

NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION: TREE DEBRIS BURNING DISPOSAL AT FLOYD BENNETT FIELD AIR CURTAIN BURNERS (ACB) DATA

| | UNIT 1 | | | | | | UNIT 2 | | | | | | WEATHER / WIND MPH INFO |
|------------------------|---------------------|----------------------|---|---|---------------------------------------|---------------------------|---------------------|----------------------|--|--|---------------------------------------|---------------------------|--|
| | UNIT 1 OPERATIONAL? | # TIMES OPACITY >10% | OPACITY MEASUREMENTS 10% STANDARD / TIME (%) | REASON | CUBIC YARD OF WOODY VEGETATION BURNED | CUBIC YARD OF ASH REMOVED | UNIT 2 OPERATIONAL? | # TIMES OPACITY >10% | OPACITY MEASUREMENTS 10% STANDARD / TIME (%) | REASON | CUBIC YARD OF WOODY VEGETATION BURNED | CUBIC YARD OF ASH REMOVED | |
| 14-Feb | YES | 7 | 720 (15.6%), 820 (15.0%), 920 (10.4%), 1020 (13.5%), 1240 (14.8%), 1440 (13.1%), 1520 (11.0%) | Broken fan | 275 | 0 | YES | 0 | 0 | | 275 | 0 | Winds between 4 to 7 mph from South gusting to 18 |
| 13-Feb | YES | 0 | 0 | n/a | 312.5 | 15 | YES | 2 | 1020 (14.6%), 1040 (11.5%) | elevated values were caused by stoking material. | 312.5 | 15 | Winds were calm between 2 to 5 mph from the South gusting to 13 |
| 12-Feb | YES | 1 | 0740 (14.6%) | Returning ACB Unit #1 to operational temperature | 337.5 | 0 | YES | 2 | 1000 (10.8%), 1040 (13.1%) | values were caused by stoking material | 337.5 | 0 | Winds were 18 - 21 from the West gusting 30. |
| 11-Feb | YES | 1 | 0820 (13.3%) | Feeding wet dirty material to the fire | 437.5 | 0 | YES | 1 | 0820 (13.5%) | caused by feeding wet dirty material to the fire | 437.5 | 0 | winds were about 6-8 mph from the SSW with occasional gusts to 22 |
| 10-Feb | YES | 5 | 0740 (11.5%), 0800 (15.4%), 0820 (15.8%), 0840 (14.2%), 1000 (11.7%) | Attempts to maintain the fire in ACB Unit #1 and repairs | 462.5 | 0 | YES | 0 | 0 | | 462.5 | 0 | winds were about 15 mph from the WNW with gusts to 18 |
| 9-Feb | YES | 10 | 0800 (10.8%), 0900 (11.9%), 0940 (11.3%), 1020 (11.0%), 1040 (11.5%), 1120 (12.1%), 1140 (14.6%), 1320 (29.6%), 1340 (50.2%), 1400 (16.9%) | Ash removal, breaking the air curtain plane while loading woody debris into ACB 1. | 412.5 | 15 | YES | 0 | 0 | | 412.5 | 15 | winds in excess of 20 mph |
| 8-Feb | YES | 6 | 0800 (12.3%), 1340 (13.8%), 1400 (14.0%), 1440 (14.2%), 1520 (14.8%), 1700 (14.2%) | Breaking of the air curtain plane while loading | 350 | 20 | YES | 3 | 1220 (17.9%), 1400 (14.2%), 1520 (15.6%) | Elevated measurements due to breaking the air curtain plane while loading | 350 | 20 | |
| 7-Feb | YES | 8 | 0142 (12.5%), 0820 (13.9%), 1520 (11.5%), 1540 (15.0%), 1600 (15.0%), 1620 (15.0%), 1640 (15.0%), 1700 (15.0%) | Allowed ACB to cool too much and returning to full operation and bringing the fire temperature up to operational levels. | 450 | 0 | YES | 5 | 1540 (15.0%), 1600 (15.0%), 1620 (15.0%), 1640 (15.0%), 1700 (15.0%) | The readings in excess of the 10% standard were from returning to full operation and bringing the fire temperature up to operational levels | 450 | 0 | wind ranging from 3 - 4 mph |
| 6-Feb | YES | 10 | 0740 (13.8%), 0800 (12.3%), 0820 (14.6%), 0840 (18.8%), 0900 (20.4%), 0920 (17.7%), 0940 (18.1%), 2104 (11.9%), 2130 (10.6%), 2156 (18.5%) | Attempts to maintain the heat and start up. | 387.5 | 0 | YES | 1 | 0820 (14.0%) | caused by feeding woody debris to the fire. | 387.5 | 0 | wind ranging from 3 - 6 with gusts to 11 and a low temperature of 28 and a high of 39. |
| 5-Feb | YES | 23 | 0705 (19.4%), 0720 (14.8%), 0740 (15.6%), 0800 (13.8%), 1020 (16.5%), 1140 (11.7%), 1220 (18.3%), 1240 (15.6%), 1300 (20.0%), 1320 (20.0%), 1340 (18.1%), 1400 (20.0%), 1420 (20.2%), 1440 (18.1%), 1500 (19.4%), 1520 (19.8%), 1540 (14.6%), 1600 (20.0%), 1620 (18.1%), 1640 (20.0%), 1700 (18.3), 2302 (11.7%), 2328 (16.7%) | ACB needed an adjustment at the fan. / Dirty wet material added to ACB and the removal of ash. / Stoking of the fire | 325 | 20 | YES | 16 | 0940 (11.5%), 1220 (18.3%), 1240 (16.0%), 1300 (20.0%), 1320 (20.0%), 1340 (18.5%), 1400 (20.0%), 1420 (18.5%), 1440 (20.0%), 1500 (19.2%), 1520 (20.0%), 1540 (15.8%), 1600 (20.0%), 1620 (17.5%), 1640 (15.0%), 1700 (12.9%) | due to stoking of the fire, dirty wet material being added to ACB | 325 | 20 | |
| 4-Feb | YES | 0 | 0 | n/a | 487.5 | 0 | YES | 0 | 0 | | 487.5 | 0 | wind ranging from 11 - 19 with gusts to 31 and a low temperature of 23 and a high of 34. |
| 3-Feb | YES | 1 | 1108 (14.4%) | The excessive opacity reading was created when woody vegetation was added to ACB #1. | | 20 | YES | 1 | 0858 (11.9%) | The excessive opacity reading was created when woody vegetation was added to ACB #2. | | 20 | |
| 2-Feb | YES | 1 | 1502 (11.0%) | This value was occurred when woody vegetation was added to ACB #1. | 512.5 | 0 | YES | 0 | 0 | | 512.5 | 0 | |
| 1-Feb | YES | 1 | 1318 (10.8%) | Woody vegetation added to the ACB. | 487.5 | 20 | YES | 0 | 0 | | 487.5 | 20 | High winds had died down during the early evening and the ACBs were running at capacity for all operations. |
| 31-Jan | YES | 3 | 1016 (10.8%), 1528 (11.0%), 1554 (15.4%) | | 262.5 | 0 | YES | 0 | 0 | | 262.5 | 0 | 40 mph start and continued until about 0430. High winds started again at 0700 and continued to 2400. The ACBs were run at reduced production |
| 30-Jan | YES | 0 | 0 | n/a | 325 | 20 | YES | 0 | 0 | | 325 | 20 | ECC continues the reduction of Air Curtain Burning production due to weather inversion. This is day 3 of reduced capacity |
| 29-Jan | YES | 0 | 0 | n/a | 375 | 0 | YES | 0 | 0 | | 375 | 0 | |
| 28-Jan | YES | 0 | 0 | n/a | 350 | 20 | YES | 2 | 1500 (11.7%), 1540 (10.6%) | Caused by loading of evergreen debris. | 350 | 20 | The skies were overcast all day. The temperature started at 26 degrees F and rose to 36 degrees F then dropped again after sunset. Winds started at 4-15 mph sustained with occasional gusts to 22. |
| 27-Jan | YES | 1 | 1212 (11.04%) | Loading of evergreen debris. | 437.5 | 0 | YES | 0 | 0 | | 437.5 | 0 | The skies were clear. The temperature started at 18 degrees F and rose to 32 degrees F then dropped again after sunset. Winds started at 3-7 mph sustained with occasional gusts to 20. No precipitation. |
| 26-Jan | YES | 0 | 0 | n/a | 475 | 20 | YES | 0 | 0 | | 475 | 0 | The skies were clear with clouds developing in the afternoon. Winds started at 3-5 mph sustained with occasional gusts to 10. No precipitation. |
| 25-Jan | YES | 0 | 0 | n/a | 487.5 | 0 | YES | 0 | 0 | | 487.5 | 0 | Winds at 3-5 mph occasional gusts to 10; 1700, a light snow, accumulation of less than 1 inch. Temperatures at 13 degrees F and rose to 24 degrees F. After sunset, the temperatures dropped into the teens. |
| 24-Jan | YES | 1 | 2058 (21.8%) | The high opacity reading was due to ash clean out. | 550 | 20 | YES | 0 | 0 | | 250 | 0 | The skies were clear throughout the day. Winds started at 8-12 mph sustained with occasional gusts to 18. No precipitation. |
| 23-Jan | YES | 0 | 0 | n/a | 300 | 0 | YES | 0 | 0 | | 300 | 0 | The skies were clear throughout the day. Winds started at 8-12 mph sustained with occasional gusts to 18. No precipitation |
| 22-Jan | YES | 5 | 1456 (10.21%), 2132 (11.5%), 2322 (20.2%), 2338 (19.0%), 2354 (16.0%) | Cleanout and ash removal | | | YES | 0 | | | | | |
| 21-Jan | YES | 2 | 0538 (10.3%), 0900 (14.4%) | Both due to stoking of fire to maintain heat | 387.5 | 20 | YES | 0 | 0 | | 387.5 | 20 | The skies were clear throughout the day. Winds started at 6-12 mph sustained with occasional gusts to 24. No Precipitation |
| 20-Jan | YES | 0 | 0 | n/a | 362.5 | 0 | YES | 1 | 0 | | 362.5 | 0 | There was no precipitation. |
| 19-Jan | YES | 1 | 1946 (12.5%) | refueling the diesel motor | 400 | 0 | YES | 0 | 0 | | 400 | 0 | The skies were clear throughout the day. Winds were 8-15 mph sustained with occasional gusts to 22. There was no precipitation. |
| 18-Jan | YES | 4 | 1924 (12.9%), 2054 (22.5%), 2120 (17.1%), 2146 (16.0%) | Due to stoking the material, ash removal and returning the Air Curtain Burner to temperature. | 437.5 | 20 | YES | 0 | 0 | | 437.5 | 0 | Winds started low 5-10 mph in the morning but increased as the skies cleared to 10-15 sustained with occasional gusts to 22. There was no precipitation. |
| 17-Jan | YES | 1 | 2329 (15.0%) | The elevated measurement was due to stoking the material. | 525 | 0 | YES | 4 | 1600 (11.9%), 2234 (20.2%), 2303 (19.8%), 2329 (20.0%) | The elevated measurement at 1600 was due to stoking the material. The elevated measurements from 2234 to 2329 were due to ash removal and reheating. | 525 | 15 | The weather was overcast with winds 5-15 mph from the NW. There was no appreciable precipitation. |
| 16-Jan | YES | 1 | 0820 (11.3%) | The elevated measurement was due to stoking the material. | 457 | 20 | YES | 1 | 1120 (10.2%) | The elevated measurement was due to stoking the material. | 457 | 0 | The weather was overcast with winds 5-15 mph from the NW. There was light intermittent rain most of the morning. |
| 15-Jan | YES | 1 | 0820 (15.8%) | The elevated measurement was due to stoking the material. | 300 | | YES | 1 | 0740 (11.9%) | The elevated measurement was due to blower motor offline for repair of the coolant system. | 300 | | The weather was overcast with winds 5-15 mph from the NW. There was no precipitation. |
| 14-Jan | YES | 1 | 1100 (11.9%) | The observation due to stoking of fire. | 600 | 20 | YES | 0 | 0 | | 602 | 0 | Foggy until about 1030. Overcast all day but no precipitation. Occasional solar break through but intermittent and short times. |
| 13-Jan | YES | 5 | 0243 (16.0%), 0309 (11.9%), 0321 (11.5%), 0505 (11.7%), 0531 (17.9%) | The elevated measurements were due to stoking the material. | 560 | 0 | YES | 3 | 0243 (11.9%), 0309 (17.3%), 0321 (10.4%) | The elevated measurements were due to stoking the material. | 600 | 0 | |
| 12-Jan | YES | 7 | 0219 (13.5%), 0429 (12.7%), 0720 (14.2%), 0740 (13.1%), 0920 (14.6%), 1921 (10.4%), and 2105 (10.4%) | All elevated measurements related to stoking the fire to keep heat up. | 390 | 15 | YES | 8 | 0035 (11.9%), 0153 (10.6%), 0429 (10.6%), 0547 (13.3%), 1855 (27.9%), 1921 (15.2%), 1947 (48.3%), and 2013 (44.0%) | | 295 | 15 | |
| 11-Jan | YES | 6 | 0156 (43.5%), 0340 (11.0%), 0458 (17.7%), 1857 (10.2%), 2159 (21.0%), and 2317 (15%) | The 0156 result is directly related to start-up, others due to stoking the material | 590 | 15 | YES | 9 | 0012 (10.2%), 0222 (30.2%), 1923 (11.25%), 2015 (17.3%), 2041 (11.5%), 2107 (12.7%), 2133 (13.3%), 2159 (19.2%), and 2317 (13.1%) | The 0012 elevated measurement appears to anomalous. Fan was working fine and we were not stoking fire at the time. | 690 | 0 | Wind Shift and Turbulence created plumes at 0222. |
| 10-Jan | NO | 0 | 0 | n/a | 0 | 15 | YES | 2 | 1952 (14.6%), 2202 (10.2%) | | 370 | 0 | |
| 9-Jan | YES | 7 | 1220 (11.9%), 1240 (45.4%), 1300 (46.7%), 1340 (14.2%), 1400 (25.2%), 1420 (24.8%), and 1440 (21.5%) | These measurements were due to restart process. | 0 | 30 | YES | 3 | 1540 (28.9%), 1600 (56.2%), 1620 (44.6%) | | 110 | 15 | |
| 8-Jan | YES | 5 | 0800 (13.8%), 0920 (14.4%), 0940 (11.3%), 1620 (12.9%), 2322 (12.9%) | due to adding woody debris to maintain heat. | 100 | | YES | 1 | 1920 (10.4%), 2230 (10.8%) | | 450 | | |
| 7-Jan | YES | 5 | 0256 (11.7%), 0138 (10.4%), 0442 (11.7%), 1900 (11.1%), 1926 (14.2%) | | 550 | | YES | 26 | LOOKUP REPORTED DATA | | 250 | | |
| 6-Jan | YES | 10 | 0046 (10.6%), 0112 (10.2%), 800 (11.7%), 900 (10.6%), 1440 (11.5%), 1620 (11.5%), 1900 (14.2%), 1926 (14.8%), 2230 (11.5%), 2348 (10.4%) | Due to stoking and agitating of the material, others were observed in the mid morning and corrected by adjusting the air flow of the ACB. | 550 | 15 | NO | | | | | | |
| 5-Jan | YES | 9 | 0020 (17.3%), 0030 (17.7%), 0040 (17.3%), 0050 (17.5%), 0120 (12.3%), 0238 (11%), 0310 (15%), 0402 (11.3%), 0428 (11.5%) | | 550 | | NO | | | | | | |
| 4-Jan | YES | 3 | 0112 (10.2%), 0720 (12.1%), 0740 (12.1%) | | 400 | | NO | | | | | | |
| 3-Jan | YES | 8 | 0334 (10.4%), 0400 (10.8%), 0426 (10.6%), 0452 (10.4%), 0544 (11.3%), 1835 (12.5%), 1845 (16.5%), 1911 (11.5%) | | 500 | | NO | | | | | | |
| 2-Jan | YES | 12 | 0040 (10.2%), 0132 (10.6%), 0158 (11.5%), 0224 (14.2%), 0250 (11.9%), 0316 (12.1%), 0720 (12.5%), 0740 (10.8%), 0800 (14.2%), 0820 (11.7%), 0900 (10.2%), 1320 (10.8%) | | 400 | | NO | | | | | | |
| 1-Jan | YES | 2 | 2152 (10.2%), 2230 (10.2%) | | 400 | | NO | | | | | | |
| 31-Dec | YES | 9 | 0740 (12.7%), 0800 (12.3%), 0820 (10.4%), 0840 (11.7%), 0900 (11.3%), 0920 (13.1%), 0940 (11.3%), 1000 (17.3%), 1020 (11.9%) | We had some readings slightly above 10% but are always adjusting production and ACB air speeds to remain below. | 300 | 10 | NO | | | | | | |
| 30-Dec | YES | 9 | 0341 (10.8%), 0353 (10.4%), 0420 (10.4%), 0446 (10.2%), 0840 (12.3%), 1000 (12.3%), 1540 (12.3%), 1620 (11.5%), 1640 (15.6%) | | | | NO | | | | | | |
| 29-Dec | NO | 0 | 0 | n/a | | | NO | | | | | | |
| 28-Dec | YES | 18 | 0823 (28.3%), 0829 (26.9%), 0835 (16.7%), 0841 (41.9%), 0847 (31.2%), 0853 (23.8%), 0900 (18.1%), 0906 (35.2%), 0912 (24.8%), 0918 (33.5%), 0924 (30%), 0930 (21.3%), 0936 (23.3%), 0942 (21.5%), 0948 (24.6%), 0954 (17.1%), 1000 (15.4%), 1006 (11.9%) | | | | NO | | | | | | |