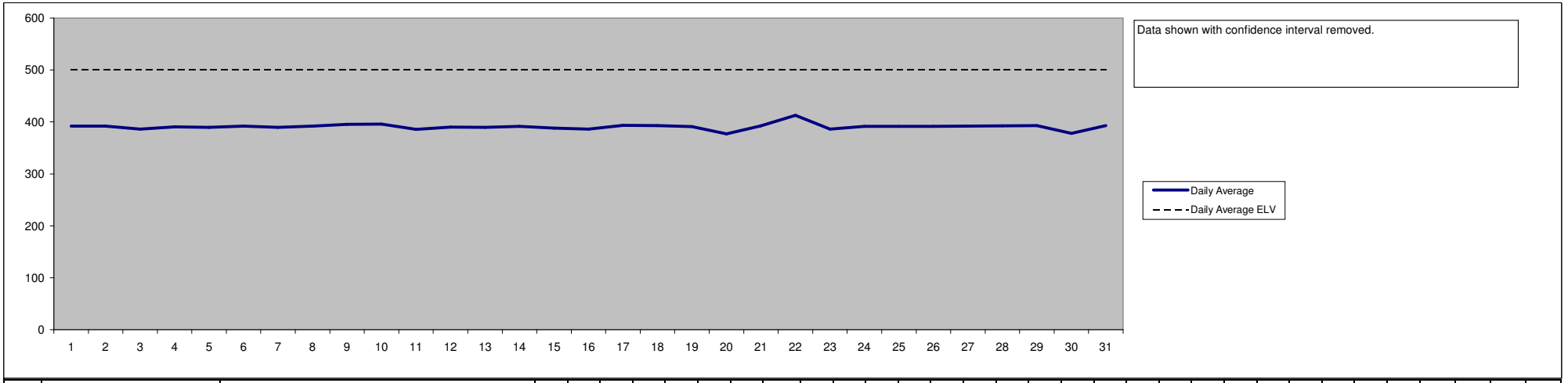
Permit Reference Number: BL3986
Operator: Lafarge Tarmac Cement & Lime Ltd
Installation: Aberthaw Works
Form Number: Air 7 / 31 August 2010
Reporting of Continuously Monitored Emissions to Air from Emission Point A1 for Oxides of Nitrogen for: Dec-16



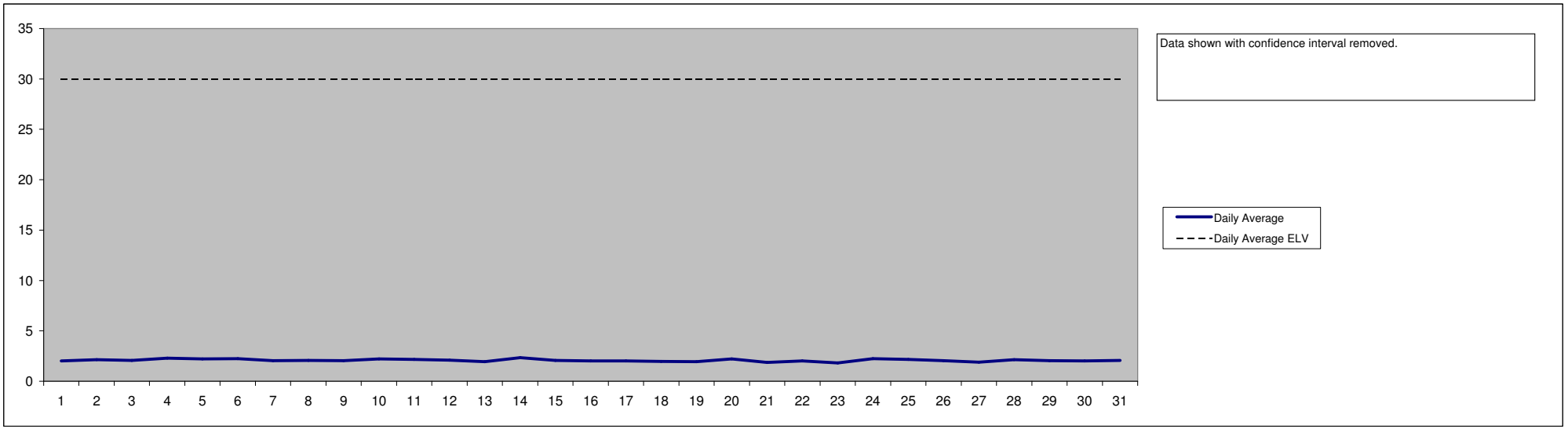

| NOx | | | Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily Average | Monthly Summary | | 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 | 500 | 500 |
| | Monthly Maximum | 412.80 | Daily Average | 392 | 392 | 386 | 391 | 389 | 392 | 390 | 392 | 395 | 396 | 385 | 390 | 390 | 391 | 388 | 386 | 393 | 393 | 391 | 377 | 393 | 413 | 386 | 392 | 391 | 391 | 392 | 393 | 393 | 378 | 393 |
| | No. of invalid days | 0 | Value Valid? (if more than 5 dropped then N else 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 | 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 | 0 |
| | Sum of exceedances | 0 | Value exceeds ELV? | 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: Kara Bennett, Environment Coordinator (via Kara.Bennett@tarmac.com)
(authorised to sign as representative of Lafarge Tarmac Cement and Lime Ltd)

05.01.2017

Permit Reference Number: BL3986
Installation: Aberthaw Works
Reporting of Continuously Monitored Emissions to Air from Emission Point A1 for Particulate Matter for: Dec-16

Operator: Lafarge Tarmac Cement & Lime Ltd
Form Number: Air 2 / 31 August 2010




| PM | | | 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 | 29 | 30 | 31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily Average | Monthly Summary | | Daily Average ELV | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| | Monthly Maximum | 2.34 | Daily Average | 2.01 | 2.14 | 2.07 | 2.29 | 2.22 | 2.25 | 2.06 | 2.06 | 2.05 | 2.22 | 2.17 | 2.1 | 1.96 | 2.34 | 2.07 | 2.01 | 2.03 | 1.97 | 1.94 | 2.22 | 1.87 | 2.01 | 1.82 | 2.23 | 2.17 | 2.05 | 1.89 | 2.13 | 2.03 | 2.01 | 2.08 |
| | No. of invalid days | 0 | Value Valid? (if more than 5 dropped then N else 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 | 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 | 0 |
| | Sum of exceedances | 0 | Value exceeds ELV? | 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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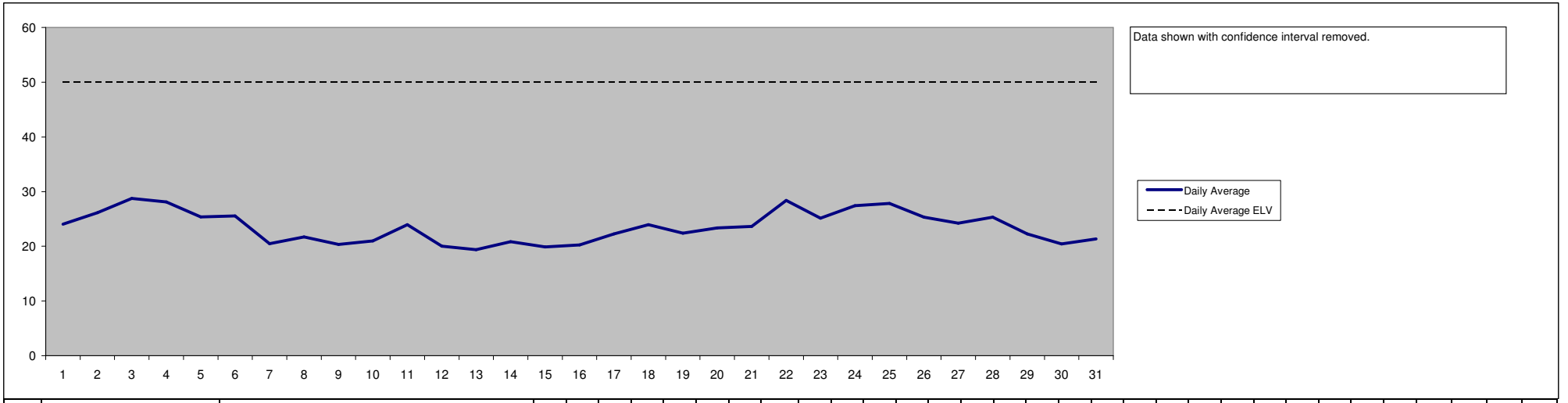
Permit Reference Number: BL3986
Installation: Aberthaw Works
Reporting of Continuously Monitored Emissions to Air from Emission Point A1 for Volatile Organic Matter for:

Operator: Lafarge Tarmac Cement & Lime Ltd
Form Number: Air 3 / 31 August 2010
Dec-16




| VOC | | | 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 | 29 | 30 | 31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily Average | Monthly Summary | | 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 | 50 | 50 | 50 |
| | Monthly Maximum | 28.76 | Daily Average | 24 | 26.2 | 28.8 | 28.1 | 25.4 | 25.6 | 20.4 | 21.68 | 20.3 | 21 | 24 | 20 | 19.4 | 20.8 | 19.9 | 20.2 | 22.2 | 23.9 | 22.4 | 23.3 | 23.6 | 28.4 | 25.2 | 27.4 | 27.8 | 25.3 | 24.2 | 25.3 | 22.3 | 20.4 | 21.3 |
| | No. of invalid days | 0 | Value Valid? (if more than 5 dropped then N else 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 | 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 | 0 |
| | Sum of exceedances | 0 | Value exceeds ELV? | 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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05.01.2017

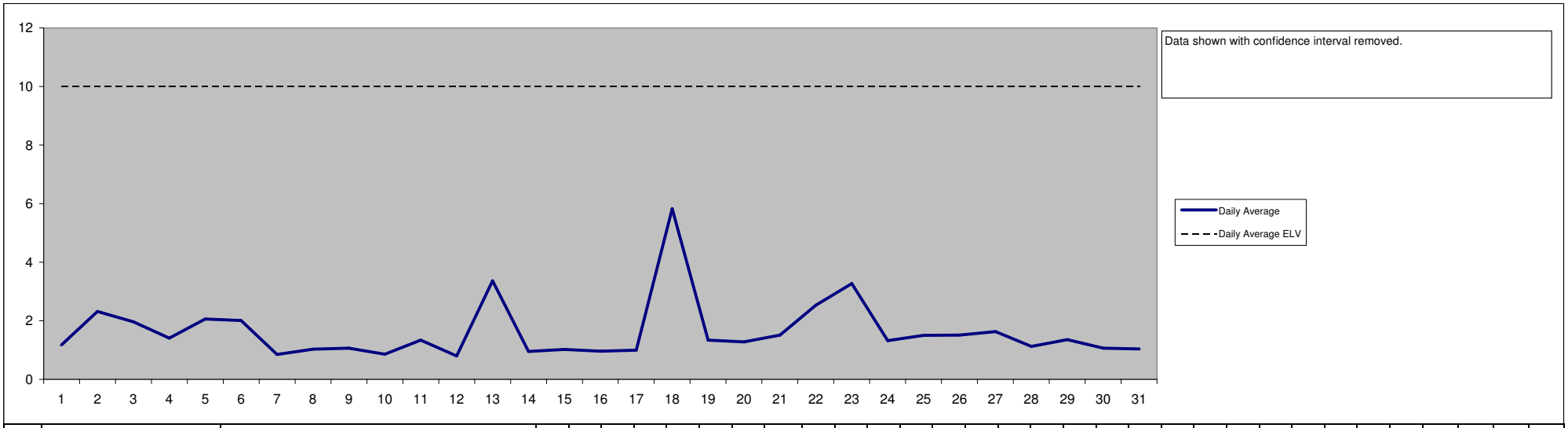
Permit Reference Number: BL3986

Operator: Lafarge Tarmac Cement & Lime Ltd

Installation: Aberthaw Works

Form Number: Air 4 / 31 August 2010

Reporting of Continuously Monitored Emissions to Air from Emission Point A1 for HCl for: Dec-16




| HCl | | | 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 | 29 | 30 | 31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily Average | Monthly Summary | | 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 | 10 | 10 |
| | Monthly Maximum | 5.83 | Daily Average | 1.18 | 2.32 | 1.96 | 1.41 | 2.06 | 2.01 | 0.85 | 1.029 | 1.06 | 0.86 | 1.34 | 0.8 | 3.36 | 0.96 | 1.02 | 0.96 | 1 | 5.83 | 1.34 | 1.28 | 1.51 | 2.53 | 3.27 | 1.32 | 1.5 | 1.51 | 1.63 | 1.13 | 1.35 | 1.06 | 1.04 |
| | No. of invalid days | 0 | Value Valid? (if more than 5 dropped then N else 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 | 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 | 0 |
| | Sum of exceedances | 0 | Value exceeds ELV? | 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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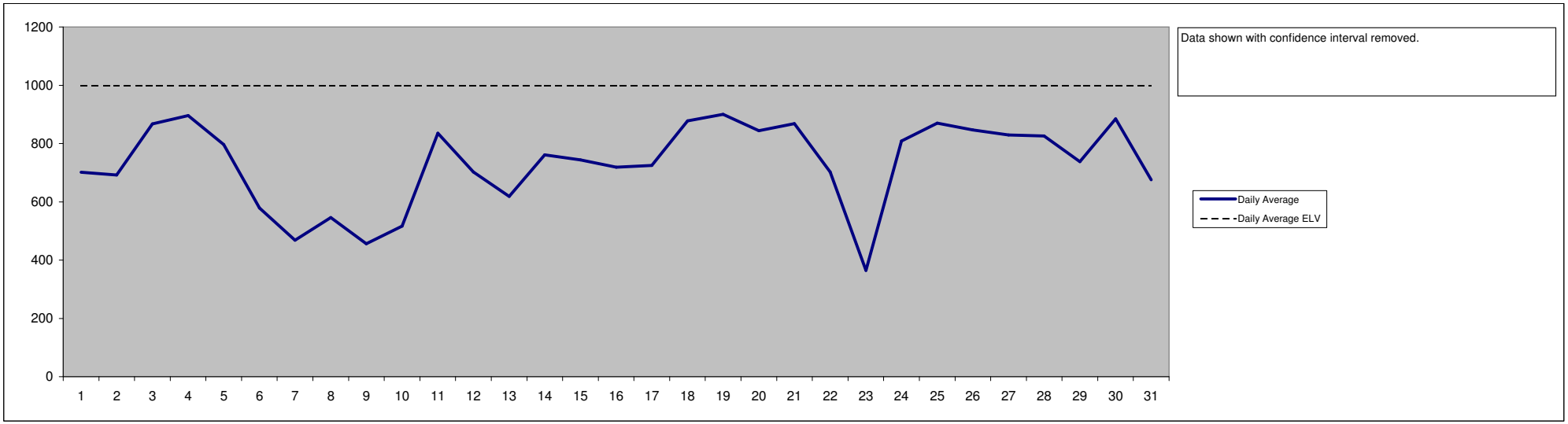
Permit Reference Number: BL3986

Operator: Lafarge Tarmac Cement & Lime Ltd

Installation: Aberthaw Works

Form Number: Air 5 / 31 August 2010

Reporting of Continuously Monitored Emissions to Air from Emission Point A1 for Carbon Monoxide for: Dec-16




| CO | | | 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 | 29 | 30 | 31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily Average | Monthly Summary | | Daily Average ELV | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| | Monthly Maximum | 899.83 | Daily Average | 702 | 692 | 868 | 896 | 797 | 579 | 469 | 545.9 | 456 | 517 | 836 | 703 | 619 | 761 | 744 | 719 | 725 | 878 | 900 | 844 | 868 | 702 | 365 | 808 | 870 | 846 | 829 | 826 | 738 | 884 | 676 |
| | No. of invalid days | 0 | Value Valid? (if more than 5 dropped then N else 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 | 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 | 0 |
| | Sum of exceedances | 0 | Value exceeds ELV? | 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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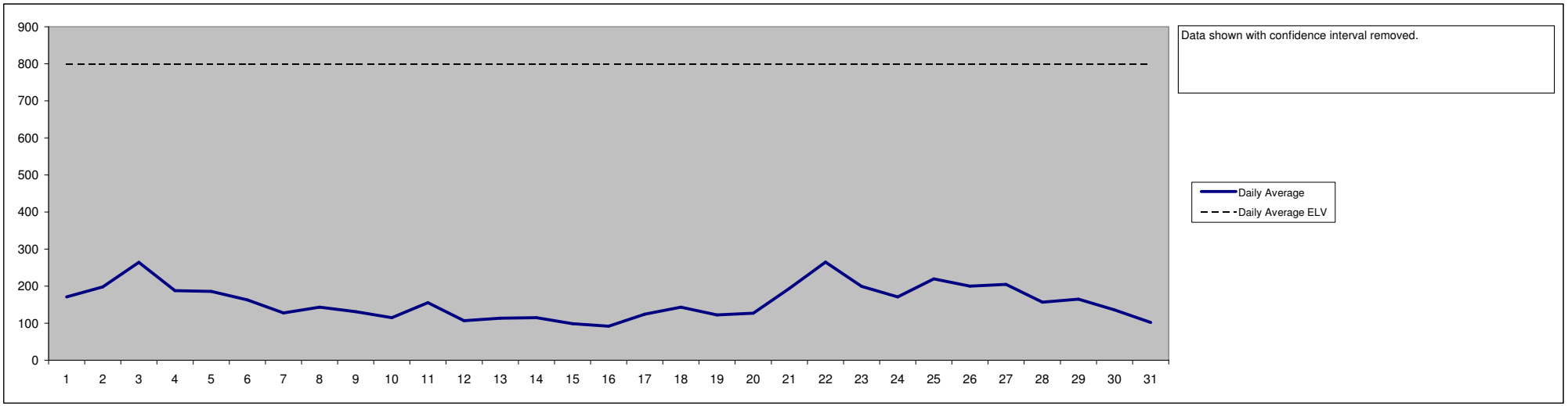
Permit Reference Number: BL3986

Operator: Lafarge Tarmac Cement & Lime Ltd

Installation: Aberthaw Works

Form Number: Air 6 / 31 August 2010

Reporting of Continuously Monitored Emissions to Air from Emission Point A1 for Sulphur Dioxide for: Dec-16




| SO2 | | | 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 | 29 | 30 | 31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily Average | Monthly Summary | | Daily Average ELV | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| | Monthly Maximum | 264.98 | Daily Average | 171 | 198 | 264 | 188 | 186 | 163 | 128 | 143.5 | 131 | 115 | 155 | 107 | 114 | 115 | 98.7 | 92.1 | 124 | 143 | 122 | 127 | 194 | 265 | 199 | 171 | 220 | 200 | 205 | 157 | 165 | 136 | 102 |
| | No. of invalid days | 0 | Value Valid? (if more than 5 dropped then N else 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 | 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 | 0 |
| | Sum of exceedances | 0 | Value exceeds ELV? | 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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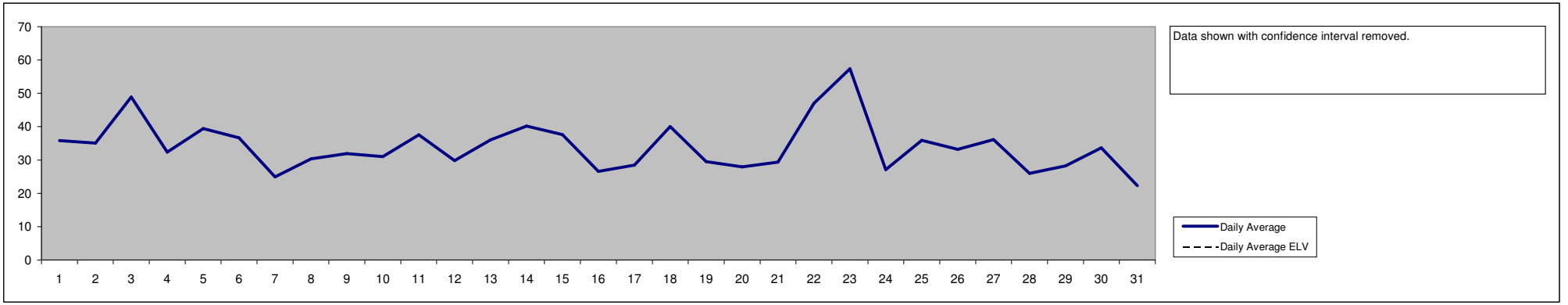
(authorised to sign as representative of Lafarge Tarmac Cement andf Lime Ltd)

Permit Reference Number: BL3986
Installation: Aberthaw Works
Reporting of Continuously Monitored Emissions to Air from Emission Point A1 of Ammonia for: Dec-16

Operator: Lafarge Tarmac Cement & Lime Ltd
Form Number: Air 8 / 31 August 2010




| NH3 | | | 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 | 29 | 30 | 31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily Average | Monthly Summary | | Daily Average ELV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Monthly Maximum | 57.41 | Daily Average | 35.8 | 35.1 | 48.9 | 32.4 | 39.4 | 36.6 | 24.9 | 30.37 | 31.9 | 31 | 37.6 | 29.8 | 36.1 | 40.2 | 37.6 | 26.6 | 28.4 | 40.1 | 29.5 | 27.9 | 29.4 | 47 | 57.4 | 27.1 | 35.9 | 33.2 | 36.1 | 26 | 28.2 | 33.7 | 22.3 |
| | No. of invalid days | 0 | Value Valid? (if more than 5 dropped then N else 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 | 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 | 0 |
| | Sum of exceedances | 0 | Value exceeds ELV? | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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