15 AM     | 8.00  | 9.30              | 8.30                              | 10.50    | 2.20                | 8.30  | 8.20  | 10.50 | 11.60 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 7:30 AM     | 1.00  | 7.20              | 8.20                              | 10.50    | 2.30                | 8.20  | 8.40  | 10.50 | 11.70 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 7:45 AM     | 4.00  | 9.20              | 8.00                              | 10.00    | 2.00                | 8.00  | 6.60  | 10.00 | 11.40 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 8:00 AM     | 4.00  | 9.70              | 8.00                              | 8.70     | 0.70                | 8.00  | 5.50  | 8.70  | 10.90 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 8:15 AM     | 10.00   | 10.40             | 7.70                              | 7.40     | 0.00                | 7.70  | 5.10  | 7.40  | 10.90 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 8:30 AM     | 3.00  | 8.00              | 7.50                              | 6.50     | 0.00                | 7.50  | 5.20  | 6.50  | 10.20 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 8:45 AM     | 5.00  | 7.70              | 0.00                              | 6.00     | 0.00                | 0.00  | 4.70  | 6.00  | 10.20 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 9:00 AM     | 9.00  | 8.30              | 7.40                              | 3.80     | 0.00                | 7.40  | 4.80  | 3.80  | 6.20  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 9:15 AM     | 3.00  | 6.70              | 7.80                              | 3.90     | 0.00                | 7.80  | 4.30  | 3.90  | 5.20  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 9:30 AM     | 0.00  | 7.00              | 7.30                              | 4.20     | 0.00                | 7.30  | 4.10  | 4.20  | 4.80  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 9:45 AM     | 358.00  | 7.20              | 7.50                              | 4.80     | 0.00                | 7.50  | 4.20  | 4.80  | 5.00  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 10:00 AM    | 331.00  | 4.90              | 5.30                              | 4.20     | 0.00                | 7.30  | 4.20  | 5.20  | 5.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 10:15 AM    | 324.00  | 4.20              | 5.30                              | 5.70     | 0.40                | 7.60  | 5.70  | 7.20  | 5.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 10:30 AM    | 329.00  | 4.60              | 5.30                              | 7.60     | 2.30                | 9.10  | 7.60  | 9.80  | 5.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 10:45 AM    | 331.00  | 4.60              | 12.20                             | 13.20    | 1.00                | 11.30 | 13.20 | 14.50 | 12.20 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 11:00 AM    | 335.00  | 5.20              | 12.10                             | 11.20    | 0.00                | 10.20 | 11.20 | 14.50 | 12.10 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 11:15 AM    | 335.00  | 4.60              | 13.30                             | 13.50    | 0.20                | 11.10 | 13.50 | 14.30 | 13.30 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 11:30 AM    | 330.00  | 5.10              | 13.30                             | 12.70    | 0.00                | 11.10 | 12.70 | 11.70 | 13.30 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 11:45 AM    | 330.00  | 4.30              | 13.40                             | 12.40    | 0.00                | 9.70  | 12.40 | 10.80 | 13.40 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 12:00 PM    | 345.00  | 5.30              | 12.70                             | 12.30    | 0.00                | 9.90  | 12.30 | 8.20  | 12.70 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 12:15 PM    | 354.00  | 4.50              | 12.70                             | 11.50    | 0.00                | 0.00  | 11.50 | 8.10  | 12.70 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 12:30 PM    | 357.00  | 4.40              | 12.70                             | 9.40     | 0.00                | 0.00  | 9.40  | 6.90  | 12.70 | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 12:45 PM    | 10.00   | 7.70              | 8.60                              | 9.70     | 1.10                | 8.30  | 9.70  | 6.90  | 8.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 1:00 PM     | 5.00  | 8.20              | 7.20                              | 7.80     | 0.60                | 7.20  | 8.20  | 7.80  | 6.60  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 1:15 PM     | 10.00   | 7.00              | 6.50                              | 7.60     | 1.10                | 6.50  | 8.40  | 7.60  | 5.70  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 1:30 PM     | 4.00  | 7.60              | 6.10                              | 7.30     | 1.20                | 6.10  | 7.20  | 7.30  | 5.70  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 1:45 PM     | 11.00   | 9.10              | 5.60                              | 6.80     | 1.20                | 5.60  | 5.20  | 6.80  | 4.20  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 2:00 PM     | 11.00   | 7.70              | 5.90                              | 6.80     | 0.90                | 5.90  | 5.60  | 6.80  | 4.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 2:15 PM     | 3.00  | 6.10              | 5.90                              | 7.30     | 1.40                | 5.90  | 5.20  | 7.30  | 4.70  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 2:30 PM     | 12.00   | 8.30              | 5.90                              | 6.90     | 1.00                | 5.90  | 5.10  | 6.90  | 4.90  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 2:45 PM     | 7.00  | 7.40              | 6.10                              | 5.90     | 0.00                | 6.10  | 5.20  | 5.90  | 5.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 3:00 PM     | 3.00  | 7.30              | 6.10                              | 5.70     | 0.00                | 6.10  | 4.80  | 5.70  | 5.40  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 3:15 PM     | 9.00  | 8.60              | 0.00                              | 5.00     | 0.00                | 0.00  | 5.30  | 5.00  | 6.10  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 3:30 PM     | 5.00  | 7.80              | 0.00                              | 4.80     | 0.00                | 0.00  | 5.60  | 4.80  | 6.30  | 0.00   | 0.00                             | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 3/6/13 3:45 PM     | 13.00   | 8.30              | 6.40                              | 4.90     | 0.00                | 6.40  | 5.40  | 4.90  |       |        |                                  |                     |      |      |      |      |      |  |





**US Army Corps  
of Engineers**

| Reading Time (EST) | Wind Direction<br>Degrees Clockwise<br>from North | Wind Speed<br>mph | Particulates (µg/m <sup>3</sup> ) |          |                     |       |       |      |       | Naphthalene (µg/m <sup>3</sup> ) |          |                     |      |      |      |      |      |
|--------------------|---|-------------------|-----------------------------------|----------|---------------------|-------|-------|------|-------|----------------------------------|----------|---------------------|------|------|------|------|------|
|                    |   |                   | Upwind                            | Downwind | CDF<br>Contribution | M1    | M2    | M3   | M4    | Upwind                           | Downwind | CDF<br>Contribution | M1   | M2   | M3   | M4   |      |
| 3/7/13 10:30 PM    | 107.00  | 1.20              | 0.00                              | 3.90     | 0.00                | 0.00  | 3.00  | 3.90 | 9.30  | 0.00                             | 0.00     | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3/7/13 10:45 PM    | 112.00  | 0.90              | 3.30                              | 11.30    | 8.00                | 10.60 | 3.30  | 3.30 | 11.30 | 0.00                             | 0.00     | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3/7/13 11:00 PM    | 74.00   | 1.60              | 15.30                             | 9.20     | 0.00                | 0.00  | 15.30 | 6.90 | 9.20  | 0.00                             | 0.00     | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3/7/13 11:15 PM    | 7.00  | 0.90              | 9.70                              | 4.70     | 0.00                | 9.70  | 9.60  | 4.70 | 9.50  | 0.00                             | 0.00     | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3/7/13 11:30 PM    | 225.00  | 0.70              | 11.70                             | 3.50     | 0.00                | 11.70 | 1.90  | 3.50 | 11.40 | 0.00                             | 0.00     | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3/7/13 11:45 PM    | 227.00  | 0.60              | 3.50                              | 12.80    | 9.30                | 12.80 | 5.00  | 3.50 | 12.90 | 0.00                             | 0.00     | 0.00                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |