

Permit Reference Number: BL3986ID

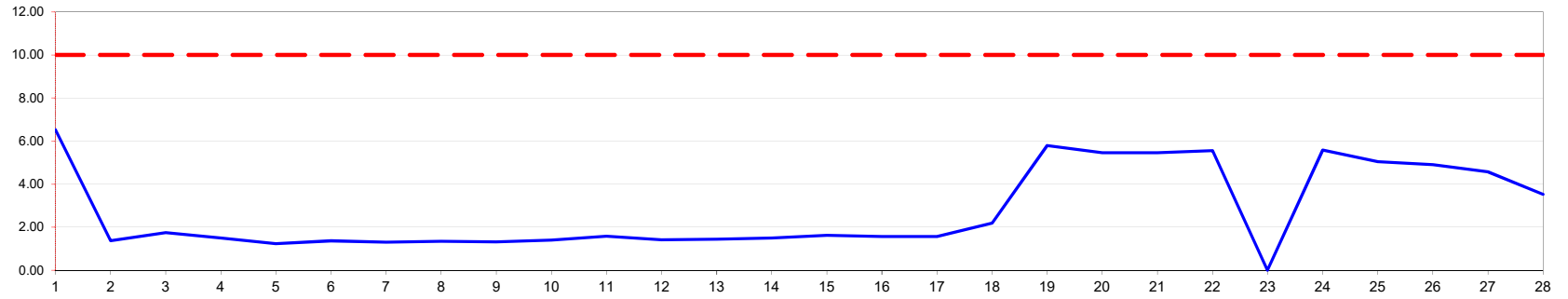
Operator: Tarmac Cement & Lime Ltd  
Feb-21

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)

**Form Air 2  
Daily Average  
Monitoring Data  
for Particulate Matter**

— daily average kiln  
— daily average ELV



**Kiln**

|               | Monthly summary         |   | Date                     | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   |    |   |  |  |
|---------------|-------------------------|---|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|---|--|--|
| Daily average |                         |   | Daily average ELV        | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10 |   |  |  |
|               | Monthly maximum         | 7 | Daily average Kiln       | 6.53 | 1.38 | 1.75 | 1.51 | 1.24 | 1.37 | 1.30 | 1.34 | 1.32 | 1.40 | 1.58 | 1.41 | 1.45 | 1.51 | 1.63 | 1.57 | 1.57 | 2.20 | 5.79 | 5.46 | 5.46 | 5.55 | 0.00 | 5.58 | 5.04 | 4.91 | 4.58 | 3.53 |    |   |  |  |
|               | No. of invalid days     |   | Value valid?             | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    |    |   |  |  |
|               | Total invalid 1/2 hours | 0 | No. of invalid 1/2 hours | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |    |   |  |  |
|               | Sum of exceedances      | 0 | Value exceeds ELV (Y/N)  | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N  | N |  |  |

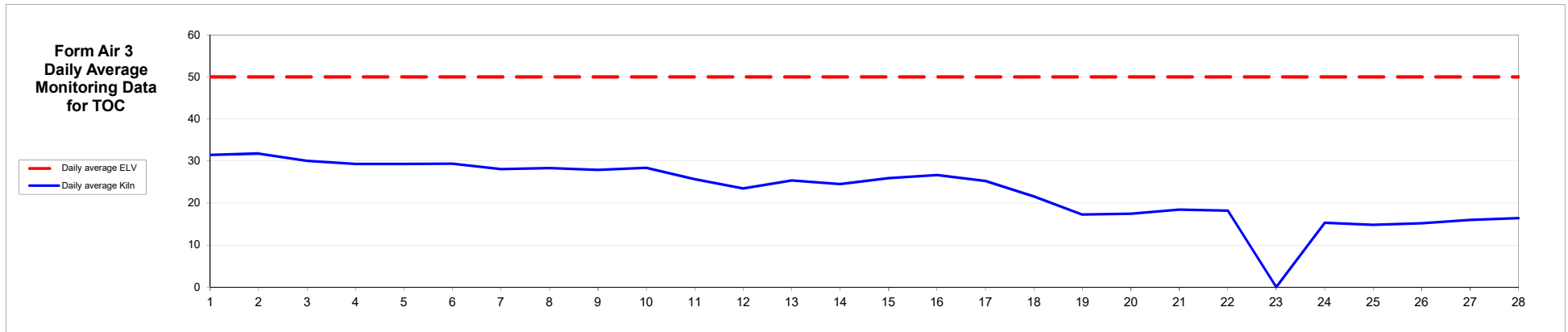
Signed **P Firth** Date 02/03/2021  
(Authorised to sign as representative of Tarmac Cement & Lime Ltd)

Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd  
Feb-21

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)



**Kiln**

|               | Monthly summary         |    | Date                     | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23  | 24   | 25   | 26   | 27   | 28   |   |   |  |  |
|---------------|-------------------------|----|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|---|---|--|--|
| Daily average |                         |    | Daily average ELV        | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50  | 50   | 50   | 50   | 50   | 50   |   |   |  |  |
|               | Monthly maximum         | 32 | Daily average Kiln       | 31.4 | 31.8 | 30.0 | 29.3 | 29.3 | 29.3 | 28.1 | 28.3 | 27.9 | 28.4 | 25.6 | 23.4 | 25.3 | 24.5 | 25.9 | 26.7 | 25.2 | 21.6 | 17.2 | 17.5 | 18.4 | 18.2 | 0.0 | 15.3 | 14.8 | 15.2 | 15.9 | 16.4 |   |   |  |  |
|               | No. of invalid days     |    | Value valid?             | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y   | Y    | Y    | Y    | Y    | Y    |   |   |  |  |
|               | Total invalid 1/2 hours | 0  | No. of invalid 1/2 hours | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0    | 0    | 0    | 0    | 0    |   |   |  |  |
|               | Sum of exceedances      | 0  | Value exceeds ELV (Y/N)  | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N   | N    | N    | N    | N    | N    | N | N |  |  |

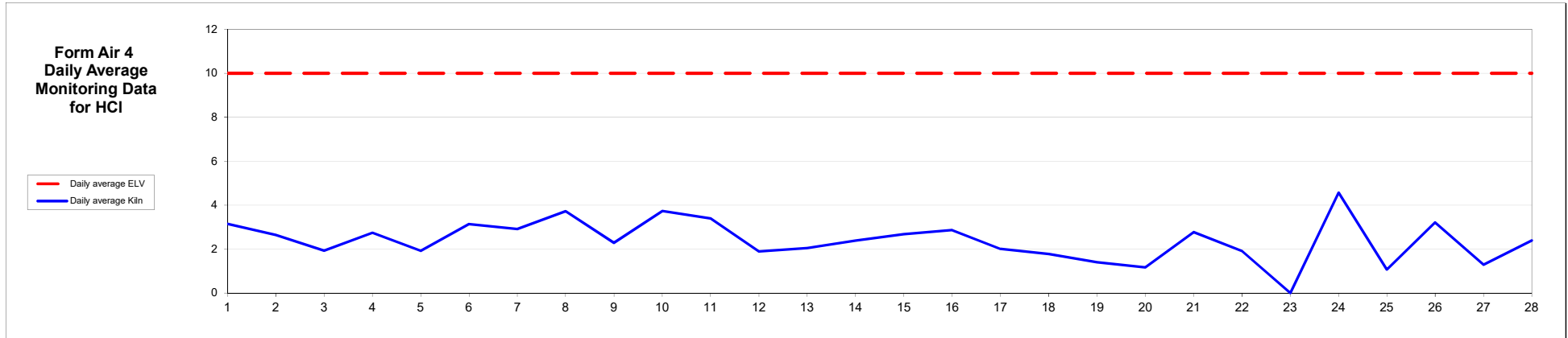
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Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd  
Feb-21

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)



**Kiln**

| Monthly summary |                         |   | Date                     | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   |  |  |  |
|-----------------|-------------------------|---|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| Daily average   |                         |   | Daily average ELV        | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |  |  |  |
|                 | Monthly maximum         | 5 | Daily average Kiln       | 3.15 | 2.64 | 1.93 | 2.74 | 1.93 | 3.14 | 2.91 | 3.72 | 2.28 | 3.73 | 3.39 | 1.89 | 2.05 | 2.38 | 2.68 | 2.86 | 2.01 | 1.77 | 1.40 | 1.17 | 2.77 | 1.91 | 0.00 | 4.57 | 1.07 | 3.21 | 1.29 | 2.39 |  |  |  |
|                 | No. of invalid days     |   | Value valid?             | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    |  |  |  |
|                 | Total invalid 1/2 hours | 0 | No. of invalid 1/2 hours | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |  |  |  |
|                 | Sum of exceedances      | 0 | Value exceeds ELV (Y/N)  | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    |  |  |  |

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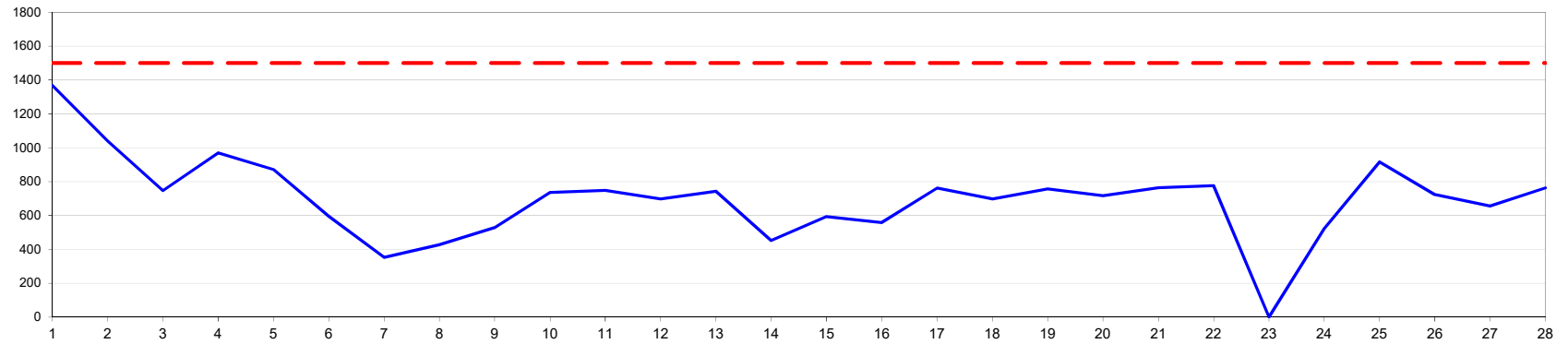
Operator: Tarmac Cement & Lime Ltd  
Feb-21

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)

Form Air 5 Daily  
Average  
Monitoring Data  
for CO

— Daily average Kiln  
— Daily average ELV



Kiln

| Monthly summary |                         |      | Date                     | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   |      |   |  |  |
|-----------------|-------------------------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|--|--|
| Daily average   |                         |      | Daily average ELV        | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |   |  |  |
|                 | Monthly maximum         | 1367 | Daily average Kiln       | 1367 | 1040 | 747  | 969  | 871  | 595  | 352  | 428  | 528  | 735  | 749  | 697  | 743  | 453  | 593  | 559  | 761  | 697  | 757  | 716  | 764  | 776  | 0    | 522  | 916  | 723  | 656  | 763  |      |   |  |  |
|                 | No. of invalid days     |      | Value valid?             | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    |      |   |  |  |
|                 | Total invalid 1/2 hours | 0    | No. of invalid 1/2 hours | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |   |  |  |
|                 | Sum of exceedances      |      | Value exceeds ELV (Y/N)  | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N |  |  |

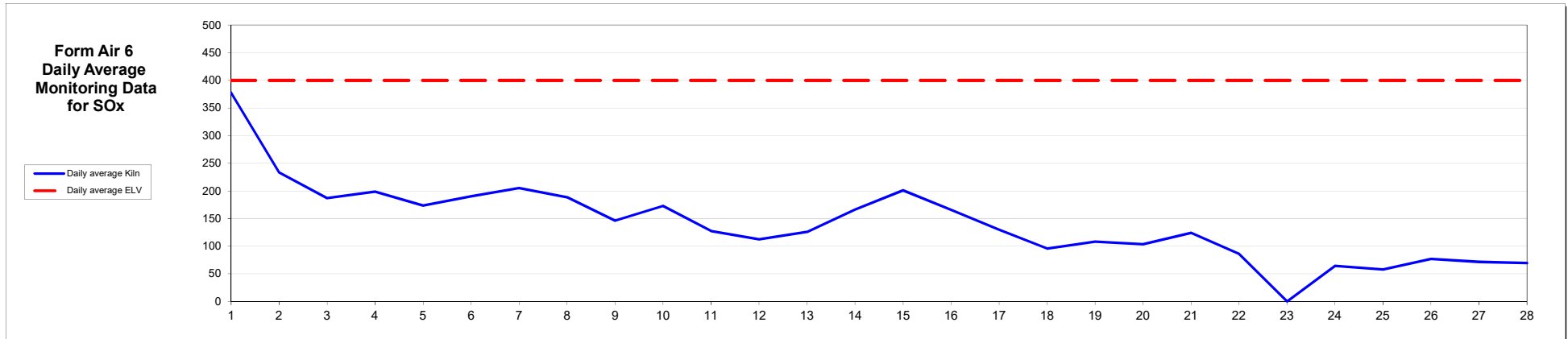
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Operator: Tarmac Cement & Lime Ltd  
Feb-21

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)



Kiln

| Monthly summary |                         |     | Date                     | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  |  |  |  |
|-----------------|-------------------------|-----|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
| Daily average   |                         |     | Daily average ELV        | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 |  |  |  |
|                 | Monthly maximum         | 378 | Daily average Kiln       | 378 | 233 | 187 | 199 | 173 | 190 | 205 | 188 | 146 | 173 | 127 | 112 | 126 | 166 | 201 | 166 | 130 | 96  | 108 | 104 | 124 | 86  | 0   | 64  | 58  | 77  | 71  | 69  |  |  |  |
|                 | No. of invalid days     |     | Value valid?             | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   |  |  |  |
|                 | Total invalid 1/2 hours | 0   | No. of invalid 1/2 hours | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |  |  |
|                 | Sum of exceedances      | 0   | Value exceeds ELV (Y/N)  | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   |  |  |  |

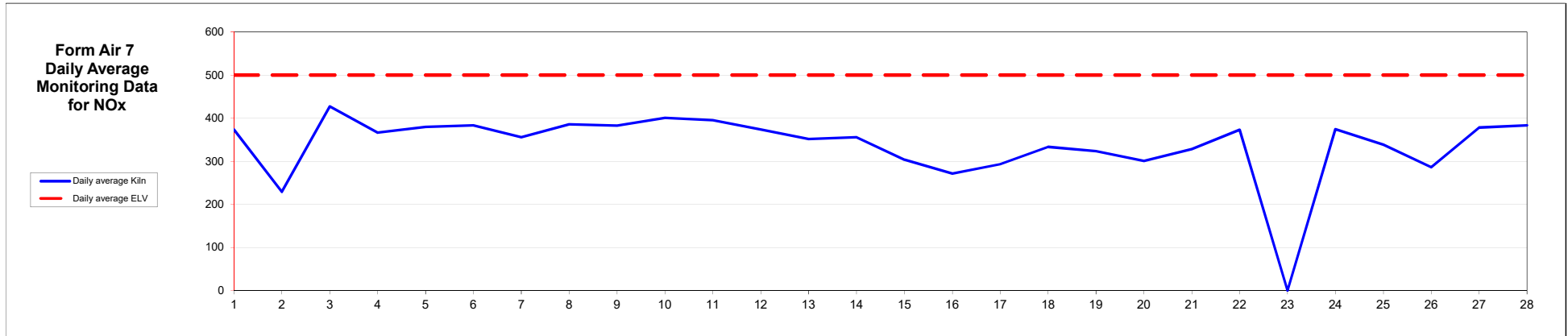
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Feb-21

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)



**Kiln**

| Monthly summary |                         |     | Date                     | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  |     |   |   |  |  |
|-----------------|-------------------------|-----|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|--|--|
| Daily average   |                         |     | Daily average ELV        | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 |   |   |  |  |
|                 | Monthly maximum         | 427 | Daily average Kiln       | 373 | 229 | 427 | 366 | 380 | 383 | 356 | 386 | 383 | 401 | 395 | 374 | 352 | 356 | 304 | 272 | 293 | 334 | 324 | 301 | 328 | 373 | 0   | 375 | 339 | 286 | 378 | 383 |     |   |   |  |  |
|                 | No. of invalid days     |     | Value valid?             | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   |   |   |  |  |
|                 | Total invalid 1/2 hours | 0   | No. of invalid 1/2 hours | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |   |  |  |
|                 | Sum of exceedances      | 0   | Value exceeds ELV (Y/N)  | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N | N |  |  |

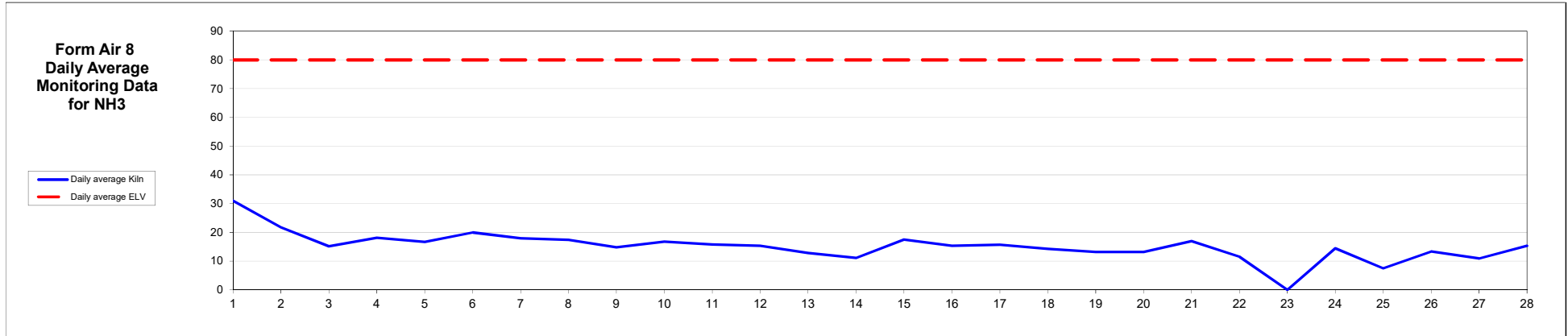
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Feb-21

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)



**Kiln**

| Monthly summary |                         |    | Date                     | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |   |   |  |  |
|-----------------|-------------------------|----|--------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|--|--|
| Daily average   |                         |    | Daily average ELV        | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |   |   |  |  |
|                 | Monthly maximum         | 31 | Daily average Kiln       | 31 | 22 | 15 | 18 | 17 | 20 | 18 | 17 | 15 | 17 | 16 | 15 | 13 | 11 | 17 | 15 | 16 | 14 | 13 | 13 | 17 | 12 | 0  | 14 | 7  | 13 | 11 | 15 |   |   |  |  |
|                 | No. of invalid days     |    | Value valid?             | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  |   |   |  |  |
|                 | Total invalid 1/2 hours | 0  | No. of invalid 1/2 hours | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |   |  |  |
|                 | Sum of exceedances      | 0  | Value exceeds ELV (Y/N)  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N | N |  |  |

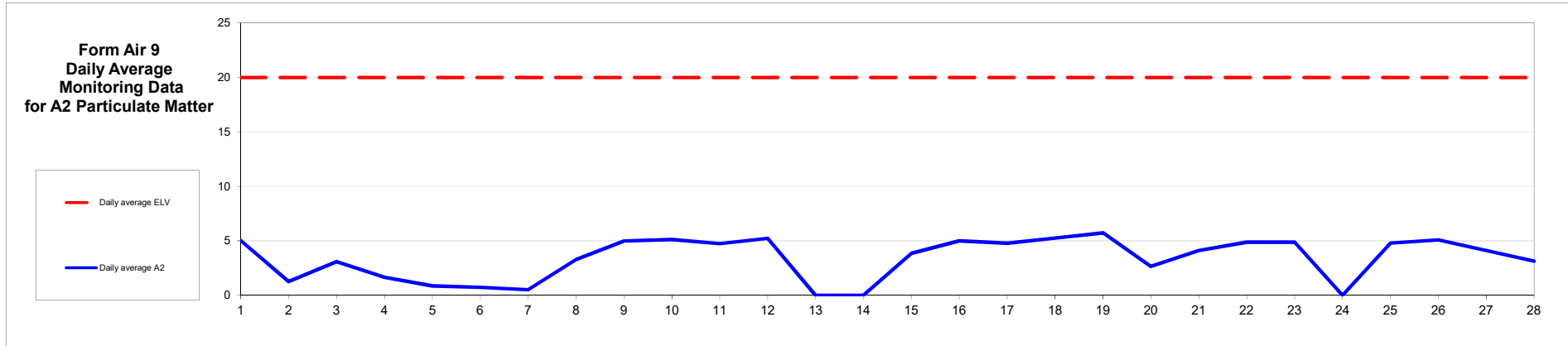
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Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd  
Feb-21

Installation: Aberthaw Works

Cement Mill Report of Continuous Monitored Emissions (Emission Point A2)



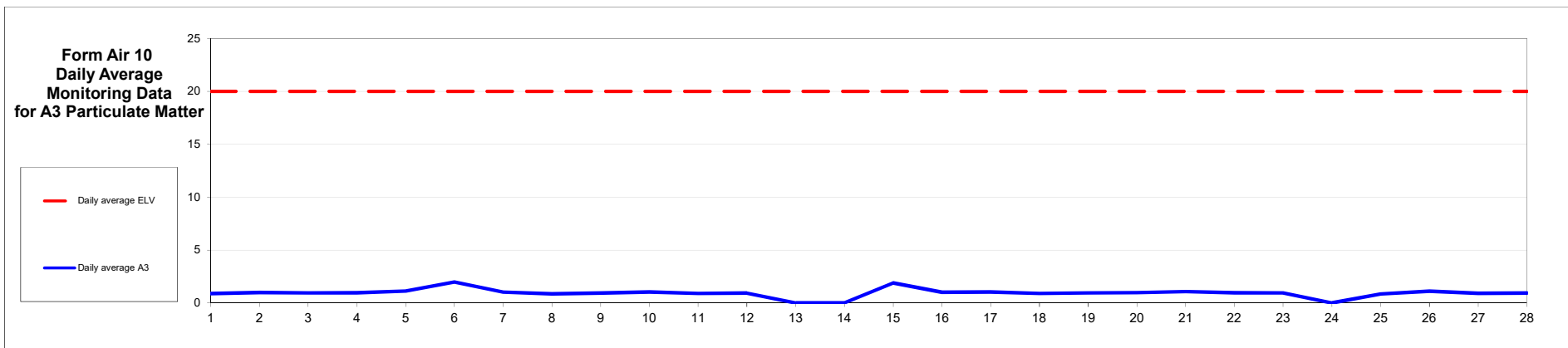
Cement Mill

|               | Monthly summary         |      | Date                     | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   |    |   |  |
|---------------|-------------------------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|---|--|
|               |                         |      | Daily average ELV        | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20 |   |  |
| Daily average | Monthly maximum         | 5.73 | Daily average A2         | 5.03 | 1.27 | 3.09 | 1.65 | 0.86 | 0.72 | 0.51 | 3.28 | 4.99 | 5.11 | 4.74 | 5.23 | 0.00 | 0.00 | 3.85 | 5.00 | 4.77 | 5.26 | 5.73 | 2.64 | 4.11 | 4.88 | 4.88 | 0.00 | 4.79 | 5.09 | 4.11 | 3.13 |    |   |  |
|               | No. of invalid days     |      | Value valid?             | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y  |   |  |
|               | Total invalid 1/2 hours | 0    | No. of invalid 1/2 hours | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0  |   |  |
|               | Sum of exceedances      | 0    | Value exceeds ELV (Y/N)  | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N  | N |  |

Signed **Paul Firth** Date **02/03/2021**  
(Authorised to sign as representative of Tarmac Cement & Lime Ltd)

Operator: Tarmac Cement & Lime Ltd  
Feb-21

### Cement Mill Report of Continuous Monitored Emissions (Emission Point A3)

[illegible]

Signed **Paul Firth** Date **02/03/2021**  
(Authorised to sign as representative of Tarmac Cement & Lime Ltd)