| Works Area | Sources | | Parameter | Remarks |
|-------------------|--------------------|----------------------------------|--|---|
| West Kowloon | Heavy construction | Percentage active area, p | 100 % | Assume 100% works area for heavy construction |
| Cultural District | Source ID: B1-B17, | Mitigation efficiency | 91.7 % | Water suppression 12 times a day |
| | BB3-BB5 | No. of working days per month, d | 26 days | |
| | | No. of working hours per day, h | 12 hour | |
| | | Emission Factor | 2.69 Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 0.000239494 g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.9878E-05 g/m ² /s (mitigated) | |
| | | | | |
| | Wind Erosion | Percentage active area, p | 100 % | |
| | Source ID: B1-B17, | Emission Factor | 0.85 Mg/hectare/year | AP42, Table 11.9-4 |
| | BB3-BB5 | Emission Rate | 2.69533E-06 g/m ² /s | =0.85*1000000/(10000*365*24*60*60)*p/100 |
| | | | | |

| Description | Sources | Parameter | | Emission Bate | Bemarks |
|---------------------|----------------------|---|----------|-------------------|---|
| XRL - West | Haul road to barging | Particle size multiplier, k | 3.23 | a/VKT | AP-42. Section 13.2.1. Table 13.2.1-1. 01/11 ed. |
| Kowloon Barging | points | Road surface silt loading, sL | 8.2 | g/m2 | Moon Silt Loading of Querry AB 42 Section 12.2.1 Table 12.2.1 |
| Point (Construction | | | | | 3. 01/11 ed. |
| Site) | | | | | Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture or |
| | | | | | sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page |
| | | | | | 10 of Improved Activity Levels for National Emission Inventories of |
| | | | | | Fugitive Dust from Paved and Unpaved Roads. |
| | | Average truck weight W | 16 | tons | Average weigh of the vehicles traveling the road, extracted from |
| | | | 10 | | SP License |
| | | TSP emission factor, E | 370.7 | g/VKT | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | No. of truck trips per day | 900 | voh/dav | Extracted from SP License of Express Rail Link (Appendix C) |
| | | | 1800 | veh/day | For road HB8A-B |
| | | | 1440 | veh/day | For road HR9 |
| | | | 1080 | veh/day | For road HR10A-C |
| | | | 720 | veh/day | For road HR11 |
| | | | 360 | veh/day | For road HK12A |
| | | No. of operation hour | 12 | hr | Link (Appendix C) |
| | | % of dust suppression | 97.5 | % | Extracted from SP License of Express Rail Link (Appendix C) |
| | Source ID: | Emission Rate | | | |
| | HR7A1, HR7B-C | | 1 93E-04 | a/m/s (mitigated) | No. of truck per day: 900, extracted from SP License of Express |
| | | | 1.552-04 | g/m/s (miligated) | Rail Link (Appendix C) |
| | HR8A-B | | 3.86E-04 | g/m/s (mitigated) | No. of truck per day: 1800, extracted from SP License of Express |
| | HBO | | | | No. of truck per day: 1/10, extracted from SP License of Express |
| | 11113 | | 3.09E-04 | g/m/s (mitigated) | Rail Link (Appendix C) |
| | HR10A-C | | | | No. of truck per day: 1080, extracted from SP License of Express |
| | | | 2.32E-04 | g/m/s (mitigated) | Rail Link (Appendix C) |
| | HR11 | | 1.54E-04 | g/m/s (mitigated) | No. of truck per day: 720, extracted from SP License of Express |
| | | | | g,,o (gatod) | Rail Link (Appendix C) |
| | HR12A | | 7.72E-05 | g/m/s (mitigated) | No. of truck per day: 360, extracted from SP License of Express |
| | | | | | |
| XRL - West | Unloading of spoils | | 4.27E-03 | g/s (mitigated) | Extract from SP License of Express Rail Link (Appendix C), |
| Kowloon Barging | to barge | | | | assume 12 hours of operation |
| Point (5 Barging | Source ID: BP4-7 | | | | |
| Points for West | | | | | |
| Kowloon Terminus | Deved have read | | | | All colouisticns and accumptions are extracted from SD |
| Terminus Concrete | outside concrete | | | | License of Express Bail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42. Section 13.2.1. Table 13.2.1-1. 01/11 ed. |
| Ũ | 01 | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | | 30.8 | tons | Full loading of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 1199 | g/VKT | Aggregate Tpper Truck |
| | | | 1505 | g/VKT | Cement Tanker |
| | | | 1022 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | EP11 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.63E-04 | g/m/s (mitigated) | concrete mixer are 12, 2, and 6 veh/hr respectively. |
| | EP12 | | 1 42E-04 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | ED40 | | 1.722-04 | 5 | concrete mixer are 12, 0, and 6 veh/hr respectively. |
| | EP13 | | 6.35E-05 | g/m/s (mitigated) | INO. OF VERICLE OF Aggregate tipper truck, cement tanker and |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Concrete Mixer |
| | | TSP emission factor. E | 30.8 | 10113 | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | , | 1199 | g/VKT | Aggregate Tpper Truck |
| | | | 1505 | g/VKT | Cement Tanker |
| | | | 1022 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | nr % | rom /:00-19:00 |
| | Source ID: | % of dust suppression Sum of Emission Rate | 99.0 | 70 | Sum of emission rate of addregate tipper truck, cement tanker and |
| | | Can of Enlission Adle | | | concrete mixer. |
| | EP14 | | | a/m/a (mitiacted) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 8.30E-06 | g/m/s (miligaled) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP15 | | 4.00E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | ED16 | | | , | concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | LF 10 | | 1.70E-05 | g/m/s (mitigated) | concrete mixer are 0. 0, and 6 veh/br respectively |
| | EP17 | | | | No. of vehicle of aggregate tipper truck. cement tanker and |
| | | | 8.52E-06 | g/m/s (mitigated) | concrete mixer are 0, 0, and 3 veh/hr respectively. |

| Description | Sources | Parameter | | Emission Bate | Bemarks |
|-------------------|--------------------------------|-------------------------------|-------------|-------------------|--|
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SD |
| Terminus Concrete | outside concrete | | | | License of Everges Bail Link (Appendix C) |
| Ratching Plant | batching plant | Particle size multiplior k | 0.00 | a///KT | AP-12 Section 13.2.1 Table 13.2.1.1.01/11 od |
| Datching Flant | patering plant - | | 5.25 | g/ vici | |
| | Ear Unladan Vahiala | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | I OI OIIIAUEII VEIIICIE | Average truck weight, w | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Gement Tanker |
| | | | 12 | tons | |
| | | ISP emission factor, E | | | E=K x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Tpper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of omission rate of aggregate tipper truck, coment tanker and |
| | | | | | concrete mixer |
| | | | | | |
| | EP18 | | 6.12E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | | 5 (5 <i>)</i> | concrete mixer are 12, 2, and 6 veh/hr respectively. |
| | EP19 | | 5.44E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | 5000 | | | 5 (5 <i>)</i> | concrete mixer are 12, 0, and 6 veh/hr respectively. |
| | EP20 | | 2.31E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| March Kauda an | David Is and us and | | | | concrete mixer are 0, 2, and 6 ven/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | within concrete | Deutista aine andiintian ta | 0.00 | - 0.4/7 | License of Express Rall Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| | E e a l les le ele a Meletelle | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Tpper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | br | From 7:00-19:00 |
| | | % of dust suppression | 00.0 | 0/ | |
| | Source ID: | Sum of Emission Bate | 55.0 | /8 | |
| | Source ID. | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP21 | | 2 725 06 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 2.732-00 | g/m/s (miligated) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP22 | | 1 525 05 | a/m/c (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.522-05 | g/m/s (miligated) | concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP23 | | 3 26E-06 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 5.20L-00 | g/m/s (miligaled) | concrete mixer are 0, 0, and 3 veh/hr respectively. |
| West Kowloon | Unloading aggregate | Consumption Rate | 272000 | kg/h | Extracted from SP License of Express Bail Link (Appendix C) |
| Terminus Concrete | Source ID: EP9- | | 272 | Mg/h | |
| Batching Plant | EP10 | Particle size multiplier, k | 0.74 | | For TSP, AP-42, section 13.2.4, 11/06 ed. |
| (Unloading of raw | | Moisture content, M | 2 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| materials) | | Mean wind speed, U | 3.5 | m/s | PATH Year 2010 mean wind speed |
| | | Enviroing Environ E | 0.000105100 | 1 | E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4) |
| | | Emission Factor, E | 0.002165163 | kg/ivig | (AP-42, section 13.2.4, 11/06 ed.) |
| | | | 0.588924442 | kg/hr | · |
| I | | Mitigation efficiency | 99 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| | | Emission Rate | 1.64E-03 | g/s (mitigated) | A DEC A DEC AND A DEC |
| West Kowloon | Small Cementitious | TSP emission factor | 30 | mg/m3 | All selected at an end as summarian and the selected at the se |
| Terminus Concrete | Material Silos | Dust extraction flow rate for | | | All calculations and assumptions are extracted from SP |
| Batching Plant | Source ID: EP5-EP8 | each mixer | 1300 | m3/nr | License of Express Rall Link (Appendix C). |
| (Cement / PFA | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Silos) | | Nie of energy | | | |
| Í Í | | No. of small cement silos | 4 | | |
| | | Emission height | 21 or 22 | | EP5: 21m, EP6-EP8: 22m |
| | | Emission Rate | 1.08E-02 | g/s (mitigated) | , |
| | PFA weight Hopper | Production rate | 160 | m3/hr | All calculations and assumptions are extracted from SP |
| | Source ID: EP3-EP4 | Density | 0.001989 | mg/m3 | License of Express Rail Link (Appendix C). |
| | | Emission Factor | 0.001000 | | Weight hopper loading AP-42 section 11 12-4 Table 11 12 1 |
| | | | 2.60E-03 | kg/Mg | 6/06 ed |
| | | Emission Bate | 2 20 - 04 | a/s (mitigated) | 0.00 00. |
| West Kowleen | Mixor Source ID: | TSP omission factor | 2.30E-04 | ma/m2 | All calculations and assumptions are extracted from SP |
| Torminus Concrete | ED1 ED2 | Dust extraction flow rate for | 40 | m3/hr | License of Express Bail Link (Appendix C) |
| Batching Plant | | No. of operation hour | 100 | hr | From 7:00 to 19:00 |
| (Mixing Tower) | | No. of small cement silos | 2 | l''' | |
| (witking tower) | | Emission height | 13 | | |
| | | Emission Rate | 1.67E-02 | g/s (mitigated) | |

| Works Area | Sources | | Parameter | | Remarks |
|-------------------|--------------------|----------------------------------|-------------|-----------------------------------|---|
| West Kowloon | Heavy construction | Percentage active area, p | 100 | % | Assume 100% works area for heavy construction |
| Cultural District | Source ID: C1-C10, | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | C14-C18, C26-C29, | No. of working days per month, d | 26 | days | |
| | C32-C33, C37, C39, | No. of working hours per day, h | 12 | hour | |
| | C41-C42, C45-C54, | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | CB1-CB5 | Emission Rate | 0.000239494 | g/m ² /s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.9878E-05 | g/m²/s (mitigated) | |
| | | | | | |
| | Wind Erosion | Percentage active area, p | 100 | % | |
| | Source ID: C1-C10, | Emission Factor | 0.85 | Mg/hectare/year | AP42, Table 11.9-4 |
| | C14-C18, C26-C29, | Emission Rate | 2.69533E-06 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 |
| | C32-C33, C37, C39, | | | | |
| | C41-C42, C45-C54, | | | | |
| | CB1-CB5 | 1 | | | |

| Status Status< | | - | | | | |
|--|---------------------|----------------------|---|----------|-----------------------|---|
| One vs. Big Disc. vs. Big Prof. Consequence Status Disc. Status Prof. Consequence Prof. Consequence Prof. Consequence Status Disc. Status Prof. Consequence Prof. Consequen | Vescription | Sources | Particlo sizo multiplior k | 0.00 | | Hemarks |
| Prioritization Biological Biolog | Kowloon Barging | Haul road to barging | Particle Size multiplier, k Road surface silt loading sl | 3.23 | g/VKT g/m2 | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Seg Unservices of Seg Unservic | Point (Construction | points | Tioad surface sin loading, se | 0.2 | 9/112 | Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1- |
| Provide training and prov | Site) | | | | | 3, 01/11 ed. |
| XII., Yest Average truck weight, W To jacs To jacs To jacs Average truck weight, W To jacs To jacs To jacs To jacs Average truck weight, W To jacs | 0.10) | | | | | Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of |
| Version Average truck weight, W 10 Data TPP entation factor, E TPP entation factor, E TPP entation factor, E TPP entation factor, E No. of coversion factor, E TPP entation factor, E TPP entation factor, E TPP entation factor, E No. of coversion factor, E TPP entation factor, E TPP entation factor, E TPP entation factor, E No. of coversion factor, E TPP entation factor, E TPP entation factor, E TPP entation factor, E No. of coversion factor, E TPP entation factor, E TPP entation factor, E TPP entation factor, E No. of coversion factor, E TPP entation factor, E TPP entation factor, E TPP entation factor, E No. of coversion factor, E TPP entation factor, E TPP entation factor, E TPP entation factor, E No. of coversion factor, E TPP entation factor, E TPP entation factor, E TPP entation factor, E No. of coversion factor, E TPP entation factor, E TPP entation factor, E TPP entation factor, E No. of coversion factor, E TPP entation factor, E TPP entation factor, E TPP entation factor, E No. of coversion factor, E TPP entation factor, E <td></td> <td></td> <td></td> <td></td> <td></td> <td>sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page</td> | | | | | | sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page |
| Arr. Wett Average tools weight, W 10 Inc. Description Verage tools weight, W TSP encision factor, E 2000 setSty Ext. At UV Str. (VV) 126 (Ar-DL, exciton 12.2.1, DV11 ed.) Verage tools weight, W TSP encision factor, E 2000 setSty Ext. At UV Str. (VV) 126 (Ar-DL, exciton 12.2.1, DV11 ed.) Verage tools weight, W TSP encision factor, E 2000 setSty Ext. At UV Str. (VV) 126 (Ar-DL, exciton 12.2.1, DV11 ed.) Verage tools weight, W TSP encision factor 2000 setSty Ext. At UV Str. (VV) 126 (Ar-DL, exciton 12.2.1, DV11 ed.) Verage tools weight, W Verage tools weight, W TSP encision factor Ext. Verage tools weight, W Verage tools weight, W Verage tools weight, W TSP encision factor Ext. Verage tools weight, W Verage tools weight, W Verage tools weight, W TSP encision factor Ext. Verage tools weight, W Verage tools weight, W Verage tools weight, W TSP encision factor Ext. Verage tools weight, W Verage tools weight, W Verage tools weight, W TSP encision factor Ext. Verage tools weight, W Verage tools weight, W Verage tools weight, W TSP encision factor Ext. TSP encision factor | | | | | | Fugitive Dust from Payed and Uppayed Reads |
| Verter Average took weld, W is [ore Average took weld, W Average took weld, W <t< td=""><td></td><td></td><td></td><td></td><td></td><td>i ugitive bust nom raved and onpaved noads.</td></t<> | | | | | | i ugitive bust nom raved and onpaved noads. |
| No. of paration face, it: No. of track trace por day 200 (30) pNT SPL traces SP | | | Average truck weight W | 16 | tons | Average weigh of the vehicles traveling the road, extracted from |
| Image: Second Display Control Control (Second Display Control) Control (Second Display Control) Control (Second Display Control) Vertex No. of particle (Second Display Control) No. of particle (Second Display Contro) No | | | | | | SP License |
| Kill. Wood Operating of State State of personal bink of Constraint of State | | | TSP emission factor, E | 370.7 | g/VKT | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| No. of operating and operating provide influence (No. of operation hour so data supposed PR2, H7R2, H7R2, PR2, H7R2, H7R3, C No. of operation hour so data supposed provide influence (No. of particular provide influence (No. of particular provide influence (No. of particular provide influence (No. of the S0, election of D-Lectine of Express Rail Life (Appendix C) Encentes them DP Lectines of Express Rail Life (Appendix C) Encentes them DP Lectines of Express Rail Life (Appendix C) Rail Life (Appendix C) Rai | | | No. of truck trips per day | 000 | uch deu | Extracted from SP License of Express Rail Link (Appendix C) |
| Interview Private Hitting Private Hitting No. of operation hour 1000 (whisty) Private Hitting Science ID No. of operation hour 127 (minimized) HRA 8 Science ID Private Hitting HRD 9 1000 (whisty) Private Hitting HRD 9 Add at apprecision Private Hitting HRD 9 1000 (whisty) Private Hitting HRD 9 Private Hitting Private Hitting HRD 9 Private Hitting Private Hitting HRD 9 Private Hitting Private Hitting <td></td> <td></td> <td></td> <td>900</td> <td>veh/day</td> <td>For road HRAA B</td> | | | | 900 | veh/day | For road HRAA B |
| Still. Work Construction Construction </td <td></td> <td></td> <td></td> <td>1440</td> <td>veh/day</td> <td>For road HB9</td> | | | | 1440 | veh/day | For road HB9 |
| Year West No. of operation heur Year of year statistic For read Hittit Source DD So | | | | 1080 | veh/day | For road HB10A-C |
| New York Per rand HR12A Per rand HR12A Source 10: HR7A2, HR7A2, | | | | 720 | veh/day | For road HR11 |
| No. of operation hour 12 kr From 700 to 100, or 100, bit 200, bit | | | | 360 | veh/day | For road HR12A |
| New of Quality Approximation (Column Park) Term Link (Appendix C) Secure 1D HR7A2, HK750 C dotat approximation (Column Park) 92% Exact and Column Park HR7A2, HK750 HR7A3 1.98E-00 [pmin (mitigated) No. of trade per days, becaused from SP Lesses of Express Rel Link (Appendix C) HR7A HR7A 2.36E-00 [pmin (mitigated) No. of trade per days, becaused from SP Lesses of Express Rel Link (Appendix C) HR11 1.93E-00 [pmin (mitigated) No. of trade per days, becaused from SP Lesses of Express Rel Link (Appendix C) HR12A 2.36E-00 [pmin (mitigated) No. of trade per days, because of Express Rel Link (Appendix C) VR1. West West Rowtoon Saring Park Decamp of topols Source ID: BPH-7 4.27E-00 [pmin (mitigated) Extract from EX-export of Express Rel Link (Appendix C) VR2. West West Rowtoon Express Rel Link (Appendix C) A27E-00 [pmin (mitigated) Extract from EX-export of Express Rel Link (Appendix 12.1 p.3), assume 12 normal set assumptions are extracted from SP Lesses of trade per days, because days and trade per days. VR3. West West Rowtoon Express Rel Link (Appendix C) A27E-00 [pmin (mitigated) Extract from EX-export of Express Rel Link (Appendix 12.1 p.3), assume 12 normal set assumptions are extracted from SP Lesses of trade per days, because and trade per days. VR4. West Rowtoon Express Rel Link (Appendix C) | | | No. of operation hour | 10 | hr | From 7:00 to 19:00, extracted from SP License of Express Rail |
| Both Bill Wet of lot approximation instance flag 97.5 % Entrance flag Entrance flag Entrance flag No. of the part of the | | | No. of operation hour | 12 | | Link (Appendix C) |
| Sector Dia Encode Dia Encode Dia Encode Dia Sector | | | % of dust suppression | 97.5 | % | Extracted from SP License of Express Rail Link (Appendix C) |
| PH2AC, H14 C 1.38E-04 jmms (migated) No. of the point of up the SP License of Express Na Link (Appendix C) No. of the point of up the SP License of Express Na Link (Appendix C) No. of the point of up the SP License of Express Na Link (Appendix C) No. of the point of up the SP License of Express Na Link (Appendix C) No. of the point of up the SP License of Express Na Link (Appendix C) No. of the point of up the SP License of Express Na Link (Appendix C) No. of the point of up the SP License of Express Na Link (Appendix C) No. of the point of up the SP License of Express Na Link (Appendix C) No. of the point of up the SP License of Express Na Link (Appendix C) No. of vertice of express | | Source ID: | Emission Rate | | | |
| HBA B Jable Column Head Unit (Appendix C) (Particle Unit (Particle Unit (Parti (Particle Unit (Particle Unit (Parti (Particle Unit (Particle Un | | HR7A2, HR7B-C | | 1.93E-04 | g/m/s (mitigated) | No. of truck per day: 900, extracted from SP License of Express |
| Index B 338E-54 (min (miggate)) Pail Unit (Appendix C) Pail Unit (Appendix C) H19 308E-64 (min (miggate)) Pail Unit (Appendix C) Pail Unit (Appendix C) H111 1.54E-54 (min (miggate)) Pail Unit (Appendix C) Pail Unit (Appendix C) H111 1.54E-54 (min (miggate)) Pail Unit (Appendix C) Pail Unit (Appendix C) H1124 7.72E-55 (min (miggate)) Pail Unit (Appendix C) Pail Unit (Appendix C) VIII What (Monor Bargin) Pail C (Appendix C) Pail Unit (Appendix C) Pail Unit (Appendix C) VIII What (Monor Bargin) Pail C (Appendix C) Pail Unit (Appendix C) Pail Unit (Appendix C) VIII What (Monor Bargin) Pail C (Appendix C) Pail C (Appendix C) Pail C (Appendix C) VIII What (Monor Bargin) Pail C (Appendix C) Pail C (Appendix C) Pail C (Appendix C) VIII What (Monor Bargin) Pail C (Appendix C) Pail C (Appendix C) Pail C (Appendix C) VIII What (Monor Bargin) Pail C (Appendix C) Pail C (Appendix C) Pail C (Appendix C) VIII Pail C (Appendix C) Pail C (Appendix C) Pail C (Appendix C) Pail C (Appendix C) <td></td> <td></td> <td></td> <td></td> <td>5 X 5 /</td> <td>Rail Link (Appendix C)</td> | | | | | 5 X 5 / | Rail Link (Appendix C) |
| HB9 1.0.0E.02 pm/s (migated) Role of pm/s (migated) Role of pm/s (migated) H110A-C H111 2.32E 04 pm/s (migated) Role of pm/s (migat | | нкаа-в | | 3.86E-04 | g/m/s (mitigated) | No. of truck per day: 1800, extracted from SP License of Express |
| Image: Source D: Bit Image: Source | | | | | | No. of truck per day: 1440, extracted from SP License of Express |
| HR10A-C HR11 2.38E-or HR11 Product () (Appendix C) No. of truck (Appendix C) No. of truck (Appendix C) XRL - West Keylonia Barding Pertit (E Barging Source ID: P4-7 Unloading of apolis to barge Source ID: P4-7 - 4.27E-03 g/s (mitigated) Statume 12 hours of parents (No. of truck (Appendix C)) XRL - West Keylonia Barding Pertit (E Barging Source ID: P4-7 - 4.27E-03 g/s (mitigated) Statume 12 hours of operation Source ID: P4-7 - 4.27E-03 g/s (mitigated) Statume 12 hours of operation Source ID: P4-7 - 4.27E-03 g/s (mitigated) Statume 12 hours of operation Source ID: P4-7 - 4.27E-03 g/s (mitigated) Statume 12 hours of operation Source ID: P4-7 - 4.27E-03 g/s (mitigated) Statume 12 hours of operation Source ID: P4-7 - 4.27E-03 g/s (mitigated) Statume 12 hours of operation For Lader Vehicle Park Maurice III loading of Appendix C). Statume 12 hours of operation Statume 12 hours of operation For Lader Vehicle Park Maurice III loading of Appendix C). Statume 12 hours of operation Statume 12 hours of operation For Lader Vehicle Parentis statumitpint it No. of operation hour IS of data stapperatio | | 11113 | | 3.09E-04 | g/m/s (mitigated) | Bail Link (Appendix C) |
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| HR11 1.54E-60 gmin (mtigated) Ao. of two provides and security of sport and the sport and security of the sport and security and security of the sport and security of the sport a | | | | 2.32E-04 | g/m/s (mitigated) | Bail Link (Appendix C) |
| HR12A 1.54E-08 g/ms (milgated) Fail Link (Appendix C) Viet. West Kowtoon Barging Points for West Kowtoon Barging Points (P West Kowtoon Terrinks 4.22FE-05 g/ms (milgated) Fail Link (Appendix C) Viet. West Kowtoon Barging Points for West Kowtoon Terrinks 4.22FE-05 g/ms (milgated) Fail Link (Appendix C) Point (S Barging Points for West Kowtoon Terrinks Pail Pin Appendix C) Fail Link (Appendix C) Barbing Paint- Paints (P West Kowtoon Terrinks Pail Pin Appendix C) All calculations and assumptions are estracted from SP License of Express Fail Link (Appendix C) Barbing Paint- Paints (P West Kowtoon Terrinks Pail Pin Appendix C) All calculations and assumptions are estracted from SP License of Express Fail Link (Appendix C) Barbing Paint- Paints (P Magendix C) Paints (milgated) All calculations and assumptions are estracted from SP License of Express Fail Link (Appendix C) Barbing Paint- Paints (P Magendix C) Paints (milgated) All calculations and assumptions are estracted from SP License of Express Fail Link (Appendix C) For Ladon Vehide Road startize siti loading, st Average truck weight, W 3.22 g/VKT AP-42, Section 32.1, Table 12.2.1, 0/11 ed. For Ladon Vehide For and Samgendia (P Magendix C) For and C) Samogendia (P Magendix C) Source D: Source D: | | HR11 | | | | No. of truck per day: 720, extracted from SP License of Express |
| HR12A 7.72E.05 g/ms (mtigated) No. of truck per day: 360, axtraded from SP License of Express Rail Link (Appendix C); XRL, Wedt Newtown Barging Point (5 Barging Point (| | | | 1.54E-04 | g/m/s (mitigated) | Rail Link (Appendix C) |
| Number Processing of sports Procesport sports Processing of sports | | HR12A | | 7 705 05 | e /m /e (mitie etc.d) | No. of truck per day: 360, extracted from SP License of Express |
| XRL. West Rowton Barging Parti S Barging Bourde DI BH-7 source DI BH-7 Rowton Terminus Concerte Barching Plant - Phase 1 | | | | 7.72E-05 | g/m/s (miligaled) | Rail Link (Appendix C) |
| XRL-West (workoon Barging) Unloading of spoils barge Source ID: BP4-7 - 4.27E-03 (pr) (mitgated) Extract from ELA report of Express Rail Link (Appendix 12.1 p.2), assume 12 hours of operation Point 5 Regime Point 5 Regime Concerner Backhow Pint-Pines 1 - - 4.27E-03 (pr) (mitgated) Extract from ELA report of Express Rail Link (Appendix 12.1 p.2), assume 12 hours of operation Outcomet Backhow Pint-Pines 1 - - 4.27E-03 (pr) (mitgated) At calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). Backhow Pint-Pines 1 - - 4.27E-03 (pr) (mitgated) At calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). Backhow Pint-Pint-Pines 1 - - 3.23 (pr) (WT AP 42, Section 13.2.1, Table 13.2.1-0, 0/11 ed. Particle size multiplier, k Pass 1 - - 3.08 (ons Full loading of Concrete Mare Full loading of Concrete Mare Full loading of Concrete Mare Full loading of Concrete Mare Full loading of Concrete Mare For Table 1.105 (pr) (WT Concrete Mare For Table 1.107(W) 12.0(Pr) 4.2, section 13.2.1, 0/11 ed. EP11 - 1.68E-04 (pr/s) (mitgated) - - Sum of Emission factor, E EP12 - 1.68E-04 (pr/s) (mitgated) - - - - West Kowloon P | | | | | | |
| Rowton Barging Points West Points West Points West Points West Points West Points West Points West Points Part - Peas 1 Part - Peas 1 Mest Kowton Pass 1 Part - Peas 1 All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). Mest Kowton Pass 1 Part - Peas 1 All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). For Laden Vehice Past Heat - Peas 1 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. For Laden Vehice Past Section 13.2.1 Past Pass 1 For Laden Vehice Past Section 13.2.1 Past Pass 1 For Laden Vehice Past Section 13.2.1 Past Pass 1 For Laden Vehice Past Section 13.2.1 Past Pass 1 For Laden Vehice Past Section 13.2.1 Past Pass 1 For Laden Vehice Past Section 13.2.1 Past Pass 1 For Laden Vehice Past Pass 1 Past Pass 2 For Laden Vehice Past Pass 1 Past Pass 1 No. of operation hour % of dust spression Rate 12.2 V/VT For Laden Vehice Past Pass 1 1.42E-04 Or vehicle of aggregate tipper truck, coment tanker and concrete mase. Source ID: | XRL - West | Unloading of spoils | | 4.27E-03 | g/s (mitigated) | Extract from EIA report of Express Rail Link (Appendix 12.1 |
| Point 6 Barging Converter Teaming Source ID: BP4-7 Parts for Water Converter Teaming Parts IP Vest Kowborn Phase 1 Part - Phase 1 All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). Vest Kowborn Phase 1 Part - Phase 1 All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). Part - Phase 1 Particle size multiplier, k Average truck weight, W 3.2.3 g/VKT AP-4.2, Section 13.2.1, Table 13.2.1.1, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer Full loading of Concrete Mixer Full loading of Concrete Mixer Fill loading of Aggregate Tipper Truck 199 g/VKT Concrete Mixer Full loading of Concrete Mixer Fill loading of Aggregate Tipper Truck 199 g/VKT Concrete Mixer Source ID: Source ID: Sum of Emission Rate 1.48E-04 g/mix (mitigated) Source ID: Source ID: EP11 1.48E-04 g/mix (mitigated) 8.35E-05 g/mix (mitigated) No. of white respectively. Vest Kowbon Fill loading of Aggregate Tipper Truck, coment tanker and concrete mixer are 1.2, and 6 whith respectively. No. of white respectively. Vest Kowbon Fill loading of Aggregate Tipper Truck, coment tanker and concrete mixer are 1.2, and | Kowloon Barging | to barge | | | | p.3), assume 12 hours of operation |
| Particle Stacking Plant - Plant Batching Plant - Plant A general concrete Batching Plant - Plant Source I Satching Plant - Pla | Point (5 Barging | Source ID: BP4-7 | | | | |
| Construint entitities Plant - Phase 1 West Kowkoon Faminus Concrete Batching plant - Phase1 Particle size multiplier, k Pastel surface silt loading, sL Average truck weight, W TSP emission factor, E 3.23 g/V/T AP-42, Section 13.2, 1.1, abit 132, 1.1, 0/11 ed. Prise Particle size multiplier, k Pastel 12 g/m2 AP-42, Section 13.2, 1.1, abit 132, 1.1, 0/11 ed. Pastel TSP emission factor, E 13 g/m2 AP-42, Section 13.2, 1.1, abit 132, 1.3, 0/11 ed. Source ID: Source ID: Source ID: Source ID: Source ID: West Kowkoon Partial surface silt loading, sL Average truck weight, W TSP emission factor, E 1.63E-64 g/ms (mitigated) No. of operation hour % of dust suppression Sum of Emission Rate 1.63E-64 g/ms (mitigated) No. of vehicle dagragest tipper truck, cement tanker and concrete mixer. EP11 EP12 1.63E-64 g/ms (mitigated) No. of vehicle dagragest tipper truck, cement tanker and concrete mixer. West Kowkoon Terminus Concrete Batching Plant - Phase 1 Particle size multiplier, k For Laden Vehicle 3.32 g/VKT AP-42, Section 13.2, 1.1 abit 13.2, 1.1, 0/111 ed. For Laden Vehicle Batching plant - Phase 1 No. of vehicle dagragest tipper truck, cement tanker and concrete mixer. Source ID: Finit ador Vehicle Badsuring plant - P | Points for West | | | | | |
| Concrete Statum Private Nation All calculations and assumptions are extracted from SP Adverting Plant - Particle size multiplier, k Parabiting Plant - Pases 1 All calculations and assumptions are extracted from SP Adverting Plant - Parabiting Plant - Parabiting Plant - Pases 1 All calculations and assumptions are extracted from SP Adverting Plant - Parabiting Plant - Parabiti | Kowloon Terminus | Diant Diana 4 | | | | |
| wide Adviction provide Advictories Baching plant - Phase1 Paricle size multipler, k passi baching plant - Phase1 Paricle size multipler, k passi plant 323 gVKT AP-42, Section 13.2.1, Table 13.2.1-1, 0/11 ed. Phase1 For Laden Vehicle Raad surface all loading, al. Average truck weight, W 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 0/11 ed. Phase1 For Laden Vehicle Raad surface all loading, al. Average truck weight, W 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 0/11 ed. Phase1 TSP emission factor, E 1199 gVKT Aperage Section 13.2.1, Table 13.2.1-3, 0/11 ed. For Laden Vehicle Rod surface all loading, st. Average truck weight, W 1505 gVKT Concrete Miser For JOB 1000 Sum of Emission factor, E 1199 gVKT Aperage Section 13.2.1, Table 13.2.1-3, 0/11 ed. For JOB 1000 Sum of Emission factor, E 1199 gVKT Aperage Section 13.2.1, Table 13.2.1-3, 0/11 ed. For JOB 100 No. of operation hour % of dust suppression 12.2 gVKT Concrete Miser EP11 No. of peraton hour % of dust suppression 1.4E-04 g/mis (mitigated) No. of wehicle of aggregate tipper truck, cement tanker and concrete miser. EP12 1.4E-04 g/mis (mitigated) No. of wehicle of aggregate tipper truck, cement tanker and concorete miser. Aperage suppressi | Concrete Batching | Plant - Phase 1 | 1 | | 1 | All colouisticne and ecolumntions are extracted from CD |
| Matching Plant- Phase1 Particle size multiplier, k Phase1 Particle size multiplier, k Phase1 3.23 pVKT QVKT AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Phase1 For Laden Vehicle Road surface sitt loading, st. Average truck weight, W Average truck weight, W Average truck weight, W No. of operation hour % of dust suppression 3.23 pVKT QVKT AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Source ID: | Torminus Concrete | Paved naul road | | | | Liconso of Express Pail Link (Appendix C) |
| Phase1 Particle size multiplier, k 3.23 g/k/T AP-42, Section 13.2.1, Table 13.2.1, 30/11 ed. Phase1 For Laden Vehicle Red surface sith cading, st. 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1, 30/11 ed. Phase1 For Laden Vehicle Red surface sith cading, st. 30.8 lons Full loading of Common Tasker TSP emission factor, E 1199 g/VkT Agregate Tipper Truck Ex. kx (st/10-91 x (W)*102 (AP-42, section 13.2.1, 01/11 ed.) No. of operation hour 122 lpr From 7:00-19:00 Sum of Emission rate of aggregate tipper truck, cement tanker and concrete mixer EP11 Source ID: Sum of Emission Rate 97.5 % Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 wehthr respectively. EP12 1.63E-04 g/ms (mitigated) Rod surface all topic truck, cement tanker and concrete mixer are 12, 0, and 6 wehthr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 wehthr respectively. West Kowloon Paved haul road 6.35E-05 g/ms (mitigated) Rod surface all topic (McMeree Aggregate tipper truck, cement tanker and concrete mixer are 0.2, and 6 wehthr respectively. West Kowloon For Laden Vehicle For Laden Vehicle Surgeate tipper truck AP-42, Sec | Batching Plant - | hatching plant - | | | | Elcense of Express half Ellik (Appendix C). |
| West Kowtoon Proce Ladem Vehicle Read surface sill loading, st. Average truck weight, W 12 g/m2 45 lons AP-42, Section 13.2.1, Table 13.2.1.3, 01/11 ed. Vest Kowtoon TSP emission factor, E 1199 g/VKT Full loading of Qoncorte Mixer Source ID: Source ID: Sum of Emission Rate 97.5 % EP11 1.63E-04 g/ms (mitigated) Source ID: Sum of Emission rate of aggregate tipper truck, cement tanker and concrete mixer EP11 1.63E-04 g/ms (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12.2, and the swhith respectively. EP11 1.63E-04 g/ms (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12.2, and the swhith respectively. EP13 EP14 1.63E-04 g/ms (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12.2, and the swhith respectively. Batching Plant - Particle size multiplier, k 3.2.2 g/VKT No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12.2, and the swhith respectively. Batching Plant - Particle size multiplier, k 3.2.2 g/VKT No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12.2, and the swhith respectively. Batching Plant - Particle size multiplier, k | Phase1 | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| West Kowlon Average truck weight, W 36 lons Full loading of Aggregate Tipper Truck TSP emission factor, E 30.8 lons Full loading of Ceneme Tanker 30.8 lons Extended to the second seco | | For Laden Vehicle | Road surface silt loading, sL | 12 | a/m2 | AP-42. Section 13.2.1. Table 13.2.1-3. 01/11 ed. |
| Mess Norm 45 ions Full loading of Concrete Miser TSP emission factor, E 30.8 ions Full loading of Concrete Miser TSP emission factor, E 1199 gVKT Aggregate Tpper Truck Source ID: Source ID: Source ID: Source ID: Source ID: Sum of Emission Rate g/ms (mitigated) Concrete Miser EP11 1.63E-04 g/ms (mitigated) No. of operation hour 7.5 % Source ID: Sum of Emission Rate g/ms (mitigated) No. of verificie of aggregate tipper truck, cement tanker and concrete mixer EP11 1.63E-04 g/ms (mitigated) No. of verificie of aggregate tipper truck, cement tanker and concrete mixer and con | | | Average truck weight. W | 36 | tons | Full loading of Aggregate Tipper Truck |
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| FSP emission factor, E Lex (k1)*0.91x (W)*1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Aggregate Tpper Truck Mod of operation hour 1120 % of dust suppression 97.5 Source ID: Sum of Emission Rate Sur of EP12 1.63E-04 eF12 1.42E-04 eF12 1.42E-04 eF13 6.35E-05 off's (mitigated) Concrete Timer concrete mixer 0.40khr respectively. West Kowtoon Fer12 EF13 6.35E-05 off's (mitigated) Concrete Timer outside correte Alt calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). Terminus Concrete Batching Plant - Phase 1 Particle size multiplier, k Source ID: Sum of operation hour TSP emission factor, E Imitigated) own's (mitigated) Concrete Mixer outside correte Alt calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). Batching Plant - Particle size multiplier, k 3.23 | | | | 30.8 | tons | Full loading of Concrete Mixer |
| Here Here Here Here Here Here Aggregate Tpper Truck No. of operation hour 1606 g/VT Ceneret Tarker Concrete Mixer Source ID: Sum of Emission Rate 97.5 % Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. EP11 1.63E-04 g/m/s (mitigated) No. of operation hour 12 hr EP12 1.63E-04 g/m/s (mitigated) No. of operation tarker and concrete mixer are 12.0, and 6 wehthr respectively. West Kowloon EP12 1.42E-04 g/m/s (mitigated) No. of operation spectrum tarker and concrete mixer are 12.0, and 6 wehthr respectively. Terminus Concrete Particle size multiplier, k 3.23 g/VKT AP-42, Section 13.2.1, Table 13.2.1.3, 0.1/1 ed. Phase 1 Particle size multiplier, k 3.23 g/VKT AP-42, Section 13.2.1, Table 13.2.1.3, 0.1/1 ed. Phase 1 For Laden Vehicle Road surface sit loading, sL 2 g/m2 AP-42, Section 13.2.1, Table 13.2.1.3, 0.1/1 ed. Phase 1 For Laden Vehicle Road surface sit loading, sL 2 g/VKT AP-42, Section 13.2.1, Table 13.2.1.3, 0.1/1 ed. Source ID: Sum of Emission fater 110 g/VC 2 g/VKT A | | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| West Kowloon Paved haul road Particle size multiplier, k 3.28 g/VKT Cement Tanker West Kowloon Paved haul road g/ms g/ms Mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/m respectively. West Kowloon Paved haul road g/ms g/ms (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/m respectively. West Kowloon Paved haul road g/ms g/ms (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/m respectively. Mest Kowloon Paved haul road g/ms g/ms Mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/m respectively. Batching Plant - Phase 1 Particle size multiplier, k 3.23 g/wKT AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Phase 1 For Laden Vehicle Road surface sitt loading, sL. 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Source ID: Source ID: Source ID: Source ID: Source ID: Source ID: Source ID: Particle size multiplier, k 12.23 g/wKT AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Phase 1 Phase 1 Phit Section SP Source ID: | | | | 1199 | g/VKT | Aggregate Tpper Truck |
| West Kowloon Paved haul road 1.63E-04 g/WKT Concrete Mixer EP11 1.63E-04 g/ms (mitigated) Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer EP12 1.42E-04 g/ms (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer West Kowloon EP13 6.35E-05 g/ms (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2, and 6 veh/hr respectively. West Kowloon Paved haul road 6.35E-05 g/ms (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2, and 6 veh/hr respectively. West Kowloon Raved haul road 6.35E-05 g/ms (mitigated) All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). Batching Plant - Particle size multiplier, k 3.23 g/WKT AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Phase 1 For Laden Vehicle Read surface sit loading, sL Read surface sit loading, sL Enns Fill loading of Concrete Mixer Full loading of Concrete Mixer Full loading of Concrete Mixer Source ID: No. of operation hour % of dust suppression Sum of emission rate of aggregate tipper truck, cement tanker and concrete Mixer Fill loading of Concrete Mixer Full loading of Concrete Mixer Full loading of Concrete Mixer </td <td></td> <td></td> <td></td> <td>1505</td> <td>a/VKT</td> <td>Cement Tanker</td> | | | | 1505 | a/VKT | Cement Tanker |
| No. of operation hour % of dust suppression Sum of Emission Rate No. of operation hour % of dust suppression Sum of Emission Rate Protection (Sum of Emission rate of aggregate tipper truck, cement tanker and concrete mixer. EP11 1.63E-04 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer. EP12 1.42E-04 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer and 2.2, and 6 veh/hr respectively. West Kowloon Terminus Concrete Batching Plant - Phase 1 Paved haul road ouiside concrete batching plant - Phase 1 Alf-actuations and assumptions are extracted from SP License of Express Rail Link (Appendix C). For Laden Vehicle For Laden Vehicle Road surface sill loading, sL Average truck weight, W % of dust suppression Source ID: 3.23 g/VkT AP-42, Section 13.2.1, Table 13.2.1.3, 01/11 ed. Fill loading of Coment Tanker Source ID: TSP emission factor, E 1199 g/VkT Ap-42, Section 13.2.1, 10/11 ed. Source ID: Source ID: Sum of Emission rate of aggregate tipper Truck Average truck weight, W % of dust suppression Sum of Emission rate of aggregate tipper Truck Cement Tanker Source ID: Source ID: Source ID: Sum of Emission rate of aggregate tipper Truck, cement tanker and concrete mixer Source ID: Source ID: Source ID: Source ID: <t< td=""><td></td><td></td><td></td><td>1000</td><td>9, VICT</td><td>Constate Mixer</td></t<> | | | | 1000 | 9, VICT | Constate Mixer |
| No. 0 of operation hour 12 hr Prof 7.00-19:00 % of dust suppression Sum of Emission Rate 97.5 % Source ID: Sum of Emission Rate 1.63E-04 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. West Kowloon EP12 1.42E-04 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. West Kowloon Paved haul road 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. West Kowloon Paved haul road 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. West Kowloon Paved haul road 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. Phase 1 Paved haul road 1.42E-04 g/m/s All calculations and assumptions are extracted from SP License CExpress Ball Link (Appendix C). Particle size multiplier, k 3.23 g/VKT AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Phase 1 For Laden Vehicle Road surface silt loading, sl. 12 g/m/S AP-42, Section 13.2.1, Calve 13.2.1, 01/11 | | | | 1022 | 9/ VK I | |
| Source ID: Sum of Emission Rate 9'.5 % Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. EP11 1.63E-04 g/m's (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12.2, and 6 veh/hr respectively. EP12 1.42E-04 g/m's (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12.2, and 6 veh/hr respectively. West Kowtoon Paved haul road outside concrete g/m's (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2, and 6 veh/hr respectively. Batching Plant - Phase 1 Particle size multiplier, k 3.23 g/VKT AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. AP42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. For Laden Vehicle Road surface sit loading, sL. 12 g/m2 AP-42, Section 13.2.1, a0/1/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. AP-42, Section 13.2.1, a0/1/11 ed. AP-42, Section 13.2.1, 01/11 ed. For Laden Vehicle Road surface sit loading, sL. 1199 g/VKT Genernt Tanker TSP emission factor, E 1199 g/VKT Concrete Mixer Concrete Mixer No. of operation hour % of dust suppression 90.0 % Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer are 0.2, and 0 veh/hr respectively. | | | No. of operation hour | 12 | nr | From 7:00-19:00 |
| Source ID: Source ID: Sum of Emission Hate Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. EP11 1.63E-04 g/ms (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer. West Kowloon EP13 6.35E-05 g/ms (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer. West Kowloon Paved haul road 6.35E-05 g/ms (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/m respectively. Mest Kowloon Paved haul road eminus Concrete No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/m respectively. Phase 1 Particle size multiplier, k 3.23 g/WKT AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Phase 1 For Laden Vehicle Road surface silt loading, sL 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Phase 1 For Laden Vehicle Road surface silt loading, sL 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Phase 1 For Laden Vehicle Road surface silt loading, sL 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Phase 1 For Laden Vehicle Road surface silt loading, sL 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. For Laden Vehicle Road surface s | | 0 15 | % of dust suppression | 97.5 | % | |
| EP11 1.63E-04 g/m's (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. West Kowloon EP13 1.42E-04 g/m's (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. West Kowloon Paved haul road outside concrete 6.35E-05 g/m's (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 10, 2, and 6 veh/hr respectively. Batching Plant - Phase 1 Paved haul road outside concrete all calculations and assumptions are extracted from SP Etching Plant - Phase 1 Particle size multiplier, k 3.23 g/WKT AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. For Laden Vehicle Road surface silt loading, sL 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. For Laden Vehicle Road surface silt loading, sL 1199 g/VKT Agregate Tipper Truck TSP emission factor, E 1199 g/VKT Concrete Mixer Elk (sL)^0.91X (W)'1.02 (AP-42, section 13.2.1, 01/11 ed.) Source ID: Sum of Emission rate of aggregate tipper truck, cement tanker and concrete mixer Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer EP14 8.36E-06 g/m's (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. <td></td> <td>Source ID:</td> <td>Sum of Emission Rate</td> <td></td> <td></td> <td>Sum of emission rate of aggregate tipper truck, cement tanker and</td> | | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| EP11 1.63E-04 g/m's (mitigated) No. of vehicle of aggregate itoper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. West Kowloon EP13 1.42E-04 g/m's (mitigated) No. of vehicle of aggregate itoper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. West Kowloon Paved haul road 6.35E-05 g/m's (mitigated) No. of vehicle of aggregate itoper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/hr respectively. Mest Kowloon Paved haul road 6.35E-05 g/m's (mitigated) No. of vehicle of aggregate itoper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/hr respectively. Mest Kowloon Paved haul road Paved haul road Elcense of Express Rail Link (Appendix C). Batching Plant - Phase 1 Particle size multiplier, k 3.23 g/WKT Phase 1 For Laden Vehicle Road surface silt loading, sL 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Ap-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Average truck weight, W A6 tons Full loading of Concrete Mixer TSP emission factor, E 1199 g/VKT Ap-42, Section 13.2.1, 01/11 ed. No. of operation hour 12 hr For Jost weight are per Truck Sum of emission rate of aggregate tipper Truck, cement tanker and concrete mixer are 0, 2, and 0 weh/hr respectively. No. of vehicle of ag | | | | | | concrete mixer. |
| P12 1.052-04 g/ms (mitigated) concrete mixer are 12, 2, and 6 veh/hr respectively. West Kowloon EP13 1.42E-04 g/m/s (mitigated) West Kowloon Paved haul road 6.35E-05 g/m/s (mitigated) Terminus Concrete Batching Plant - Paved haul road 2, and 6 veh/hr respectively. Batching Plant - Paved haul road 6.35E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/hr respectively. Batching Plant - Paved haul road extracted from SP License of Express Rail Link (Appendix C). Batching Plant - Phase 1 Particle size multiplier, k 3.23 g/VKT AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Phase 1 For Laden Vehicle Road surface silt loading, sL 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Fill loading of Comerte Tanker TSP emission factor, E 1199 g/VKT Gement Tanker TSP emission factor, E 1199 g/VKT Concrete Mixer E+x (sL)*0.91x (W)*10.2 (AP-42, section 13.2.1, 01/11 ed.) Source ID: Sum of Emission Rate 90.0% Sum of Emission rate of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete Mixer 1199 g/WKT <td></td> <td>EP11</td> <td></td> <td>1 625 04</td> <td>a/m/s (mitigated)</td> <td>No. of vehicle of aggregate tipper truck, cement tanker and</td> | | EP11 | | 1 625 04 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| EP12 1.42E-04 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/hr respectively. West Kowloon Paved haul road outside concrete g/m/s (mitigated) All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). Batching Plant - Phase 1 Particle size multiplier, k 3.23 g/VKT AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Phase 1 For Laden Vehicle Road surface silt loading, sl. Average truck weight, W 36 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. For Laden Vehicle Road surface silt loading, sl. Average truck weight, W 36 Stons Full loading of Aggregate Tipper Truck TSP emission factor, E 1199 g/VKT Cement Tanker E+x (sl.)^0.91X (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tipper Truck 1052 g/VKT Concrete Mixer Sum of emission factor, E 1199 g/VKT Concrete Mixer Sum of emission Rate Sum of emission rate of aggregate tipper truck, cement tanker and concrete Mixer EP14 Source ID: Sum of Emission Rate g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. EP16 1.70E-05 g/m/s (mitigated) <td< td=""><td></td><td></td><td></td><td>1.03E-04</td><td>g/m/s (milligated)</td><td>concrete mixer are 12, 2, and 6 veh/hr respectively.</td></td<> | | | | 1.03E-04 | g/m/s (milligated) | concrete mixer are 12, 2, and 6 veh/hr respectively. |
| EP13 Concrete of the fundation of the fundat | | EP12 | | 1 42F-04 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| LP13 6.35E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2, and 6 veh/tr respectively. West Kowloon Terminus Concrete batching Plant - Phase 1 Paved haul road outside concrete batching plant - Paved haul road outside concrete All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). Phase 1 Por Laden Vehicle Road surface silt loading, sL Average truck weight, W 3.2.3 g/VKT AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. For Laden Vehicle Road surface silt loading, sL Average truck weight, W 12.6 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Comment Tanker TSP emission factor, E 11.90 g/VKT Cement Tanker Source ID: Sum of Emission Rate 90.% 2 g/WKT Concrete Mixer EP14 EP15 4.00E-05 g/m/s (mitigated) Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer are 0.2, and 0 weh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2, and 0 weh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2, and 0 weh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2, and 0 weh | | 5540 | | | sgalou, | concrete mixer are 12, 0, and 6 veh/hr respectively. |
| West Kowloon Paved haul road Concrete mixer are 0, 2, and 6 veh/hr respectively. Mest Kowloon Outside concrete autside concrete Batching Plant - Particle size multiplier, k 3.23 g/VKT AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Phase 1 For Laden Vehicle Road surface sill loading, sL 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Average truck weight, W 36 tons Full loading of Cement Tanker Full loading of Concrete Mixer TSP emission factor, E 1199 g/VKT Aggregate Tipper Truck Concrete Mixer No. of operation hour % of dust suppression 99.0 % Sum of Emission rate of aggregate tipper truck, cement tanker and concrete mixer. EP14 EP14 8.36E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 0 veh/hr respectively. EP16 1.70E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 0 veh/hr respectively. | | EP13 | | 6.35E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| Target Homoon Particle size multiplier, k 3.23 g/VKT AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Phase 1 For Laden Vehicle Road surface silt loading, sL 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Phase 1 For Laden Vehicle Road surface silt loading, sL 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. For Laden Vehicle Road surface silt loading, sL 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. For Laden Vehicle Road surface silt loading, sL 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Cement Tanker Full loading of Cement Tanker Full loading of Cement Tanker TSP emission factor, E 1199 g/VKT Aggregate Tpper Truck No. of operation hour 122 g/VKT Concrete Mixer No. of operation hour 12 lp hr From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer EP14 8.36E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. FP16 1.70E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker | West Kowless | Poyod baul read | | | · · · · | concrete mixer are 0, 2, and 6 ven/hr respectively. |
| Batching Plant - Phase 1 batching plant - Phase 1 Particle size multiplier, k Road surface silt loading, sL Average truck weight, W 3.23 g/VKT AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. For Laden Vehicle For Laden Vehicle Road surface silt loading, sL Average truck weight, W 36 tons Full loading of Aggregate Tipper Truck TSP emission factor, E 1199 g/VKT Aggregate Tipper Truck Full loading of Concrete Mixer TSP emission factor, E 1199 g/VKT Aggregate Tipper Truck No. of operation hour % of dust suppression 12 hr From 7:00-19:00 Source ID: Sum of Emission Rate g/m/s (mitigated) Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. EP16 1.70E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 0 veh/hr respectively. EP17 8.52E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 0 veh/hr respectively. | Terminus Concrete | outside concrete | | | | License of Express Bail Link (Appendix C) |
| Phase 1 Particle size multiplier, k 3.23 g/VKT AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Phase 1 For Laden Vehicle Road surface silt loading, sL 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Phase 1 For Laden Vehicle Road surface silt loading, sL 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Phase 1 Average truck weight, W 36 lons Full loading of Cement Tanker TSP emission factor, E 30.8 lons Full loading of Concrete Mixer E=k x (sL)^0.9.1x (W)^-1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tipper Truck No. of operation hour 9g/VKT Aggregate Tipper Truck Source ID: Sum of Emission Rate 99.0 % EP14 8.36E-06 g/m/s (mitigated) EP15 4.00E-05 g/m/s (mitigated) EP16 1.70E-05 g/m/s (mitigated) EP17 8.52E-06 g/m/s (mitigated) | Batching Plant - | batching plant - | | | | License of Express nail Link (Appendix C). |
| For Laden Vehicle Road surface silt loading, sL 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Average truck weight, W 36 tons Full loading of Aggregate Tipper Truck Average truck weight, W 36 tons Full loading of Cement Tanker TSP emission factor, E 1199 g/WKT Aggregate Tipper Truck TSP emission factor, E 1199 g/VKT Aggregate Tipper Truck No. of operation hour 122 hr Aggregate Tipper Truck % of dust suppression 99.0 Sum of Emission rate of aggregate tipper truck, cement tanker and concrete mixer. EP14 8.36E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. EP15 4.00E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. EP16 1.70E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. EP17 8.52E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. | Phase 1 | - atoming plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Average truck weight, W 36 lons Full loading of Aggregate Tipper Truck Average truck weight, W 36 lons Full loading of Cement Tanker TSP emission factor, E 30.8 lons Full loading of Concrete Mixer TSP emission factor, E 1199 g/VKT Aggregate Tipper Truck No. of operation hour 12 hr Cement Tanker VKT Concrete Mixer Concrete Mixer No. of operation hour 12 hr From 7:00-19:00 % of dust suppression 99.0 % Sum of Emission rate of aggregate tipper truck, cement tanker and concrete mixer. EP14 8.36E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. EP15 4.00E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. EP16 1.70E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. FP17 8.52E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. | | For Laden Vehicle | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| 45 tons Full loading of Cement Tanker TSP emission factor, E 3.0.8 tons Full loading of Concrete Mixer 1199 g/VKT Aggregate Tpper Truck Aggregate Toper Truck Cement Tanker 1022 g/VKT Cement Tanker 1022 g/VKT Concrete Mixer 1024 hr From 7:00-19:00 1025 g/m/s (mitigated) No. of vehicle of aggregate tipper tr | | | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck |
| Source ID: Sum of Emission Rate 30.8 tons Full loading of Concrete Mixer EP14 8.36E-06 g/WKT Cement Tanker and concrete mixer. EP14 8.36E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. EP15 4.00E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. EP16 1.70E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. EP17 8.52E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. | | | | 45 | tons | Full loading of Cement Tanker |
| TSP emission factor, E 1199 g/VKT Aggregate Tpper Truck Aggregate Tpper Truck Cement Tanker Cement Tanker No. of operation hour 12 hr % of dust suppression 99.0 Source ID: Sum of Emission Rate EP14 8.36E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer. EP15 4.00E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. EP16 1.70E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. EP17 8.52E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. | | | | 30.8 | tons | Full loading of Concrete Mixer |
| Image: No. of operation hour with of dust suppression 1199 g/VKT Aggregate Tpper Truck No. of operation hour with of dust suppression 12 hr From 7:00-19:00 Source ID: Sum of Emission Rate 8.36E-06 g/m/s (mitigated) Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. EP14 8.36E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. EP15 4.00E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. EP16 1.70E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. EP17 8.52E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. | | | TSP emission factor, E | | a 0/7 | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| Image: No. of operation hour % of dust suppression 1022 g/VKT Cement 1 anker Source ID: Sum of Emission Rate 102 g/VKT Concrete Mixer EP14 Sum of Emission Rate Sum of Emission Rate Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. EP15 4.00E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. EP16 1.70E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 20, 0, and 6 veh/hr respectively. EP17 8.52E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. | | | | 1199 | | Aggregate Ipper Iruck |
| No. of operation hour % of dust suppression 12 bhr From 7:00-19:00 Source ID: Sum of Emission Rate 99.0 % EP14 8:36E-06 g/m/s (mitigated) EP15 4:00E-05 g/m/s (mitigated) EP16 1:70E-05 g/m/s (mitigated) EP17 8:52E-06 g/m/s (mitigated) | | | | 1505 | | Cement Lanker |
| No. of operation notify 12 mm From 7.00-19:00 % of dust suppression 99.0 % Source ID: Sum of Emission Rate Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. EP14 8.36E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. EP15 4.00E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. EP16 1.70E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. EP17 8.52E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. | | | No. of operation hour | 1022 | y/vr.l br | |
| Source ID: Sum of Emission Rate Source ID: Sum of Emission Rate EP14 8.36E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. EP15 4.00E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. EP16 1.70E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. EP17 8.52E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. | | | No. of operation nour | 12 | 0/ | F1011 7.00-19:00 |
| EP14 8.36E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. EP15 4.00E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. EP16 1.70E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. EP17 8.52E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. | | Source ID. | Sum of Emission Rate | 55.0 | <i>1</i> 0 | Sum of emission rate of aggregate tipper truck, coment tapker and |
| EP14 8.36E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. EP15 4.00E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. EP16 1.70E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. EP17 8.52E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. | | | | | | concrete mixer. |
| EP15 4.00E-05 g/m/s (mitigated) concrete mixer are 0, 2, and 0 veh/hr respectively. EP16 1.70E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. EP17 8.52E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. | | EP14 | | 0.005 | | No. of vehicle of aggregate tipper truck, cement tanker and |
| EP15 4.00E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. EP16 1.70E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. EP17 8.52E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. | | | | 8.36E-06 | g/m/s (mitigated) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| EP16 1.70E-05 g/m/s (mitigated) concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. EP17 8.52E-06 g/m/s (mitigated) | | EP15 | | | a/m/s (mitigsted) | No. of vehicle of aggregate tipper truck, cement tanker and |
| EP16 1.70E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. EP17 8.52E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. | | | | 4.00E-05 | g/m/s (milligated) | concrete mixer are 12, 0, and 0 veh/hr respectively. |
| EP17 8.52E-06 g/m/s (mitigated) concrete mixer are 0, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. | | EP16 | | 1 70F-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| EP17 8.52E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and | | | | 1.702-00 | g | concrete mixer are 0, 0, and 6 veh/hr respectively. |
| | | EP17 | | 8.52E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |

| Description | Sources | Parameter | | Emission Bate | Bemarks |
|---------------------|-----------------------|---|-------------|--|--|
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant - | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Phase 1 | For Unladon Vohiolo | Road aurface ailt loading, al | 10 | - a/m2 | AP 42 Section 12.2.1 Table 12.2.1.2 01/11 od |
| | I OI OIIIaden venicie | Average truck weight W | 12 | tons | Unladen weight of Aggregate Tipper Truck |
| | | riverage track weight, w | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Tpper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | Source ID: | % of dust suppression | 97.5 | % | |
| | Source ID. | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | 5540 | | | | |
| | EP18 | | 6.12E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | EP19 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | - | | 5.44E-05 | g/m/s (mitigated) | concrete mixer are 12, 0, and 6 veh/hr respectively. |
| | EP20 | | 2.31E-05 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 2.012.00 | g/ms (milgalod) | concrete mixer are 0, 2, and 6 veh/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Batching Plant - | batching plant - | | | | License of Express han Link (Appendix C). |
| Phase 1 | batomig plant | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| | For Unladen Vehicle | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | TOD | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Ipper Iruck |
| | | | 491 | g/VKT | |
| | | | 391 | g/VKI | |
| | | No. of operation nour | 12 | nr | From 7:00-19:00 |
| | Source ID: | % of dust suppression Sum of Emission Bate | 99.0 | % | |
| | Source ID. | Sull of Emission hate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | E DO4 | | | | concrete mixer. |
| | EP21 | | 2.73E-06 | g/m/s (mitigated) | No. of venicle of aggregate tipper truck, cement tanker and |
| | EP22 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.52E-05 | g/m/s (mitigated) | concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP23 | | 3 26E-06 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 0.20L-00 | g/m/3 (miligaled) | concrete mixer are 0, 0, and 3 veh/hr respectively. |
| West Kowloon | Unloading aggregate | Consumption Rate | 272000 | kg/h | Extracted from SP License of Express Rail Link (Appendix C). |
| Batching Plant - | Source ID. EF9- | | 272 | Mg/h | |
| Phase 1 (Unloading | 21.10 | Particle size multiplier, k | 0.74 | | For TSP, AP-42, section 13.2.4, 11/06 ed. |
| of raw materials) | | Moisture content, M | 2 | % | 2012) |
| | | Mean wind speed. U | 3.5 | m/s | PATH year 2010 mean wind speed |
| | | | 0.000105100 | | E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4) |
| | | Emission Factor, E | 0.002165163 | kg/Mg | (AP-42, section 13.2.4, 11/06 ed.) |
| | | | 0.588924442 | kg/hr | |
| | | Mitigation efficiency | 99 | % | Extracted from Specified Processes License (checked on 13 Jan |
| | | Enviraina Data | 4.045.00 | | 2012) |
| West Kowleen | Small Compatitious | Emission Rate | 1.64E-03 | g/s (mitigated) | |
| Terminus Concrete | Material Silos | Dust extraction flow rate for | 30 | ing/ins | All calculations and assumptions are extracted from SP |
| Batching Plant - | Source ID: EP5-EP8 | each mixer | 1300 | m3/hr | License of Express Rail Link (Appendix C). |
| Phase 1 (Cement / | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| PFA Silos) | | No. of small coment silos | 1 | | |
| | | | | | |
| | | Emission height | 21 or 22 | a/a (mitianta-1) | EP5: 21M, EP6-EP8: 22M |
| | PFA weight Hoppor | Emission rate | 1.08E-02 | y/s (mingale0) | All calculations and accumptions are extracted from CD |
| | Source ID: EP3-FP4 | Density | 0.001000 | ma/m3 | License of Express Rail Link (Appendix C) |
| | | Emission Factor | 0.001989 | ing/110 | Weight hopper loading AP-42 section 11 12-4 Table 11 12 1 |
| | | | 2.60E-03 | kg/Mg | 6/06 ed. |
| | | Emission Rate | 2.30E-04 | g/s (mitigated) | |
| West Kowloon | Mixer Source ID: | TSP emission factor | 40 | mg/m3 | All calculations and assumptions are extracted from SP |
| Terminus Concrete | EP1-EP2 | Dust extraction flow rate for | 1500 | m3/hr | License of Express Bail Link (Appendix C). |
| Batching Plant - | | each mixer | | br | From 7:00 to 10:00 |
| Tower) | | No. of small cement siles | 12 | TH CONTRACT OF | Extracted from Specified Processes License (checked on 13 Jan |
| | | Emission height | 13 | | 2012) |
| | | Emission Rate | 1.67E-02 | g/s (mitigated) | |
| Concrete Batching | Plant - Phase 2 | | | | All selected as a final second s |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from |
| Batching Plant - | batching plant - | | | | VFP (Appendix C1). |
| Phase 2 | - atoming plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| (Construction Site) | Toward CBP | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| , | | Average truck weight, W | 38 | tons | Aggregate Tipper Truck (Laden) |
| | | | 44 | tons | Cenerate Mixer Truck (Unleden) |
| | | TSP emission factor F | 13 | 1013 | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 1267 | g/VKT | Aggregate Tpper Truck |
| | | | 1471 | g/VKT | Cement Tanker |
| | | No. of opporation beau | 424 | g/VKT | Concrete Mixer |
| | | NU. OF OPERATION NOUR | 12 | % | From 7:00-19:00 |
| | Source ID: | Sum of Emission Rate | 51.0 | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | AEP 1 | | 1 /1 = 04 | a/m2/s (miticated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| 1 | | | 1.412-04 | sEro (mitigatea) | concrete mixer are 10, 0, and 10 veh/hr respectively P.6 of 21 |

| Description | Sources | Parameter | | Emission Rate | Remarks |
|---------------------|---------------------|---|----------------|--------------------|--|
| | AEP 2 | | - - - - | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 5.99E-05 | g/m2/s (mitigated) | concrete mixer are 0, 2, and 10 veh/hr respectively. |
| | AEP 3 | | | a/m2/a (miticated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.65E-04 | g/m2/s (mitigated) | concrete mixer are 10, 2, and 10 veh/hr respectively. |
| | AEP 0 | | 3.53E-05 | g/m2/s (mitigated) | concrete mixer are 0, 0, and 10 veh/hr respectively. |
| | AEP 8 | | 1.06E-04 | g/m2/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer are to, o, and o veni/mi respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from |
| Terminus Concrete | outside concrete | | | | Environmental Review report (v. 2012Oct) of Express Rail Link |
| Batching Plant - | batching plant - | | | | VEP (Appendix C1). |
| Phase 2 | Toward CDD | Particle size multiplier, k Boad surface silt loading sl | 3.23 | a/VKI a/m2 | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| (Construction Site) | Toward CBP | Average truck weight. W | 38 | tons | Aggregate Tipper Truck (Laden) |
| | | | 44 | tons | Cement Tanker (Laden) |
| | | | 13 | tons | Concrete Mixer Truck (Unladen) |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 1267 | g/VKT | Aggregate Tpper Truck |
| | | | 1471 | | Cement Tanker |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 100.0 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | AEP 4 | | 0.00E+00 | g/m2/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer are 10, 4, and 10 ven/nr respectively. |
| | ALI J | | 0.00E+00 | g/m2/s (mitigated) | concrete mixer are 0.2 and 0 veh/hr respectively |
| | AEP 7 | | = | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 0.00E+00 | g/m2/s (mitigated) | concrete mixer are 10, 0, and 0 veh/hr respectively. |
| | | | | | |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from |
| erminus Concrete | outside concrete | | | | Environmental Review report (v. 2012Oct) of Express Rail Link |
| Phase 2 | batching plant - | Particle size multiplier k | <i>5</i> 00 | g/VKT | AP-42 Section 13.2.1 Table 13.2.1-1 01/11 ed |
| (Construction Site) | Leave CBP | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| () | | Average truck weight, W | 18 | tons | Aggregate Tipper Truck (Unladen) |
| | | 0 0 1 | 14 | tons | Cement Tanker (Unladen) |
| | | | 30 | tons | Concrete Mixer Truck (Laden) |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 591 | g/VK1 | Aggregate Ipper Iruck |
| | | | 437 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 91.0 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | AEP 9 | | 7.62E-06 | g/m2/s (mitigated) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | AEP 11 | | | a/m2/a (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 8.29E-05 | g/m2/s (mitigated) | concrete mixer are 0, 0, and 10 veh/hr respectively. |
| | AEP 12 | | 9.06E-05 | g/m2/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | AEP 13 | | | 3 | concrete mixer are 0, 2, and 10 veh/hr respectively. |
| | | | 9.06E-05 | g/m2/s (mitigated) | concrete mixer are 0, 0, and 10 veh/hr respectively. |
| | AEP 14 | | 4 92F-05 | g/m2/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | AEP 16 | | | 3 | concrete mixer are 10, 0, and 0 veh/hr respectively. |
| | ALL TO | | 1.32E-04 | g/m2/s (mitigated) | concrete mixer are 10, 0, and 10 veh/hr respectively. |
| | AEP 17 | | 1.32E-04 | g/m2/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.522-04 | g/mz/s (mitigated) | concrete mixer are 10, 0, and 10 veh/hr respectively. |
| West Kowloon | Paved haul road | | 1 | | All calculations and assumptions are extracted from |
| Terminus Concrete | outside concrete | | | | Environmental Review report (v. 2012Oct) of Express Rail Link |
| Batching Plant - | batching plant - | | | | VEP (Appendix C1). |
| Phase 2 | , , , , | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| (Construction Site) | Toward CBP | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | | Average truck weight, W | 38 | tons | Aggregate Tipper Truck (Laden) |
| | | | 44 | tons | Concrete Mixer Truck (Upladon) |
| | | TSP emission factor F | 13 | 10115 | E=k x (sL)^0.91x (W)^1.02 (AP-42 section 13.2.1 01/11 ed.) |
| | | | 1267 | g/VKT | Aggregate Tpper Truck |
| | | | 1471 | g/VKT | Cement Tanker |
| | | | 424 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | Source ID: | % of aust suppression | 100.0 | 70 | Sum of emission rate of addregate tinner truck, compart tanker and |
| | | CONT OF LINESION INDE | | | concrete mixer. |
| | AEP 10 | | | a/m2/s (miticated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 0.00E+00 | giners (mingaleu) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | AEP 15 | | 0.00E+00 | g/m2/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer are 10, 0, and 10 ven/nr respectively. |
| West Kowloon | Unloading aggregate | Consumption Rate | 210000 | kg/h | All calculations and assumptions are extracted from |
| Terminus Concrete | Source ID: PEP9- | | 210 | Mg/h | Environmental Review report (v. 2012Oct) of Express Rail Link |
| Batching Plant - | PEP10 | Particle size multiplier, k | 0.74 | | For TSP, AP-42, section 13.2.4, 11/06 ed. |
| Phase 2 (Unloading | | Maistura contant M | ~ | 0/ | All calculations and assumptions are extracted from |
| or raw materials) | | moisture content, M | 2 | /0 | VEP (Appendix C1) |
| | | Mean wind speed, U | 3.5 | m/s | PATH year 2010 mean wind speed |
| | | Emission Easter E | 0.000105100 | ka/Ma | E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4) |
| | | Emission racior, E | 0.002165163 | r.y/ wy | (AP-42, section 13.2.4, 11/06 ed.) |
| | | | 0.454684312 | kg/hr | |
| | | Mitigation officiency | 50 | 0/ | All calculations and assumptions are extracted from |
| | | willigation efficiency | 50 | 70 | VFP (Appendix C1). |
| | | Emission height | 5.5 | m | P 7 of 91 |

| Description | Sources | Parameter | | Emission Rate | Remarks |
|--|--|----------------------------------|-----------------|----------------------|--|
| | | Emission Rate | 6.32E-02 | g/s (mitigated) | |
| West Kowloon Terminus Concrete Batching Plant - Phase 2 (Cement / PFA Silos) | Cement Silos Source ID: PEP 1 to PEP 7 | Emission height Emission Rate | 5.5 1.48E-02 | m g/s (mitigated) | All calculations and assumptions are extracted from Environmental Review report (v. 2012Oct) of Express Rail Link |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Mixer & Weight Hopper Source ID: PEP8 | Emission height Emission Rate | 5.5 1.98E-02 | m g/s (mitigated) | All calculations and assumptions are extracted from Environmental Review report (v. 2012Oct) of Express Rail Link VEP (Appendix C1). |
| West Kowloon High | way Scheme HIJ | | | | |
| West Kowloon Highway Scheme HIJ | Heavy construction Source ID: AA9-12 | | 2.99368E-05 | g/m²/s (mitigated) | Extract from PER report of Scheme HIJ and Junction JRD/FST/CRD (Appendix 3.1), assume 100% active area |
| | Wind Erosion Source ID: AA9-12 | | 2.69533E-06 | g/m²/s | Extract from PER report of Scheme HIJ and Junction JRD/FST/CRD (Appendix 3.1), assume 100% active area |
| West Kowloon Highway Scheme Q (Interim) | Heavy construction Source ID: FF1-FF9 | - | 2.99368E-05 | g/m²/s (mitigated) | Extract from PER report of Scheme Q (Appendix 3.2), assume 100% active area |
| | Wind Erosion Source ID: FF1-FF9 | | 2.69533E-06 | g/m²/s | Extract from PER report of Scheme Q (Appendix 3.2), assume 100% active area |

| Works Area | Sources | | Parameter | | Remarks |
|---------------------|-----------------------|----------------------------------|-------------|-----------------------------------|--|
| West Kowloon | Heavy construction | Percentage active area, p | 100 | % | Assume 100% works area for heavy construction |
| Cultural District | Source ID: E1-E61. | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | EB1-EB5 | No, of working days per month, d | 26 | davs | |
| | - | No, of working hours per day, h | 12 | hour | |
| | | Emission Factor | 2.69 | Ma/hectare/month of activity | AP42. Section 13.2.3.3 |
| | | Emission Bate | 0.000239494 | g/m ² /s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.9878E-05 | g/m²/s (mitigated) | |
| | | | | 3 | |
| | Wind Erosion | Percentage active area, p | 100 | % | |
| | Source ID: E1-E61 | Emission Factor | 0.85 | Mg/hectare/year | AP42 Table 11 9-4 |
| | EB1-EB5 | Emission Rate | 2.69533E-06 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 |
| | - | | | 3 | · · · · · · · · · · · · · · · · · · · |
| West Kowloon | Haul road to barging | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Cultural District | points | Road surface silt loading, sL | 8.2 | g/m2 | Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1- |
| Barging Point | | | | - | 3, 01/11 ed. |
| (Construction Site) | | | | | Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of |
| | | | | | sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page |
| | | | | | 10 of Improved Activity Levels for National Emission Inventories of |
| | | | | | Fugitive Dust from Paved and Unpaved Roads. |
| | | Average truck weight W | 16 | tons | Average weigh of the vehicles traveling the road, extracted from |
| | | Average truck weight, w | 10 | 10113 | SP License |
| | | TSP emission factor, E | 370.7 | g/VKT | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | No. of truck trips per day | | | Extracted from SP License of Express Rail Link (Appendix C) |
| | | | 900 | veh/day | For road HR7A-C |
| | | | 1800 | veh/day | For road HR8A-B |
| | | | 1440 | veh/day | For road HR9 |
| | | | 1080 | veh/day | For road HR10A-C |
| | | | 720 | veh/day | For road HR11 |
| | | | 360 | ven/day | For road HK12A |
| | | No. of operation hour | 12 | hr | From /:00 to 19:00, extracted from SP License of Express Rail |
| | | | | ~ | LINK (Appendix C) |
| | 0 | % of dust suppression | 97.5 | % | Extracted from SP License of Express Rail Link (Appendix C) |
| | Source ID: | Emission Rate | | | No. of two loss days and the second sec |
| | HR7A3, HR7B, | | 4.75E-14 | g/m/s (mitigated) | No. of truck per day: 900, extracted from SP License of Express |
| | HR/C1 | | | о (о) | Hall Link (Appendix C) |
| | HR8A-B | | 9.49E-14 | g/m/s (mitigated) | No. of truck per day: 1800, extracted from SP License of Express |
| | | | | 3 (| Rail Link (Appendix C) |
| | HR9 | | 7.59E-14 | g/m/s (mitigated) | No. of truck per day: 1440, extracted from SP License of Express |
| | | | | 3 | Rail Link (Appendix C) |
| | HR10A-C | | 5.70E-14 | g/m/s (mitigated) | No. of truck per day: 1080, extracted from SP License of Express |
| | | | | 5 (5 <i>)</i> | Rail Link (Appendix C) |
| | нкп | | 3.80E-14 | g/m/s (mitigated) | No. of truck per day: 720, extracted from SP License of Express |
| | | | | 5 (5 <i>)</i> | Rail Link (Appendix C) |
| | HRIZA | | 1.90E-14 | g/m/s (mitigated) | No. of truck per day: 360, extracted from SP License of Express |
| | | | | 5 (5 <i>)</i> | Rail Link (Appendix C) |
| West Kewleen | I lalaadiaa of oacilo | | 4.075.00 | a (a (mitia at a d) | Extract from EIA report of Express Pail Link (Appendix 12.1 |
| West Kowloon | Unloading of spoils | | 4.27E-03 | g/s (mitigated) | Extract from EIA report of Express Rall Link (Appendix 12.1 |
| Cultural District | to barge | | | | p.3) , assume 12 hours of operation |
| Barging Point | Source ID: BP4-7 | | | | |
| | | | | | |
| West Kenderen | David Is and us a d | | | | All colouisticne and economiticne are extracted from CD |
| West Kowloon | Paved naul road | | | | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | Destinia size multiplier k | 0.00 | ~ 0.///T | AD 40 Section 10.0.1 Table 10.0.1.1.01/11 ed |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | g/vK1 | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Plant (Construction | Earl adap Vahiala | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| Site) | I OI LAUEII VEIIICIE | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | TOD emission (extend | 30.8 | tons | Full loading of Concrete Mixer |
| | | I SP emission factor, E | | | E=K X (SL)^0.91X (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 1199 | g/VKT | Aggregate Tpper Truck |
| | | | 1505 | g/VKT | Cement Tanker |
| | | | 1022 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of addregate tinner truck, cement tanker and |
| | | | | | concrete mixer. |
| | | | | | |
| | | | 1.63E-04 | g/m/s (mitigated) | concrete mixer are 12, 2, and 6 yeb/br recreatively |
| | ED12 | | | 1 | No. of vobiolo of aggregate tipper truck accept tenter and |
| | | | 1.42E-04 | g/m/s (mitigated) | concrete mixer are 12.0, and 6 vob/br respectively |
| | EP13 | | | | No. of vehicle of aggregate tipper truck compart tanker and |
| | L1 10 | | 6.35E-05 | g/m/s (mitigated) | concrete mixer are 0, 2, and 6 veh/hr respectively |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | | | 1 | License of Express Rail Link (Annendix C) |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Plant (Construction | 31 | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| Site) | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | | 30.8 | tons | Full loading of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 1199 | g/VKT | Aggregate Tpper Truck |
| | | | 1505 | g/VKT | Cement Tanker |
| | | | 1022 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP14 | | 8 36E-06 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 0.30E-06 | grines (milligaleu) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP15 | | | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 4.00E-05 | gining (milligated) | concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP16 | | | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.702-03 | g | concrete mixer are 0, 0, and 6 veh/hr respectively. |
| | EP17 | | 8.52E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | I | 5.5EE 00 | J (| concrete mixer are 0, 0, and 3 veh/hr respectively. |

| Works Area | Sources | | Parameter | | Romarks |
|----------------------|----------------------|------------------------------------|-------------|-------------------|---|
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Plant (Construction | 01 | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| Site) | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Tpper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | 2 hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP18 | | 6 12E-05 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 0.122 00 | g/m/s (miligaled) | concrete mixer are 12, 2, and 6 veh/hr respectively. |
| | EP19 | | 5.44E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | EP20 | | | | concrete mixer are 12, 0, and 6 veh/hr respectively. |
| | EF20 | | 2.31E-05 | g/m/s (mitigated) | concrete mixer are 0. 2 and 6 veh/br respectively |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Cultural District | within concrete | | | | License of Express Rail Link (Appendix C). |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Plant (Construction | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| Site) | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Tpper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP21 | | 2 725 06 | a/m/a (mitigatad) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 2.730-00 | g/m/s (miligaled) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP22 | | 1.52E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | FROM | | | g | concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP23 | | 3.26E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| West Kowloon | Unloading aggregate | Consumption Bate | 272000 | kg/b | concrete mixer are 0, 0, and 3 ven/minespectively. |
| Cultural District | Source ID: EP9- | Consumption nate | 272000 | Ma/b | Extracted from SP License of Express Rail Link (Appendix C). |
| Concrete Batching | EP10 | Particle size multiplier, k | 0.74 | ing/ii | For TSP AP-12 section 13.2.4 11/06 ed |
| Plant (Unloading of | | r ande size multiplier, k | 0.74 | r | Extracted from Specified Processes License (checked on 13 Jan |
| raw materials) | | Moisture content, M | 2 | 2 % | 2012) |
| | | Mean wind speed, U | 3.5 | m/s | PATH year 2010 mean wind speed |
| | | Entering Eastern E | 0.000405400 | 1 | E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4) |
| | | Emission Factor, E | 0.002165163 | kg/ivig | (AP-42, section 13.2.4, 11/06 ed.) |
| | | | 0.588924442 | kg/hr | |
| | | Mitigation efficiency | 90 | % | Extracted from Specified Processes License (checked on 13 Jan |
| | | initigation enterency | | | 2012) |
| | | Emission Rate | 1.64E-03 | g/s (mitigated) | |
| West Kowloon | Small Cementitious | Dust extraction flow rate for each | 30 | mg/m3 | All calculations and assumptions are extracted from SP |
| Concrete Batching | Source ID: EP5-EP8 | mixer | 1300 | m3/hr | License of Express Rail Link (Appendix C). |
| Plant (Cement / PFA | Gource ID. EI S-EI G | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Silos) | | | | | |
| , | | No. of small cement silos | 4 | | |
| | | Emission height | 21 or 22 | 2 | EP5: 21m, EP6-EP8: 22m |
| | | Emission Rate | 1.08E-02 | g/s (mitigated) | |
| | PFA weight Hopper | Production rate | 160 | m3/hr | All calculations and assumptions are extracted from SP |
| | Source ID: EP3-EP4 | Density | 0.001989 | mg/m3 | License of Express Rail Link (Appendix C). |
| | | Emission Factor | 2 60E-03 | ka/Ma | Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, |
| | | | 2.002 00 | | 6/06 ed. |
| | | Emission Rate | 2.30E-04 | g/s (mitigated) | |
| West Kowloon | Mixer Source ID: | ISP emission factor | 40 | mg/m3 | All calculations and assumptions are extracted from SP |
| Cultural District | EP1-EP2 | Dust extraction flow rate for each | 1500 | m3/hr | License of Express Rail Link (Appendix C). |
| Plant (Miving Towar) | | No. of operation bour | 40 | br | From 7:00 to 19:00 |
| i ant (wixing 10wer) | | No. of small cement silos | 2 | | Extracted from Specified Processes License (checked on 13 Jan |
| | | Emission height | 13 | 3 | 2012) |
| | | Emission Rate | 1.67E-02 | g/s (mitigated) | |

| Description | Sources | Parameter | | Emission Rate | Remarks |
|---|--|-----------|-------------|--------------------|---|
| West Kowloon Highway Scheme HIJ | Heavy construction Source ID: AA9-12 | | 2.99368E-05 | g/m²/s (mitigated) | Extract from PER report of Scheme HIJ and Junction JRD/FST/CRD (Appendix 3.1), assume 100% active area |
| | Wind Erosion Source ID: AA9-12 | | 2.69533E-06 | g/m²/s | Extract from PER report of Scheme HIJ and Junction JRD/FST/CRD (Appendix 3.1), assume 100% active area |
| West Kowloon Highway Scheme Q (Interim) | Heavy construction Source ID: FF1-FF9 | - | 2.99368E-05 | g/m²/s (mitigated) | Extract from PER report of Scheme Q (Appendix 3.2), assume 100% active area |
| | Wind Erosion Source ID: FF1-FF9 | | 2.69533E-06 | g/m²/s | Extract from PER report of Scheme Q (Appendix 3.2), assume 100% active area |

| Works Area | Sources | | Parameter | | Remarks |
|----------------------|-----------------------|---------------------------------|-------------|-----------------------------------|---|
| West Kowloon | Heavy construction | Percentage active area in | 100 | % | Assume 100% works area for heavy construction |
| Cultural District | Source ID: E1-E36 | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| Outtailar District | EB1-EB5 | No. of working days per month d | 26 | davs | Water suppression 12 times a day |
| | 101100 | No, of working hours per day, h | 12 | bour | |
| | | Emission Eactor | 2 69 | Mg/hectare/month of activity | AP42 Section 13 2 3 3 |
| | | Emission Pato | 0.000220404 | a/m ² /c (unmitigated) | -2 60*1000000//10000*d*b*60*60)*p/100 |
| | | Linission nate | 1 9878F-05 | g/m//s (uninitigated) | |
| | | | 1.50702-05 | g/m/3 (mugated) | |
| | Wind Fracion | Porcontago activo area, p | 100 | 0/ | |
| | | Fercentage active area, p | 100 | 70 | AD40 Table 11.0.4 |
| | 5001CE ID. F1-F30, | Emission Pacion | 0.00 | a/m ² /o | AF42, Table TT.9-4 |
| | FBI-FB3 | Emission Rate | 2.09533E-00 | g/m²/s | =0.85 1000000/(10000 365 24 60 60) p/100 |
| West Kewless | Lioui vood to boveine | Dertiele eize multiplier k | 0.00 | ~ \///T | AD 40 Contine 10.0.1 Table 10.0.1.1.01/11 ad |
| West Kowloon | Haul road to barging | Particle Size multiplier, k | 3.23 | g/VK1 | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Cultural District | points | Road surface sint loading, SL | 0.2 | g/m2 | 2 01/11 od |
| (Construction Site) | | | | | 5, 01/11 eu. |
| (Construction Site) | | | | | cand and native soil to 11.0.2 8g/m2 for native soil alone. Page |
| | | | | | 10 of Improved Activity Lovels for National Emission Inventorios of |
| | | | | | Fugitive Dust from Paved and Uppaved Roads |
| | | | | | Average weigh of the vehicles traveling the read, extracted from |
| | | Average truck weight, W | 16 | tons | Average weigh of the vehicles traveling the road, extracted from |
| | | TCD emission feator E | 070 7 | ~0///T | |
| | | I SP emission factor, E | 370.7 | g/vki | E=K X (SL)^0.91X (W)^1.02 (AP-42, Section 13.2.1, 01/11 ed.) |
| | | No. of truck trips per day | | 1.41 | Extracted from SP License of Express Rall Link (Appendix C) |
| | | | 900 | ven/day | For road HR/A-C |
| | | | 1800 | ven/day | For road HR8A-B |
| | | | 1440 | ven/day | For road HR9 |
| | | | 1080 | ven/day | For road HR10A-C |
| | | | 720 | ven/day | For road HRTT |
| | | | 360 | ven/day | For road HR12A |
| | | No. of operation hour | 12 | hr | From 7:00 to 19:00, extracted from SP License of Express Rail |
| | | | | | Link (Appendix C) |
| | | % of dust suppression | 97.5 | % | Extracted from SP License of Express Rail Link (Appendix C) |
| | Source ID: | Emission Rate | | | |
| | HR7A-C | | 4.75E-14 | g/m/s (mitigated) | No. of truck per day: 900, extracted from SP License of Express |
| | | | | g | Rail Link (Appendix C) |
| | HR8A-B | | 9 49F-14 | a/m/s (mitigated) | No. of truck per day: 1800, extracted from SP License of Express |
| | | | 0.402 14 | ginis (magacod) | Rail Link (Appendix C) |
| | HR9 | | 7 59E-14 | a/m/s (mitigated) | No. of truck per day: 1440, extracted from SP License of Express |
| | | | 1.556-14 | g/m/s (miligated) | Rail Link (Appendix C) |
| | HR10A-C | | 5 70E 14 | a/m/c (mitigated) | No. of truck per day: 1080, extracted from SP License of Express |
| | | | 5.70E-14 | g/m/s (miligaled) | Rail Link (Appendix C) |
| | HR11 | | 0.005 14 | r (m (n (mitinated)) | No. of truck per day: 720, extracted from SP License of Express |
| | | | 3.80E-14 | g/m/s (miligaled) | Rail Link (Appendix C) |
| | HR12A | | 1.005 14 | er/mar/ar (mitimatad) | No. of truck per day: 360, extracted from SP License of Express |
| | | | 1.90E-14 | g/m/s (mitigated) | Rail Link (Appendix C) |
| | | | | | |
| West Kowloon | Unloading of spoils | | 4.27E-03 | g/s (mitigated) | Extract from SP License of Express Rail Link (Appendix C), |
| Cultural District | to barge | | | | assume 12 hours of operation |
| Barging Point | Source ID: BP4-7 | | | | |
| | | | | | |
| | | | | | |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Terminus Concrete | batching plant - | Particle size multiplier k | 3 23 | a/VKT | AP-42 Section 13.2.1 Table 13.2.1-1 01/11 ed |
| Batching Plant | | Road surface silt loading sl | 12 | g/m2 | AP-12 Section 13.2.1 Table 13.2.1-3 01/11 ed |
| (Construction Site) | For Laden Vehicle | Average truck weight W | 12 | tana | Full loading of Aggrogate Tipper Truck |
| (0011011001011 0110) | i di Ladoni tomolo | Average truck weight, w | 30 | tons | Full loading of Aggregate Tipper Truck |
| | | | 40 | tons | Full loading of Cement Taliker |
| | | No. of two letting you dow | 30.0 | ions | |
| | | No. of truck trips per day | 12 | ven/nr | Aggregate ipper iruck |
| | | | 2 | veh/hr | Cement Tanker |
| | | | 6 | veh/hr | Concrete Mixer |
| I | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| I | | | | 1 | concrete mixer. |
| | EP11 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.63E-04 | g/m/s (mitigated) | concrete mixer are 12, 2, and 6 veh/hr respectively. |
| I | EP12 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| I | | | 1.42E-04 | g/m/s (mitigated) | concrete mixer are 12, 0, and 6 veh/hr respectively. |
| I | EP13 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | - | | 6.35E-05 | g/m/s (mitigated) | concrete mixer are 0, 2, and 6 veh/hr respectively. |
| West Kowloon | Paved haul road | 1 | | 1 | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | | | 1 | License of Express Rail Link (Appendix C). |
| Terminus Concrete | batching plant - | Particle size multiplier. k | 3,23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1. 01/11 ed. |
| Batching Plant | | Road surface silt loading. sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| (Construction Site) | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck |
| (| | <u> </u> | 45 | tons | Full loading of Cement Tanker |
| I | | | 30.8 | tons | Full loading of Concrete Mixer |
| I | | TSP emission factor, E | 22.0 | 1 | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1. 01/11 ed.) |
| I | | , | 1199 | g/VKT | Aggregate Tpper Truck |
| | | | 1505 | g/VKT | Cement Tanker |
| 1 | | | 1022 | g/VKT | Concrete Mixer |
| 1 | | No. of operation hour | 12 | ĥr | From 7:00-19:00 |
| 1 | | % of dust suppression | 99.0 | % | |
| | Source ID. | Sum of Emission Bate | 55.0 | <u> </u> | Sum of emission rate of addregate tipper truck, cement tanker and |
| 1 | | | | 1 | concrete mixer. |
| 1 | FP14 | | | 1 | No. of vehicle of aggregate tipper truck, cement tanker and |
| 1 | | | 8.36E-06 | g/m/s (mitigated) | concrete mixer are 0.2 and 0 veh/hr respectively |
| 1 | EP15 | | | 1 | No. of vehicle of aggregate tipper truck compart tankor and |
| 1 | | | 4.00E-05 | g/m/s (mitigated) | concrete mixer are 12.0, and 0 veh/br respectively |
| | EP16 | | | | No. of vehicle of aggregate tipper truck compart tankor and |
| 1 | | | 1.70E-05 | g/m/s (mitigated) | concrete mixer are 0. 0, and 6 veh/hr respectively |
| I | FP17 | | | 1 | No. of vehicle of aggregate tipper truck, compart tanker and |
| I | - ''' | | 8.52E-06 | g/m/s (mitigated) | concrete mixer are 0.0, and 3 veh/br respectively |
| 1 | I | 1 | | I | consists mixer are o, o, and o venimi respectively. |

| Works Area | Sources | | Parameter | | Bemarks |
|----------------------|---------------------|------------------------------------|-------------|--------------------|---|
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | | | | License of Express Bail Link (Appendix C). |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Plant (Construction | batoning plant | Boad surface silt loading sl | 12 | g/m2 | AP-42 Section 13.2.1 Table 13.2.1-3.01/11 ed |
| Site) | For Unladen Vehicle | Average truck weight W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| , | | Average track weight, w | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor. F | | | $E_k \times (s) \ 100 \ 91 \times (W)^{1} \ 02 \ (AP-42) \ section \ 13 \ 2 \ 1 \ 01/11 \ sd$ |
| | | | 457 | a MKT | Aggregate Topor Truck |
| | | | 401 | | Aggregate Tpper Truck |
| | | | 491 | | |
| | | | 391 | g/vk i | |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP18 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | - | | 6.12E-05 | g/m/s (mitigated) | concrete mixer are 12, 2, and 6 veh/hr respectively. |
| | EP19 | | 5 4 4 F 0 F | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | - | | 5.44E-05 | g/m/s (mitigated) | concrete mixer are 12. 0. and 6 veh/hr respectively. |
| | EP20 | | 0.045.05 | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 2.31E-05 | g/m/s (mitigated) | concrete mixer are 0, 2, and 6 veh/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Cultural District | within concrete | | | | License of Express Rail Link (Appendix C). |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Plant (Construction | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| Site) | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | 5 5 4 | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | a/VKT | Aggregate Toper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 301 | g//KT | Concrete Mixer |
| | | No. of an analysis have | 001 | | |
| | | No. of operation hour | 12 | | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP21 | | 0.705.00 | a (m/a (mitiaatad) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 2.73E-06 | g/m/s (mitigated) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP22 | | 1 525 05 | a/m/a (mitiaatad) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.52E-00 | g/m/s (miligaled) | concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP23 | | 2 26E 06 | a/m/c (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 3.20E-00 | g/m/s (mitigated) | concrete mixer are 0, 0, and 3 veh/hr respectively. |
| West Kowloon | Unloading aggregate | Consumption Rate | 272000 | kg/h | Extracted from SP License of Express Bail Link (Appendix C) |
| Cultural District | Source ID: EP9- | | 272 | Mg/h | |
| Concrete Batching | EP10 | Particle size multiplier, k | 0.74 | | For TSP, AP-42, section 13.2.4, 11/06 ed. |
| Plant (Unloading of | | Moisture content, M | 2 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| raw materials) | | Mean wind speed, U | 3.5 | m/s | PATH Year 2010 mean wind speed |
| | | Emission Easter E | 0.000105100 | les (Ma | E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4) |
| | | Emission Factor, E | 0.002165163 | kg/lvig | (AP-42, section 13.2.4, 11/06 ed.) |
| | | | 0.588924442 | kg/hr | |
| | | Mitigation efficiency | 99 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| | | Emission Rate | 1.64E-03 | g/s (mitigated) | |
| West Kowloon | Small Cementitious | TSP emission factor | 30 | mg/m3 | All calculations and assumptions are extracted from SP |
| Cultural District | Material Silos | Dust extraction flow rate for each | 1200 | m2/br | Liconso of Express Pail Link (Appendix C) |
| Concrete Batching | Source ID: EP5-EP8 | mixer | 1000 | 110/11 | License of Express han Link (Appendix O). |
| Plant (Cement / PFA | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Silos) | | No. of small cement silos | 4 | | |
| | | | | | |
| | | Emission height | 21 or 22 | | EP5: 21m, EP6-EP8: 22m |
| | | Emission Rate | 1.08E-02 | g/s (mitigated) | ļ |
| | PFA weight Hopper | Production rate | 160 | m3/hr | All calculations and assumptions are extracted from SP |
| | Source ID: EP3-EP4 | Density | 0.001989 | mg/m3 | License of Express Rail Link (Appendix C). |
| | | Emission Factor | 2 60E 02 | ka/Ma | Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, |
| | | | 2.000-03 | Ng/mg | 6/06 ed. |
| | | Emission Rate | 2.30E-04 | g/s (mitigated) | |
| West Kowloon | Mixer Source ID: | TSP emission factor | 40 | mg/m3 | All calculations and assumptions are extracted from SP |
| Cultural District | EP1-EP2 | Dust extraction flow rate for each | 1500 | m3/hr | License of Express Rail Link (Appendix C). |
| Concrete Batching | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Plant (Mixing Tower) | | INU. OF SMAIL CEMENT SILOS | 2 | | |
| | | Emission Bate | 1.67E-02 | g/s (mitigated) | |
| | | 1= | | 1.5/ - (| |

| Works Area | Sources | T | Parameter | | Remarks | | |
|---------------------|----------------------|----------------------------------|-------------|-----------------------------------|--|--|--|
| West Kowloon | Heavy construction | Percentage active area, p | 100 | % | Assume 100% works area for heavy construction | | |
| Cultural District | Source ID: H1-H45, | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day | | |
| | HB1-HB5 | No. of working days per month, d | 26 | days | | | |
| | | No. of working hours per day, h | 12 | hour | | | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 | | |
| | | Emission Rate | 0.000239494 | g/m ² /s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 | | |
| | | | 1.9878E-05 | g/m²/s (mitigated) | | | |
| | Wind Erosion | Percentage active area, p | 100 | % | | | |
| | Source ID: H1-H45, | Emission Factor | 0.85 | Mg/hectare/year | AP42, Table 11.9-4 | | |
| | HB1-HB5 | Emission Rate | 2.69533E-06 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 | | |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP | | |
| Cultural District | outside concrete | | | | License of Express Rail Link (Appendix C). | | |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. | | |
| Plant (Construction | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. | | |
| Site) | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck | | |
| | | | 45 | tons | Full loading of Cement Tanker | | |
| | | | 30.8 | tons | Full loading of Concrete Mixer | | |
| | | No. of truck trips per day | 12 | veh/hr | Aggregate Tpper Truck | | |
| | | | 2 | veh/hr | Cement Tanker | | |
| | | | 6 | veh/hr | Concrete Mixer | | |
| | | No. of operation bour | 10 | br | From 7:00 19:00 | | |
| | | | 07.5 | | F10117.00-19.00 | | |
| | Course ID: | % of dust suppression | 97.5 | % | Cum of aminging years of any sector tiggers to used, as most tagling and | | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and | | |
| | | | | | concrete mixer. | | |
| | | | 1.63E-04 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and | | |
| West Kowlean | Poved houl read | + | - | | All extended and examinations are extracted from SP | | |
| Torminus Concrete | outsido concreto | | | | Liconso of Exprose Pail Link (Appondix C) | | |
| Ratching Plant | batching plant | Particlo sizo multiplior k | 2.22 | ankt | AP 42 Section 12.2.1 Table 12.2.1.1.01/11 od | | |
| Datching Flant | batching plant - | Pood surface silt loading sl | 10 | g/wR1 | AP 42, Section 13.2.1, Table 13.2.1.7, 01/11 ed. | | |
| | For Laden Vehicle | Average truck weight W | 36 | tons | Full loading of Aggregate Tipper Truck | | |
| | I OI LAGEII VEIIICIE | Average truck weight, w | 45 | tons | Full loading of Cement Tanker | | |
| | | | 30.8 | tons | Full loading of Concrete Mixer | | |
| | | TSP emission factor E | 00.0 | | $E_{k} \times (sl)^{0} \Omega_{1} \times (W)^{1} \Omega_{2} (\Delta P_{1} 2 section 13.2.1, 0.1/11 sd)$ | | |
| | | | 1199 | a/VKT | Aggregate Toper Truck | | |
| | | | 1505 | g/VKT | Coment Tanker | | |
| | | | 1022 | g/VKT | Concrete Mixer | | |
| | | No. of truck trips per day | 1022 | yeh/hr | Aggregate Toper Truck | | |
| | | no. of adok apo per day | 2 | veh/hr | Cement Tanker | | |
| | | | - | veh/hr | Concrete Mixer | | |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 | | |
| | | % of dust suppression | 99.0 | % | | | |
| | | Emission Bate | 0.00E+00 | g/m/s (mitigated) | Aggregate Tipper Truck | | |
| | | | 8.36E-06 | g/m/s (mitigated) | Cement Tanker | | |
| | | | 0.00E+00 | g/m/s (mitigated) | Concrete Mixer | | |
| | Source ID: | Sum of Emission Rate | 0.002100 | g, | Sum of emission rate of aggregate tipper truck, cement tanker and | | |
| | | | 1 | | concrete mixer. | | |
| | EP14 | | 8.36E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0. 2. and 0 veh/hr respectively. | | |
| | EP15 | | | | No. of vehicle of aggregate tipper truck, cement tanker and | | |
| | - | | 4.00E-05 | g/m/s (mitigated) | concrete mixer are 12. 0. and 0 veh/hr respectively | | |
| | EP16 | | | | No. of vehicle of aggregate tipper truck, cement tanker and | | |
| | | | 1.70E-05 | g/m/s (mitigated) | concrete mixer are 0, 0, and 6 veh/hr respectively. | | |
| | EP17 | | 8.52E-06 | g/m/s (mitigated) | No. of venicle of aggregate tipper truck, cement tanker and concrete mixer are 0. 0, and 3 veh/hr respectively. | | |

| Works Area | Sources | | Parameter | | Bemarks |
|----------------------|---------------------|------------------------------------|-------------|-------------------|--|
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Plant (Construction | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| Site) | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | TOD emission factor F | 12 | tons | Unladen weight of Concrete Mixer |
| | | I SP emission factor, E | 453 | - 0.4/7 | E=K X (SL)^0.91X (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | | Aggregate Tpper Truck |
| | | | 491 | | Centent Tanker |
| | | No. of operation hour | 10 | g/vK1 | Erom 7:00 10:00 |
| | | % of dust suppression | 07.5 | 0/ | FI0117.00-19.00 |
| | Source ID: | Sum of Emission Bate | 57.5 | /0 | Cum of emission rate of engranded times twelve compart tention and |
| | | | | | concrete mixer |
| | | | | | No. of vehicle of aggregate tipper truck, compart tanker and |
| | CBAT-CBA4 | | 6.12E-05 | g/m/s (mitigated) | concrete mixer are 12, 2, and 6 veh/hr respectively |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | within concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | TSB omission factor E | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSF emission factor, E | 457 | | E=K X (SL)*0.91X (W)*1.02 (AF-42, Section 13.2.1, 01/11 ed.) |
| | | | 437 | | Compet Tanker |
| | | | 491 | | Concrete Mixer |
| | | | 551 | 9/ 11 | Extracted from Specified Processes License (checked on 13 Jan |
| | | No. of truck trips per day | | | 2012) |
| | | | C | veh/hr | Aggregate Toper Truck |
| | | | 2 | veh/hr | Cement Tanker |
| | | | C | veh/hr | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | | Emission Rate | 0.00E+00 | g/m/s (mitigated) | Aggregate Tipper Truck |
| | | | 2.73E-06 | g/m/s (mitigated) | Cement Tanker |
| | | | 0.00E+00 | g/m/s (mitigated) | Concrete Mixer |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. |
| | EP21 | | 2.73E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0. 2, and 0 veh/hr respectively. |
| | EP22 | | 1.52E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP23 | | 3.26E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 3 veh/hr respectively. |
| West Kowloon | Unloading aggregate | Consumption Rate | 272000 | kg/h | Extracted from SP License of Express Pail Link (Appendix C) |
| Cultural District | Source ID: EP9 | | 272 | Mg/h | Extracted nom of Eldense of Express than Ellik (Appendix O). |
| Concrete Batching | | Particle size multiplier, k | 0.74 | | For TSP, AP-42, section 13.2.4, 11/06 ed. |
| raw materials) | | Moisture content, M | 2 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| raw materials) | | Mean wind speed, U | 3.5 | m/s | PATH Year 2010 mean wind speed |
| | | Emission Factor, E | 0.002165163 | kg/Mg | $E=K \times (0.0016) \times ((U/2.2)^{1.3}/(M/2)^{1.4})$ |
| | | | 0 599024442 | ka/br | (AF-42, Section 13.2.4, 11/06 ed.) |
| | | Mitigation efficiency | 0.300924442 | % | Extracted from SP License of Express Bail Link (Appendix C) |
| | | Emission Rate | 1.64E-03 | g/s (mitigated) | |
| West Kowloon | Small Cementitious | TSP emission factor | 30 | mg/m3 | All calculations and assumptions are extracted from SP |
| Cultural District | Material Silos | Dust extraction flow rate for each | 1300 | m3/br | License of Express Bail Link (Appendix C) |
| Concrete Batching | Source ID: EP5-EP8 | mixer | 1000 | 110/11 | |
| Plant (Cement / PFA | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| 51105) | | No. of small cement silos | 4 | | |
| | | Emission height | 21 or 22 | , | EP5: 21m. EP6-EP8: 22m |
| | | Emission Rate | 1.08E-02 | g/s (mitigated) | , _, _, _, _, _, _, _, _, _, _, _, _, _, |
| | PFA weight Hopper | Production rate | 160 | m3/hr | All calculations and assumptions are extracted from SP |
| | Source ID: EP3-EP4 | Density | 0.001989 | mg/m3 | License of Express Rail Link (Appendix C). |
| | | Emission Factor | | ka/Ma | Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, |
| | | | 2.00E-03 | Ng/WIY | 6/06 ed. |
| | | Emission Rate | 2.30E-04 | g/s (mitigated) | |
| West Kowloon | Mixer Source ID: | ISP emission factor | 40 | mg/m3 | All calculations and assumptions are extracted from SP |
| Cultural District | EP1-EP2 | No of operation hour | 1500 | hr | From 7:00 to 19:00 |
| Plant (Mixing Tower) | | No. of small cement silos | 2 | | |
| | | Emission height | 13 | | |
| | | Emission Rate | 1.67E-02 | g/s (mitigated) | |

| Part Floating Part of the second | Works Area | Sources | | Parameter | | Remarks |
|---|---------------------|----------------------|----------------------------------|-------------|------------------------------|--|
| Distuit Dusit Distuit Dusit Disputs fillency manual provide manual provide manu provide manu provide manual provide manu provide manual provide | West Kowloon | Heavy construction | Percentage active area, p | 100 | % | Assume 100% works area for heavy construction |
| Best Bit Work of each organ and the process of the proces of the proces of the process | Cultural District | Source ID: I1-I29, | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| No. of catal of prices are price Split | | IB3-IB5 | No. of working days per month, d | 26 | days | |
| Package status Package | | | No. of working hours per day, h | 12 | hour | |
| Energia has 0.00000000000000000000000000000000000 | | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13,2,3,3 |
| Interface Table 2000 Table 2000 <thtable 2000<="" th=""> Table 2000 Table 200</thtable> | | | Emission Bate | 0 000239494 | $a/m^2/s$ (unmitidated) | -2 69*1000000//10000*d*b*60*60)*p/100 |
| Vice Readsy Reserved Rese | | | LINISSION Nate | 1 0070E 05 | $g/m^2/s$ (uninitigated) | |
| Water France Provinge affects are an general field Diffs Provinge affects are an general field Water Fourier Research and the second s | | | | 1.9070E-03 | g/m-/s (miligaled) | |
| Source Grift III Consider Lock Odd Ipportunity Aver, 11, 44 Aver, 11, 44 Aver, 11, 44 Ward Average And Average Market Part Construction Part Extension of the Average Market Part Construction Average Marktet Part Construction Average Market Part Constr | | Wind Fragion | Dereentage estive eree n | 100 | 9/ | |
| Boold B Excess file 2000000 (appendence of the second appendence | | Source ID: 11 120 | Emission Easter | 100 | /o Ma/bootoro/voor | AP42 Table 11.0.4 |
| August Statutorium Description Description <thdescription< th=""></thdescription<> | | | Emission Rato | 2 60533E-06 | a/m ² /c | -0.85*1000000/(10000*365*24*60*60)*p/100 |
| Weil Bolton Description Weil Bolton Description Weil Bolton Description Machine Description Weil Bolton Description For Under State Description The State Description The State Description The State Description Description For Under State Description The State Description The State Description The State Description Description For Later Veice The State Description The State Description The State Description Description The State Description The State Description The State Description The State Description State Description The State Description The State Description The State Description The State Description State Description The State Description <td></td> <td>103-103</td> <td></td> <td>2.09555E-00</td> <td>g/11-/S</td> <td>=0.05 1000000/(10000 505 24 00 00) p/100</td> | | 103-103 | | 2.09555E-00 | g/11-/S | =0.05 1000000/(10000 505 24 00 00) p/100 |
| Chard Building Schulz Building Building Schulz Building Schulz Building Schulz Building Schulz How Schulz How Schulz How Schulz How Schulz Building Schulz Building Schulz How | West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Concess barrow and Continues Audity parts and continues Parts & derivation is a barrow and continues State for the audity parts Audity parts Audity parts Direct Continues Audity parts Audi | Cultural District | outside concrete | | | | License of Express Bail Link (Appendix C) |
| Per et Sont of the second sec | Concrete Batching | batching plant - | Particle size multiplier k | 3 23 | a/VKT | AP-42 Section 13.2.1 Table 13.2.1-1 01/11 ed |
| Stell Advances Process of the second | Plant (Construction | batoning plant | Pood curfood cilt loading cl | 10 | g/m2 | AP 42 Section 12.2.1, Table 12.2.1.2, 01/11 ed |
| The output back diagonal water data with the output back diagonal back diagona back diagonal back diagonal back diagonal back diagona | Site) | For Laden Vehicle | Average truck weight M | 12 | topo | Full loading of Aggregate Tipper Truck |
| 92 bits Particle Statem Particle Statem Particle Statem Particle Statem 0 detect in the comparison to an Unit of the Statem Statem Particle Statem Particle Statem Particle Statem 0 detect in the comparison to an Unit of the Statem Statem Particle Statem Particle Statem Particle Statem Particle Statem 0 detect in the comparison to an Unit of Statem Statem Particle Statem Particle Statem Particle Statem Particle Statem 0 detect in the comparison to an Unit of Statem Particle Statem< | | T OF Eddorf Volliolo | Average truck weight, w | 30 | tons | Full loading of Aggregate Tipper Truck |
| Model Formation 200 participant Approprint Spectrate Manual Spectra S | | | | 40 | tons | |
| Med Answer Appendix Table Table CHI-CENT Control Tork Control Tork CHI-CENT No. of containing the control Sector Tork CHI-CENT Tork in the control Sector Tork CHI-CENT Sector Tork Sector Tork CHI-CENT Sector Tork Sector Tork Sector Tork Sector Tork Sector Tork TOF Present Tork Sector Tork Sector Tork TOF Present Tork Sector Tork Sector Tork TOF Present Tork Sector Tork Sector Tork Sector Tork Sector Tork Sector Tork Sector Tork Sector Tork Sector Tork Sector Tork Sector Tork Sector Tork Sector Tork Secto | | | No. of two lates are adams | 30.8 | | Full loading of Concrete Mixer |
| Bit of the second sec | | | No. of truck trips per day | 12 | ven/nr | Aggregate ipper iruck |
| But of operation hours but of operation hours but of operation hours but of the second formation of the | | | | 2 | veh/hr | Cement Tanker |
| New of operation hase Surver D: be of operation hase Surver D: be of operation hase Surver D: to do a specific provide surver of the surverse of the | | | | 6 | veh/hr | Concrete Mixer |
| Series ID: Sort of at approaches 97.5 [S. Series ID: Series ID: <t< td=""><td></td><td></td><td>No. of operation hour</td><td>12</td><td>hr</td><td>From 7:00-19:00</td></t<> | | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| Save D. Sure of Entation Table Dir of entation flage Sure of Composition Vest Norwoon Park Hau vool 1.052-05 gints (intigate) All columbo entities and composition flage West Norwoon Park Hau vool All columbo entities and composition flage All columbo entities and composition flage Backing Plan Park Hau vool All columbo entities and composition flage All columbo entities and composition flage Backing Plan Park Hau vool Park Hau vool All columbo entities and composition flage Backing Plan Park Hau vool Park Hau vool Park Hau vool Backing Plan Park Hau vool Park Hau vool Park Hau vool Backing Plan Park Hau vool Park Hau vool Park Hau vool Backing Plan Park Hau vool Park Hau vool Park Hau vool Backing Plan Park Hau vool Park Hau vool Park Hau vool Park Hau vool Backing Plan Park Hau vool < | | | % of dust suppression | 97.5 | % | |
| Operation Constrained (1.05E-02) | | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| CBH 1 CBH 4 1.00 Log print (nitigate) No. of trained programs (p.g. rad, check there are all or all | | | | | | concrete mixer. |
| Microsofte Control Contro Control Control | | CBH1-CBH4 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| West Houlon Ferning Gorden Ferning Ferning Ferning Gorden Ferning | | | | 1.63E-04 | g/m/s (mitigated) | concrete mixer are 12 2 and 6 veh/hr respectively |
| Terminus Concrete Backing Plant Indicise score realizione al producto sel locating al productione and score al productione and scor | West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Baching Piert Desching plant. Particle ster mutching, it. 32.5 g/v/T Advects seetant 32.1, Table 13.2.1, 10.111 ed. For Later Vehicle For Later Vehicle Nonge truth weight, W 30 g/mm Full backing of graphics 12.2.1, 10.111 ed. Status of Buckets Status of Buckets 30.5 g/mm Full backing of Graphics 12.2.1, 10.111 ed. Status of Buckets Status of Buckets 30.5 g/mm Full backing of Graphics 12.2.1, 10.111 ed. Status of Buckets Status of Buckets 30.5 g/mm Full backing of Graphics 12.2.1, 10.111 ed. Status of Buckets Status of Buckets 30.5 g/mm Full backing of Graphics Full backing of Graphics Status of Buckets Status of Buckets 30.5 g/mm Full backing of Graphics Full backing of Graphics Status of Buckets Status of Buckets 30.6 g/mm Full backing of Graphics For Torus Status of Buckets Status of Buckets 30.6 g/mm For Torus Concert Mackets Status of Buckets Status of Buckets 30.6 g/mm For Torus Concert Mackets Status of Buckets Status of Buckets 30.6 g/mm Forut Torus | Terminus Concrete | outside concrete | | | | License of Express Bail Link (Appendix C) |
| Control of of the second sec | Ratching Plant | batching plant - | Particle size multiplier k | 3 23 | a/VKT | AP-42 Section 13.2.1 Table 13.2.1-1.01/11 ed |
| Per Ladon Venice Average track-weight, W Addition The Lading of Appropriate Trage Track Mathematics 13P entestion factor, E 13P entestion factor, E 30.8 Brain Full scaling of Control Mar Full scaling of Control Mar 13P entestion factor, E 13P entestion factor, E 13P entestion factor, E 13P entestion factor, E 13P entestion factor, E 0 enterth 0 enterth 0 enterth 0 enterth 13P entestion factor, E 0 enterth 0 enterth 0 enterth 0 enterth 13P entestion factor, E 0 enterth 0 enterth 0 enterth 0 enterth 13P entestion factor, E 0 enterth 0 enterth 0 enterth 0 enterth 13P entestion factor 0 enterth 0 enterth 0 enterth 0 enterth 13P entestion factor 0 enterth 0 enterth 0 enterth 0 enterth 13P entestion factor 0 enterth 0 enterth 0 enterth 0 enterth 14P entestion factor 0 enterth 0 enterth 0 enterth 0 enterth 14P entestion factor 0 enterth 0 enterth | | Proving province | Boad surface silt loading st | 10 | g/m2 | AP-42. Section 13.2.1. Table 13.2.1-3. 01/11 ed |
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| OBSI-0384 6.12E-05 g/m/s (mitigated) No. 01 venicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 ve/h/r respectively. West Kowloon Terminus Concrete Batching Plant Paved haul road within concrete batching plant - Particle size multiplier, k 3.23 g/VKT AP-42, Section 13.2.1, Table 13.2.1-0, 1/11 ed. For Unladen Vehicle Particle size multiplier, k 3.23 g/WKT AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Average truck weight, W 14 lons Unladen weight of Concrete Mixer Unladen weight of Concrete Mixer TSP emission factor, E 457 g/VKT Cement Tanker Mey VKT Concrete Mixer 20 Veh/hr Aggregate Toper Truck 491 g/VKT Concrete Mixer Veh/hr Aggregate Toper Truck 491 g/VKT No. of truck trips per day 0 Veh/hr Cement Tanker 0 Veh/hr Cement Tanker 2012 0 Veh/hr Cement Tanker 2 | | | | | | |
| West Kowloon Terminus Concrete Batching Plant Paved haul road within concrete batching plant - For Unladen Vehicle Particle size multiplier, k Particle size multiplier, k For Unladen Vehicle 3.23 g/VKT AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. For Unladen Vehicle Particle size multiplier, k Poad surface silt loading, sL Average truck weight, W 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. TSP emission factor, E 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. TSP emission factor, E 12 lons Unladen weight of Aggregate Tipper Truck Mo. of truck trips per day 12 lons Unladen weight of Concrete Mixer No. of operation hour 12 lon g/VKT Cement Tanker No. of operation hour 12 hr Veh/hr Concrete Mixer % of dust suppression 99.0 % 20.00 Aggregate Tipper Truck Concrete Mixer 2.1, 01/11 ed. 2.1, 01/11 ed. 2.1, 01/11 ed. | | CBX1-CBX4 | | 6.12E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
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| No. of operation hour 12 hr From 7:00-19:00 % of dust suppression 99.0 % Aggregate Tipper Truck Emission Rate 0.00E+00 g/m/s (mitigated) Aggregate Tipper Truck 0.00E+00 g/m/s (mitigated) Concrete Mixer | | | | 2 | | |
| No. of operation hour 12 hr From 7:00-19:00 % of dust suppression 99.0 % Aggregate Tipper Truck Emission Rate 0.00E+00 g/m/s (mitigated) Aggregate Tipper Truck 2.73E-06 g/m/s (mitigated) Cement Tanker 0.00E+00 g/m/s (mitigated) Concrete Mixer | | | | 0 | ven/nr | Concrete Mixer |
| % of dust suppression 99.0 % Emission Rate 0.00E+00 g/m/s (mitigated) Aggregate Tipper Truck 2.73E-06 g/m/s (mitigated) Cement Tanker 0.00E+00 g/m/s (mitigated) Concrete Mixer | | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| Emission Rate 0.00E+00 g/m/s (mitigated) Aggregate Tipper Truck 2.73E-06 g/m/s (mitigated) Cement Tanker 0.00E+00 g/m/s (mitigated) Concrete Mixer | | | % of dust suppression | 99.0 | % | |
| 2.73E-06 g/m/s (mitigated) Cement Tanker | | | Emission Rate | 0.00E+00 | g/m/s (mitigated) | Aggregate Tipper Truck |
| 0.00E±00.g/m/s (mitigated) Concrete Mixer | | | | 2.73E-06 | g/m/s (mitigated) | Cement Tanker |
| | | | | 0.00E+00 | g/m/s (mitigated) | Concrete Mixer |

| Works Area | Sources | | Parameter | | Remarks |
|--|---------------------------------------|---|---------------|-------------------|--|
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. |
| | EP21 | | 2.73E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP22 | | 1.52E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP23 | | 3.26E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 3 veh/hr respectively. |
| West Kowloon Cultural District | Unloading aggregate Source ID: EP9 | Consumption Rate | 272000 272 | kg/h Mg/h | Extracted from SP License of Express Rail Link (Appendix C). |
| Concrete Batching | | Particle size multiplier, k | 0.74 | - | For TSP, AP-42, section 13.2.4, 11/06 ed. |
| Plant (Unloading of | | Moisture content, M | 2 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| raw materials) | | Mean wind speed, U | 3.5 | m/s | PATH Year 2010 mean wind speed |
| | | Emission Factor, E | 0.002165163 | kg/Mg | E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4) (AP-42, section 13.2.4, 11/06 ed.) |
| | | | 0.588924442 | kg/hr | |
| | | Mitigation efficiency | 99 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| | | Emission Rate | 1.64E-03 | g/s (mitigated) | |
| West Kowloon | Small Cementitious | TSP emission factor | 30 | mg/m3 | All calculations and assumptions are extracted from SP |
| Cultural District Concrete Batching | Material Silos Source ID: EP5-EP8 | Dust extraction flow rate for each mixer | 1300 | m3/hr | License of Express Rail Link (Appendix C). |
| Plant (Cement / PFA | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Silos) | | No. of small cement silos | 4 | | |
| | | Emission height | 21 or 22 | | EP5: 21m, EP6-EP8: 22m |
| | | Emission Rate | 1.08E-02 | g/s (mitigated) | |
| | PFA weight Hopper | Production rate | 160 | m3/hr | All calculations and assumptions are extracted from SP |
| | Source ID: EP3-EP4 | Density | 0.001989 | mg/m3 | License of Express Rail Link (Appendix C). |
| | | Emission Factor | 2.60E-03 | kg/Mg | Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, 6/06 ed. |
| | | Emission Rate | 2.30E-04 | g/s (mitigated) | |
| West Kowloon | Mixer Source ID: | TSP emission factor | 40 | mg/m3 | All calculations and assumptions are extracted from SP |
| Cultural District | EP1-EP2 | Dust extraction flow rate for each | 1500 | m3/hr | License of Express Rail Link (Appendix C). |
| Concrete Batching | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Plant (Mixing Tower) | | No. of small cement silos | 2 | | |
| | | Emission Reight | 13 | a/s (mitigated) | |

| Works Area | Sources | | Parameter | | Remarks |
|---------------------|----------------------|----------------------------------|-------------|-----------------------------------|---|
| West Kowloon | Heavy construction | Percentage active area, p | 100 | % | Assume 100% works area for heavy construction |
| Cultural District | Source ID: J1-J24, | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | JB3-JB5 | No. of working days per month, d | 26 | days | |
| | | No. of working hours per day, h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 0.000239494 | a/m ² /s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.9878E-05 | g/m²/s (mitigated) | |
| | | | | 3 | |
| | Wind Erosion | Percentage active area, p | 100 | % | |
| | Source ID: J1-J24, | Emission Factor | 0.85 | Mg/hectare/year | AP42, Table 11.9-4 |
| | JB3-JB5 | Emission Rate | 2.69533E-06 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 |
| | | | | | |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Plant (Construction | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| Site) | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | | 30.8 | tons | Full loading of Concrete Mixer |
| | | No. of truck trips per day | 12 | veh/hr | Aggregate Tpper Truck |
| | | | 2 | veh/hr | Cement Tanker |
| | | | 6 | veh/hr | Concrete Mixer |
| | | No. of operation hour | 10 | br | Erom 7:00, 10:00 |
| | | | 12 | | F10111 7.00-19.00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | CBH1-CBH4 | | 1.63E-04 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| West Kewless | Deved here read | | | | concrete mixer are 12, 2, and 6 ven/nr respectively. |
| Terminua Concrete | Paved naul road | | | | License of Express Poil Link (Appendix C) |
| Petching Plant | batching plant | Portiolo oizo multiplior k | 2.02 | a MKT | AB 42 Section 12.2.1 Table 12.2.1.1.01/11 od |
| Datching Flant | batching plant - | Particle Size multiplier, K | 3.23 | g/vK1 | AF-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| | Earladan Vahiala | Average truck weight W | 12 | g/112 | AF-42, Section 13.2.1, Table 13.2.1-3, 01/11 eu. |
| | I OI LAUEII VEIIICIE | Average truck weight, w | 30 | tons | Full loading of Aggregate Tipper Truck |
| | | | 40 | tons | Full loading of Concrete Mixer |
| | | TCD emission feator. F | 30.0 | lons | |
| | | TSF emission factor, E | 1100 | an///T | E=K X (SL)*0.91X (W)*1.02 (AF-42, Section 13.2.1, 01/11 eu.) |
| | | | 1199 | | Aggregate Tpper Truck |
| | | | 1000 | | Concrete Mixer |
| | | No. of truck trips par day | 1022 | yoh/hr | Aggregate Taper Truck |
| | | No. of truck trips per day | 0 | veh/hr | Aggregate Tpper Truck |
| | | | 2 | veh/m | Cenerate Mixer |
| | | No. of operation hour | 10 | ven/m | From 7:00 10:00 |
| | | | 12 | 111 | F10111 7.00-19.00 |
| | | % of dust suppression | 99.0 | 70 s/m/s (mitissted) | |
| | | | 0.00E+00 | g/m/s (mitigated) | Aggregate Tipper Truck |
| | | | 8.30E-00 | g/m/s (mitigated) | Cement Tanker |
| | Course ID: | Sum of Emission Data | 0.00E+00 | g/m/s (miligaled) | Concrete Mixer |
| | Source ID: | Sum of Emission Rate | | | sum of emission rate of aggregate tipper truck, cement tanker and |
| | ED14 | | | | No. of vehicle of aggregate tipper truck, compart tention and |
| | CP14 | | 8.36E-06 | g/m/s (mitigated) | concrete mixer are 0.2, and 0 yet the respectively |
| | ED15 | | | | Concrete mixer are 0, 2, and 0 ven/nr respectively. |
| | EP 15 | | 4.00E-05 | g/m/s (mitigated) | invo. of vehicle of aggregate tipper truck, cement tanker and |
| | ED40 | | | - · · · · | concrete mixer are 12, 0, and 0 ven/nr respectively. |
| | EP 16 | | 1.70E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | 5047 | | | | concrete mixer are 0, 0, and 6 ven/nr respectively. |
| | EP1/ | | 8.52E-06 | g/m/s (mitigated) | No. of venicle of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer are 0, 0, and 3 veh/hr respectively. |

| Works Area | Sources | | Parameter | | Bemarks |
|----------------------|---------------------|------------------------------------|-------------|-------------------|--|
| West Kowloon | Paved haul road | | i uluiletei | | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Plant (Construction | • • | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| Site) | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Tpper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | CBX1-CBX4 | | 6 12E-05 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 0.122-03 | g/m/s (miligated) | concrete mixer are 12, 2, and 6 veh/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | within concrete | Destinte size multiplier k | 0.00 | ~ 0.///T | License of Express Rall Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| | For Unladen Vehicle | Average truck weight W | 14 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | | Average truck weight, w | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor E | 12 | 10113 | $F = k x (sl)^{0.91} x (W)^{1.02} (AP-42 \text{ section } 13.2.1, 01/11 \text{ ed})$ |
| | | | 457 | a//KT | Aggregate Toper Truck |
| | | | 407 | g/VKT | Coment Tanker |
| | | | 201 | g/VKT | Concrete Mixer |
| | | | 551 | 9/ 1/1 | Extracted from Specified Processes License (checked on 12 Jan |
| | | No. of truck trips per day | | | 2012) |
| | | | 0 | veb/br | Aggregate Toper Truck |
| | | | 2 | veh/hr | Coment Tanker |
| | | | 2 | veh/hr | Concrete Mixer |
| | | No. of operation beaut | 10 | ven/m | |
| | | No. of operation nour | 12 | nir oʻ | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | | A survey and a Time on Transla |
| | | Emission Rate | 0.00E+00 | g/m/s (mitigated) | Aggregate Tipper Truck |
| | | | 2.73E-06 | g/m/s (mitigated) | Gement Tanker |
| | | Over of Envirois a Data | 0.00E+00 | g/m/s (mitigated) | Concrete Mixer |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. |
| | EP21 | | 2.73E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP22 | | 1.52E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP23 | | 3.26E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 3 veh/hr respectively. |
| West Kowloon | Unloading aggregate | Consumption Rate | 272000 | kg/h | Extracted from SP License of Express Bail Link (Appendix C). |
| Cultural District | Source ID: EP9 | | 272 | Mg/h | |
| Concrete Batching | | Particle size multiplier, k | 0.74 | | For TSP, AP-42, section 13.2.4, 11/06 ed. |
| Plant (Unioading of | | Moisture content, M | 2 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| raw materials) | | Mean wind speed, U | 3.5 | m/s | PATH Year 2010 mean wind speed |
| | | Emission Factor, E | 0.002165163 | ka/Ma | E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4) |
| | | | | | (AP-42, section 13.2.4, 11/06 ed.) |
| | | | 0.588924442 | kg/hr | Extensional from OB Linearce of Exercise Daily Link (Assessed in O) |
| | | Mitigation efficiency | 1 645 02 | % | Extracted from SP License of Express Rall Link (Appendix C). |
| West Kowloop | Small Comontitious | TSP omission factor | 1.04E-03 | g/s (miligated) | |
| Cultural District | Material Silos | Dust extraction flow rate for each | 50 | ing/ino | All calculations and assumptions are extracted from SP |
| Concrete Batching | Source ID: EP5-EP8 | mixer | 1300 | m3/hr | License of Express Rail Link (Appendix C). |
| Plant (Cement / PFA | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Silos) | | No. of amall compart siles | | | |
| | | no. or small cement sllos | 4 | 1 | |
| | | Emission height | 21 or 22 | | EP5: 21m, EP6-EP8: 22m |
| | | Emission Rate | 1.08E-02 | g/s (mitigated) | |
| | PFA weight Hopper | Production rate | 160 | m3/hr | All calculations and assumptions are extracted from SP |
| | Source ID: EP3-EP4 | Density | 0.001989 | mg/m3 | License of Express Rail Link (Appendix C). |
| | | Emission Factor | 2.60E-03 | ka/Ma | Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, |
| | | Environmente | | | 6/06 ed. |
| Mart Kaul | Minute Oct. 10 | | 2.30E-04 | g/s (mitigated) | All coloulations and accumptions are systemated from CD |
| west Kowloon | IVITXER SOURCE ID: | Dust extraction flow rate for each | 40 | mg/m3 m3/br | Liconso of Express Pail Link (Appendix C) |
| Concrete Batching | | No. of operation hour | 1000 | hr | From 7:00 to 19:00 |
| Plant (Mixing Tower) | | No. of small cement silos | 2 | | |
| ant (wixing rower) | | Emission height | 13 | | |
| | | Emission Rate | 1.67E-02 | g/s (mitigated) | |

| Works Area | Sources | | Parameter | | Remarks |
|---------------------|--------------------|----------------------------------|-------------|-----------------------------------|---|
| West Kowloon | Heavy construction | Percentage active area, p | 100 | % | Assume 100% works area for heavy construction |
| Cultural District | Source ID: K1-K12, | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | KB3-KB5 | No. of working days per month, d | 26 | days | |
| | | No. of working hours per day, h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 0.000239494 | g/m ² /s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.9878E-05 | g/m²/s (mitigated) | |
| | | | | | |
| | Wind Erosion | Percentage active area, p | 100 | % | |
| | Source ID: K1-K12, | Emission Factor | 0.85 | Mg/hectare/year | AP42, Table 11.9-4 |
| | KB3-KB5 | Emission Rate | 2.69533E-06 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 |
| | | | | | |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Plant (Construction | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| Site) | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | | 30.8 | tons | Full loading of Concrete Mixer |
| | | No. of truck trips per day | 12 | veh/hr | Aggregate Toper Truck |
| | | | 2 | veh/hr | Cement Tanker |
| | | | 6 | voh/hr | Concrete Mixer |
| | | | 0 | venin | |
| | | No. of operation hour | 12 | nr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | CBH1-CBH4 | | 1.63E-04 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.002 01 | g,,o (gatod) | concrete mixer are 12, 2, and 6 veh/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VK1 | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | | 30.8 | tons | Full loading of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 1199 | g/VKT | Aggregate Tpper Truck |
| | | | 1505 | g/VKT | Cement Tanker |
| | | | 1022 | g/VKT | Concrete Mixer |
| | | No. of truck trips per day | 0 | veh/hr | Aggregate Tpper Truck |
| | | | 2 | veh/hr | Cement Tanker |
| | | | 0 | veh/hr | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | | Emission Rate | 0.00E+00 | g/m/s (mitigated) | Aggregate Tipper Truck |
| | | | 8.36E-06 | g/m/s (mitigated) | Cement Tanker |
| | | | 0.00E+00 | g/m/s (mitigated) | Concrete Mixer |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. |
| | EP14 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 8.36E-06 | g/m/s (mitigated) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP15 | | | 1 | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 4.00E-05 | g/m/s (mitigated) | concrete mixer are 12 0 and 0 veh/hr respectively |
| | EP16 | | | 1 | No. of vehicle of aggregate tipper truck coment tanker and |
| | | | 1.70E-05 | g/m/s (mitigated) | concrete mixer are 0. 0, and 6 yeb/br respectively |
| | ED17 | | | | No. of vehicle of aggregate tipper truck, compart tanker and |
| | | | 8.52E-06 | g/m/s (mitigated) | concrete mixer are 0, 0, and 3 veh/hr respectively. |

| Works Area | Sources | | Parameter | | Bemarks |
|----------------------|---------------------|------------------------------------|-------------|-------------------|--|
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Plant (Construction | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| Site) | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | ISP emission factor, E | | 0.4/ T | E=K x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Ipper Iruck |
| | | | 491 | g/VKT | |
| | | | 391 | g/vk i | |
| | | No. of operation hour | 12 | nr | From 7:00-19:00 |
| | Source ID: | % of dust suppression | 97.5 | % | |
| | Source ID. | Sum of Emission nate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | CBX1-CBX4 | | 6.12E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| West Kowloop | Payod baul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | within concrete | | | | License of Express Bail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | a/VKT | AP-42. Section 13.2.1. Table 13.2.1-1. 01/11 ed. |
| | | Road surface silt loading, sL | 12 | a/m2 | AP-42. Section 13.2.1. Table 13.2.1-3. 01/11 ed. |
| | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | с с <i>у</i> | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Tpper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | No. of truck trips per day | | | Extracted from Specified Processes License (checked on 13 Jan |
| | | No. of address por day | | | 2012) |
| | | | 0 | veh/hr | Aggregate Tpper Truck |
| | | | 2 | veh/hr | Cement Tanker |
| | | | 0 | veh/hr | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | | Emission Rate | 0.00E+00 | g/m/s (mitigated) | Aggregate Tipper Truck |
| | | | 2.73E-06 | g/m/s (mitigated) | Cement Tanker |
| | | | 0.00E+00 | g/m/s (mitigated) | Concrete Mixer |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. |
| | EP21 | | 2.73E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP22 | | 1.52E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP23 | | 3.26E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 3 veh/hr respectively. |
| West Kowloon | Unloading aggregate | Consumption Rate | 272000 | kg/h | Extracted from SP License of Express Bail Link (Appendix C). |
| Cultural District | Source ID: EP9 | | 272 | Mg/h | |
| Concrete Batching | | Particle size multiplier, k | 0.74 | | For TSP, AP-42, section 13.2.4, 11/06 ed. |
| raw materials) | | Moisture content, M | 2 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| raw materials) | | Mean wind speed, U | 3.5 | m/s | PATH Year 2010 mean wind speed |
| | | Emission Factor, E | 0.002165163 | kg/Mg | $E=K \times (0.0016) \times ((U/2.2)^{1.3}/(M/2)^{1.4})$ |
| | | | 0 500004440 | ka/br | (m -42, Section 13.2.4, 11/06 ed.) |
| | | Mitigation officionov | 0.566924442 | ×g/nr | Extracted from SP License of Express Rail Link (Appendix C) |
| | | Emission Bate | 1 64F-03 | a/s (mitigated) | Extracted norm of Eldense of Express than Ellink (Appendix O). |
| West Kowloon | Small Cementitious | TSP emission factor | 30 | ma/m3 | |
| Cultural District | Material Silos | Dust extraction flow rate for each | 1300 | m3/hr | All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). |
| Concrete Batching | Source ID: EP5-EP8 | mixer | 10 | hr | From 7:00 to 10:00 |
| Silos) | | | 12 | | F1011 7.00 to 19.00 |
| , | | No. of small cement silos | 4 | | |
| | | Emission height | 21 or 22 | 2 | EP5: 21m, EP6-EP8: 22m |
| | | Emission Rate | 1.08E-02 | g/s (mitigated) | |
| | PFA weight Hopper | Production rate | 160 | m3/hr | All calculations and assumptions are extracted from SP |
| | Source ID: EP3-EP4 | Density | 0.001989 | mg/m3 | License of Express Rail Link (Appendix C). |
| | | Emission Factor | 2.60E-03 | ka/Ma | Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, |
| | | Enterior Data | | | 6/06 ed. |
| West Keuderer | Missex Courses ID: | | 2.30E-04 | g/s (mitigated) | All calculations and assumptions are extracted from CD |
| West Kowloon | IVIIXER SOURCE ID: | Dust extraction flow rate for each | 40 | mg/m3 m3/br | An calculations and assumptions are extracted from SP License of Express Bail Link (Appendix C) |
| Concrete Batching | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Plant (Mixing Tower) | | No. of small cement silos | 2 | 2 | |
| | | Emission height | 13 | | |
| | | Emission Rate | 1.67E-02 | g/s (mitigated) | |

| Works Area | Sources | | Parameter | | Bemarks |
|---------------------|----------------------|-----------------------------------|-------------|---------------------------------|--|
| West Kowloon | Heavy construction | Percentage active area. p | 100 | % | Assume 100% works area for heavy construction |
| Cultural District | Source ID: TE1-TE9. | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | Te1- Te7, EB1-EB5 | No. of working days per month, d | 26 | days | |
| | | No. of working hours per day, h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 0.000239494 | g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.9878E-05 | g/m ² /s (mitigated) | |
| | | D | (| | |
| | Wind Erosion | Percentage active area, p | 100 | % | |
| | Source ID: TE1-TE9, | Emission Factor | 0.85 | Mg/nectare/year | AP42, Table 11.9-4 |
| | Tel-Ter, EDT-ED3 | EIIIISSIOII NALE | 2.09555E-00 | g/m-/s | =0.85 100000/(10000 365 24 60 60) p/100 |
| West Kowloon | Haul road to barging | Particle size multiplier k | 3 23 | a/VKT | AP-42 Section 13.2.1 Table 13.2.1-1 01/11 ed |
| Cultural District | points | Road surface silt loading, sL | 8.2 | g/m2 | Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-3 |
| Barging Point | | 0. | | 0 | 01/11 ed. |
| (Construction Site) | | | | | Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of |
| | | | | | sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page 10 |
| | | | | | of Improved Activity Levels for National Emission Inventories of |
| | | | | | Fugitive Dust from Paved and Unpaved Roads. |
| | | Average truck weight, W | 16 | tons | Average weigh of the vehicles traveling the road, extracted from SP |
| | | TSD emission factor. E | 270.7 | ~^///T | License |
| | | No. of truck trips por day | 370.7 | g/VKT | E=K X (SL) ² 0.91X (W) ² 1.02 (AP-42, Section 13.2.1, 01/11 ed.) |
| | | No. of truck trips per day | 900 | veb/dav | Extracted from SF License of Express Rail Link (Appendix C) |
| | | | 1800 | veh/day | For road HB8A-B |
| | | | 1440 | veh/dav | For road HR9 |
| | | | 1080 | veh/day | For road HR10A-C |
| | | | 720 | veh/day | For road HR11 |
| | | | 360 | veh/day | For road HR12A |
| | | No. of operation hour | 12 | hr | From 7:00 to 19:00, extracted from SP License of Express Rail Link |
| | | | | | (Appendix C) |
| | Caura ID | % of dust suppression | 97.5 | % | Extracted from SP License of Express Rail Link (Appendix C) |
| | Source ID: | Emission Rate | | | No. of truck par day 000 softwards d from 00 Lines of 5 |
| | HR/A3, HR/B, | | 4.75E-14 | g/m/s (mitigated) | No. of truck per day: 900, extracted from SP License of Express |
| | | | | | No. of truck por days 1900, ovtrooted from CD Lissness of Excession |
| | нкаа-в | | 9.49E-14 | g/m/s (mitigated) | Pail Link (Appandix C) |
| | HRO | | | | No. of truck per day: 1/10 extracted from SP License of Express |
| | 11110 | | 7.59E-14 | g/m/s (mitigated) | Bail Link (Appendix C) |
| | HB10A-C | | | | No. of truck per day: 1080, extracted from SP License of Express |
| | | | 5.70E-14 | g/m/s (mitigated) | Rail Link (Appendix C) |
| | HR11 | | 0.005 14 | | No. of truck per day: 720, extracted from SP License of Express |
| | | | 3.80E-14 | g/m/s (milgaled) | Rail Link (Appendix C) |
| | HR12A | | 1 90E-14 | a/m/s (mitigated) | No. of truck per day: 360, extracted from SP License of Express |
| | | | 1.502-14 | g/m/s (milgaled) | Rail Link (Appendix C) |
| | | | | | |
| West Kowloon | Unloading of spoils | | 4.27E-03 | g/s (mitigated) | Extract from EIA report of Express Rail Link (Appendix 12.1 |
| Cultural District | to barge | | | | p.3), assume 12 nours of operation |
| Barging Point | Source ID: BP4-7 | | | | |
| | | | | | |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | | | | License of Express Bail Link (Appendix C) |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | a/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Plant (Construction | 31 | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| Site) | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | | 30.8 | tons | Full loading of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 1199 | g/VKT | Aggregate Tpper Truck |
| | | | 1505 | g/VKT | Cement Tanker |
| | | | 1022 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97 5 | % | |
| | Source ID: | Sum of Emission Rate | 57.5 | - | Sum of omission rate of aggregate tipper truck, compart to list |
| | | | | | concrete mixer |
| | ED11 | | | | |
| | | | 1.63E-04 | g/m/s (mitigated) | concrete mixer are 12.2 and 6 veh/hr respectively |
| | EP12 | | | | No, of vehicle of aggregate tipper truck, cement tanker and |
| | [-· ·- | | 1.42E-04 | g/m/s (mitigated) | concrete mixer are 12, 0, and 6 veh/hr respectively. |
| | EP13 | | 0.055 | a las la clasitia e ta di | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 6.35E-05 | g/m/s (mugated) | concrete mixer are 0, 2, and 6 veh/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | Destruite a los de la la la la la | - | - A 4/7 | License of Express Rail Link (Appendix C). |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Plant (Construction | For Loden Mathematic | Average truck weight M | 12 | y/III∠ tops | AF-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| Sile) | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Cement Tanker |
| | | | 30.8 | tons | Full loading of Concrete Mixer |
| 1 | | TSP emission factor, E | 0.0 | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1. 01/11 ed.) |
| | | , | 1199 | g/VKT | Aggregate Tpper Truck |
| | | | 1505 | g/VKT | Cement Tanker |
| | | | 1022 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| 1 | | % of dust suppression | 99.0 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | 5544 | | | | concrete mixer. |
| | EP14 | | 8.36E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | ED15 | | | · · · · / | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| 1 | EF'13 | | 4.00E-05 | g/m/s (mitigated) | concrete mixer are 12.0, and 0 veh/hr respectively |
| | FP16 | | | | No. of vehicle of aggregate tipper truck cement tanker and |
| | | | 1.70E-05 | g/m/s (mitigated) | concrete mixer are 0, 0, and 6 veh/hr respectively |
| | EP17 | | | a las la das Marcine N | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 8.52E-06 | g/m/s (mitigated) | concrete mixer are 0, 0, and 3 veh/hr respectively. |

| Works Area | Sources | | Parameter | | Remarks |
|----------------------|---------------------|-------------------------------|----------------------|-------------------|---|
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Plant (Construction | For Upladon Vahiala | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| Sile) | For Onladen vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 10 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor. E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Tpper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP18 | | 6.12E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | FP19 | | | | No. of vehicle of aggregate tipper truck cement tanker and |
| | LIIIS | | 5.44E-05 | g/m/s (mitigated) | concrete mixer are 12, 0, and 6 veh/hr respectively. |
| | EP20 | | 2 31 E-05 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 2.312-03 | g/m/s (miligated) | concrete mixer are 0, 2, and 6 veh/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Concrete Batching | hatching plant - | Particle size multiplier, k | 3 23 | a∕\/KT | AP-42 Section 13.2.1 Table 13.2.1-1 01/11 ed |
| Plant (Construction | batoning plant | Boad surface silt loading sl | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed |
| Site) | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | 5 6 7 | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | 2.4/ 7 | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | | Aggregate Tpper Truck |
| | | | 491 | g/VKT | Cement Lanker |
| | | No. of operation hour | 391 | | Erom 7:00 10:00 |
| | | No. of operation nour | 00.0 | 97 | From 7:00-19:00 |
| | Source ID: | Sum of Emission Bate | 99.0 | 76 | |
| | | | | | concrete mixer. |
| | FP21 | | | | No. of vehicle of aggregate tipper truck cement tanker and |
| | | | 2.73E-06 | g/m/s (mitigated) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP22 | | 1 52E-05 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | 5944 | | 1.522-05 | ginis (mugated) | concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP23 | | 3.26E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| West Kowloon | Unloading aggregate | Consumption Bate | 272000 | ka/h | |
| Cultural District | Source ID: EP9- | | 272 | Mg/h | Extracted from SP License of Express Rail Link (Appendix C). |
| Concrete Batching | EP10 | Particle size multiplier, k | 0.74 | | For TSP, AP-42, section 13.2.4, 11/06 ed. |
| Plant (Unloading of | | Moisture content M | 2 | 0/_ | Extracted from Specified Processes License (checked on 13 Jan |
| raw materials) | | Noistare content, W | 2 | | 2012) |
| | | Mean wind speed, U | 3.5 | m/s | PATH year 2010 mean wind speed |
| | | Emission Factor, E | 0.002165163 | kg/Mg | E=K X (0.0016) X ((0/2.2)*1.3/(M/2)*1.4) |
| | | | 0.588924442 | ka/hr | (Al 42, 36010113.2.4, 11/00 60.) |
| | | Mitigation officiancy | 00 | o/ | Extracted from Specified Processes License (checked on 13 Jan |
| | | willigation enciency | 95 | 76 | 2012) |
| | | Emission Rate | 1.64E-03 | g/s (mitigated) | |
| West Kowloon | Small Cementitious | TSP emission factor | 30 | mg/m3 | All calculations and assumptions are extracted from SP |
| Concrete Batching | Source ID: EP5-EP8 | mixer | 1300 | m3/hr | License of Express Rail Link (Appendix C). |
| Plant (Cement / PFA | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Silos) | | No. of small cement silos | 4 | | |
| | | Emission height | 01 or 00 | | |
| | | Emission Rate | 21 01 22 1 08E-02 | a/s (mitigated) | EF5. 2111, EF6-EF6. 2211 |
| | PFA weight Hopper | Production rate | 1.002-02 | m3/hr | All calculations and assumptions are extracted from SP |
| | Source ID: EP3-EP4 | Density | 0.001989 | ma/m3 | License of Express Rail Link (Appendix C). |
| 1 | | Emission Factor | 0.005.00 | ka/Ma | Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, |
| 1 | | | 2.60E-03 | kg/wg | 6/06 ed. |
| | | Emission Rate | 2.30E-04 | g/s (mitigated) | |
| West Kowloon | Mixer Source ID: | ISP emission factor | 40 | mg/m3 | All calculations and assumptions are extracted from SP |
| Concrete Batching | | mixer | 1500 | m3/hr | License of Express Rail Link (Appendix C). |
| Plant (Mixing Tower) | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| , | | No. of small cement silos | 2 | 2 | Extracted from Specified Processes License (checked on 13 Jan |
| 1 | | Emission height | 13 | | 2012) |
| | | Emission Rate | 1.6/E-02 | g/s (mitigated) | |

| Description | Sources | Parameter | | Emission Rate | Remarks |
|---|--|-----------|----------------------|--------------------|---|
| West Kowloon | Heavy construction | | 2.99368E-05 g | g/m²/s (mitigated) | Extract from PER report of Scheme HIJ and Junction |
| Highway Scheme HIJ | Source ID: AA9-12 | | | | JRD/FST/CRD (Appendix 3.2), assume 100% active area |
| | Wind Erosion | | 2.69533E-06 g | g/m²/s | Extract from PER report of Scheme HIJ and Junction |
| | Source ID: AA9-12 | | | | JRD/FST/CRD (Appendix 3.2), assume 100% active area |
| West Kowloon Highway Scheme Q (Interim) | Heavy construction Source ID: FF1-FF9 | - | 2.99368E-05 g | y/m²/s (mitigated) | Extract from PER report of Scheme Q (Appendix 3.2), assume 100% active area |
| | Wind Erosion Source ID: FF1-FF9 | | 2.69533E-06 <u>c</u> | g/m²/s | Extract from PER report of Scheme Q (Appendix 3.2), assume 100% active area |

| Works Area | Sources | | Parameter | | Remarks |
|---------------------|-----------------------|---------------------------------|-------------|-----------------------------------|---|
| West Kowloon | Heavy construction | Percentage active area, p | 100 | % | Assume 100% works area for heavy construction |
| Cultural District | Source ID: TF1- | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| oundru Biotriot | TE16 Tf1-Tf6 EB1- | No of working days per month d | 26 | davs | |
| | FB5 | No. of working bours per day, h | 12 | bour | |
| | 1 00 | Emission Eactor | 2.60 | Ma/bectare/month of activity | AP/2 Section 13.2.3.3 |
| | | Emission Pato | 0.000220404 | a/m ² /c (unmitigated) | -2 60*1000000//10000*d*b*60*60)*p/100 |
| | | Linission nate | 1 9878F-05 | g/m//s (uninitigated) | |
| | | | 1.50702-05 | g/m/3 (mugated) | |
| | Wind Fracion | Porcontago activo area, p | 100 | 0/ | |
| | | Fercentage active area, p | 100 | 70 | AD40 Table 11.0.4 |
| | TELC TH THE EDI | Emission Pato | 0.00 | a/m ² /o | AF42, Table TT.9-4 |
| | TF10, 111-110, FD1- | Emission Rate | 2.09533E-00 | g/m²/s | =0.85 1000000/(10000 365 24 60 60) p/100 |
| West Kowless | FB5 | Destide size multiplies k | 0.00 | ~ \///T | AD 40 Contine 10.0.1 Table 10.0.1.1.01/11 ad |
| West Kowloon | Haul road to barging | Particle size multiplier, k | 3.23 | g/VK1 | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Cultural District | points | Hoad surface sint loading, SL | 0.2 | g/m2 | 2 01/11 od |
| (Construction Site) | | | | | Uncontrolled total loading range from 4.2.1.9g/m2 for a mixture of |
| (Construction Site) | | | | | sand and native soil to 11 0+3 8g/m2 for native soil alone. Page |
| | | | | | 10 of Improved Activity Levels for National Emission Inventories of |
| | | | | | Eugitive Dust from Paved and Unpaved Boads |
| | | | | | Average weigh of the vehicles traveling the road, extracted from |
| | | Average truck weight, W | 16 | tons | SP License |
| | | TSP emission factor E | 370.7 | a∿/KT | $F_k \times (cl)^{0} \Omega_1 \times (W)^{1} \Omega_2 (\Delta P_4)^2$ section 13.2.1 01/11 ed) |
| | | No. of truck trips per day | 5/0./ | g/ vici | Extracted from SP License of Express Bail Link (Appendix C) |
| | | No. of track tips per day | 900 | veb/day | For road HB7A-C |
| | | | 1800 | veh/day | For road HB8A-B |
| | | | 1440 | veh/day | For road HB9 |
| | | | 1080 | veh/day | For road HB10A-C |
| | | | 720 | veh/day | For road HB11 |
| | | | 360 | veh/day | For road HB12A |
| I | | | 550 | | From 7:00 to 19:00, extracted from SP License of Evoress Pail |
| | | No. of operation hour | 12 | hr | link (Appendix C) |
| I | | % of dust suppression | 07 5 | ∾⁄_ | Extracted from SP License of Express Pail Link (Assendix C) |
| | Source ID: | Francesion Rate | 97.5 | /0 | Extracted from SF License of Express Rall Link (Appendix C) |
| I | | | | | No. of truck per day: 900, ovtracted from SP License of Everage |
| | HR/A-C | | 4.75E-14 | g/m/s (mitigated) | No. of truck per day: 900, extracted from SP License of Express |
| | | | | | hall Link (Appendix C) |
| | пкоя-в | | 9.49E-14 | g/m/s (mitigated) | No. of truck per day. 1800, extracted from SP License of Express |
| | | | | | Rall Link (Appendix C) |
| | нкэ | | 7.59E-14 | g/m/s (mitigated) | No. of truck per day: 1440, extracted from SP License of Express |
| | | | | | Rall Link (Appendix C) |
| | HRIUA-C | | 5.70E-14 | g/m/s (mitigated) | No. of truck per day. 1080, extracted from SP License of Express |
| | | | | | Rail Link (Appendix C) |
| | нкп | | 3.80E-14 | g/m/s (mitigated) | No. of truck per day: 720, extracted from SP License of Express |
| | | | | | Rail Link (Appendix C) |
| | HRIZA | | 1.90E-14 | g/m/s (mitigated) | No. of truck per day: 360, extracted from SP License of Express |
| | | | | | Rall Link (Appendix C) |
| West Kewless | Linia adina of anaila | | 4.075.00 | a (a (mitia at a d) | Enter at from OB Line and Engine a Bailt link (Annuality O) |
| West Kowloon | Unioading of spoils | | 4.27E-03 | g/s (miligaled) | Extract from SP License of Express Rall Link (Appendix C), |
| Cultural District | to barge | | | | assume 12 hours of operation |
| Barging Point | Source ID: BP4-7 | | | | |
| | | | | | |
| | | | | | |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | | | A.4/T | License of Express Rail Link (Appendix C). |
| Terminus Concrete | batching plant - | Particle size multiplier, K | 3.23 | g/vk1 | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Batching Plant | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| (Construction Site) | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | | 30.8 | tons | Full loading of Concrete Mixer |
| | | No. of truck trips per day | 12 | veh/hr | Aggregate Tpper Truck |
| | | | 2 | veh/hr | Cement Tanker |
| | | | 6 | veh/hr | Concrete Mixer |
| I | | No. of operation hour | 10 | br | From 7:00-19:00 |
| | | % of dust supercoster | 12 | 0/ | 110117.00/13.00 |
| | 0 | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| I | ED11 | | | 1 | No. of vohicle of aggregate tipper truck compart tenker and |
| | | | 1.63E-04 | g/m/s (mitigated) | concrete mixer are 12.2, and 6 veh/br reconctively |
| | EP12 | | | 1 | No. of vehicle of aggregate tipper truck coment tenker and |
| I | L(12 | | 1.42E-04 | g/m/s (mitigated) | concrete mixer are 12.0, and 6 yeh/hr recreatively |
| I | EP13 | | | | No. of vehicle of addregate tipper truck compart tankor and |
| | L. 10 | | 6.35E-05 | g/m/s (mitigated) | concrete mixer are 0.2 and 6 veh/hr respectively |
| West Kowloop | Paved haul road | <u> </u> | | 1 | All calculations and accumptions are extracted from CD |
| Cultural District | outside concrete | | | 1 | Liconse of Express Bail Link (Assendix C) |
| Terminus Concroto | hatching plant | Particle size multiplier k | <i>d</i> 00 | a/VKT | AP-42 Section 13.2.1 Table 13.2.1-1 01/11 ed |
| Ratching Plant | Satoring plant - | Boad surface silt loading st | 10 | a/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed |
| (Construction Site) | For Laden Vobiolo | Average truck weight W | 20 | tons | Full loading of Aggregate Tipper Truck |
| (Sonatuction Site) | I DI LAUEIT VEIIICIE | | 30 /5 | tons | Full loading of Cement Tanker |
| I | | | 30 P | tons | Full loading of Concrete Mixer |
| I | | TSP emission factor F | 50.0 | | E=k x (sL)^0.91x (W)^1.02 (AP-42 section 13.2.1 01/11 ed.) |
| I | | | 1100 | a/VKT | Aggregate Toper Truck |
| | | | 1505 | a/VKT | Cement Tanker |
| | | | 1000 | a/VKT | Concrete Mixer |
| | | No. of operation hour | 1022 | hr | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | Source ID: | Sum of Emission Rate | 59.0 | ,~ | Sum of emission rate of aggregate tinner truck, compart tanker and |
| | | Can of Emission nate | | 1 | concrete mixer |
| | FP14 | | | | No. of vehicle of aggregate tipper truck, comont tanker and |
| | L114 | | 8.36E-06 | g/m/s (mitigated) | concrete mixer are 0. 2, and 0 veh/br respectively |
| | ED15 | | | 1 | No. of vohicle of aggregate tipper truck accent terker and |
| | LF10 | | 4.00E-05 | g/m/s (mitigated) | concrete mixer are 12.0, and 0 voh/hr rospectively |
| I | EP16 | | | | No. of vohicle of aggregate tipper truck, agreent terker and |
| I | LITO | | 1.70E-05 | g/m/s (mitigated) | concrete mixer are 0. 0, and 6 yeh/br respectively |
| I | ED17 | | | 1 | No. of vohicle of aggregate tipper truck compart tenker and |
| I | | | 8.52E-06 | g/m/s (mitigated) | no. or vehicle or aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer are 0, 0, and 3 ven/mi respectively. |

| Works Area | Sources | | Parameter | | Bemarks |
|----------------------|------------------------|------------------------------------|-------------|-------------------|---|
| West Kowloop | Paved haul road | | | | All calculations and assumptions are extracted from SD |
| Cultural District | outside concrete | | | | License of Express Pail Link (Appendix C) |
| Concrete Batching | hatching plant - | Particle size multiplier k | 3.00 | a/VKT | AP-42 Section 13.2.1 Table 13.2.1-1 01/11 ed |
| Plant (Construction | batching plant - | Pood ourfood oilt looding, ol | 10 | | AP 42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Sito) | For Unladon Vohiolo | | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| Site) | I OF OFfiadeli Venicle | Average truck weight, w | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Tpper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97 5 | % | |
| | Source ID: | Sum of Emission Bate | 07.10 | | Cum of aminging years of an avagate tipper truck, compart tention and |
| | | | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP18 | | 6 12E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 022 00 | g/m/o (mitigatoa) | concrete mixer are 12, 2, and 6 veh/hr respectively. |
| | EP19 | | 5 44E-05 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 0.442 00 | g/m/s (miligated) | concrete mixer are 12, 0, and 6 veh/hr respectively. |
| | EP20 | | 2 31 E-05 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 2.012.00 | g/m/s (miligated) | concrete mixer are 0, 2, and 6 veh/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Cultural District | within concrete | | | | License of Express Rail Link (Appendix C). |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Plant (Construction | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| Site) | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | a/VKT | Aggregate Toper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 201 | g/VKT | Concrete Mixer |
| | | | 391 | 9/ VK1 | |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | FP21 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 2.73E-06 | g/m/s (mitigated) | concrete mixer are 0, 2, and 0 veh/hr respectively |
| | FP22 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.52E-05 | g/m/s (mitigated) | concrete mixer are 12.0, and 0 veh/hr respectively |
| | FP23 | | | | No. of vehicle of aggregate tipper truck cement tanker and |
| | 21 20 | | 3.26E-06 | g/m/s (mitigated) | concrete mixer are 0, 0, and 3 veh/hr respectively |
| West Kowloon | Unloading aggregate | Consumption Bate | 272000 | ka/b | |
| Cultural District | Source ID: EP9- | Consumption nate | 272000 | Na /n | Extracted from SP License of Express Rail Link (Appendix C). |
| Concrete Batching | FP10 | | 212 | Mg/H | |
| Plant (Unloading of | 2 | Particle size multiplier, k | 0.74 | | For TSP, AP-42, section 13.2.4, 11/06 ed. |
| raw materials) | | Moisture content, M | 2 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| ran matorialo) | | Mean wind speed, U | 3.5 | m/s | PATH Year 2010 mean wind speed |
| | | Emission Eactor E | 0.002165163 | ka/Ma | E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4) |
| | | , - | | 5 B | (AP-42, section 13.2.4, 11/06 ed.) |
| 1 | | | 0.588924442 | kg/hr | |
| | | Mitigation efficiency | 99 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| | | Emission Rate | 1.64E-03 | g/s (mitigated) | |
| West Kowloon | Small Cementitious | TSP emission factor | 30 | mg/m3 | All calculations and assumptions are extracted from SP |
| Cultural District | Material Silos | Dust extraction flow rate for each | 1300 | m3/hr | License of Express Bail Link (Appendix C) |
| Concrete Batching | Source ID: EP5-EP8 | mixer | 1000 | | Literise of Express fran Enix (Appendix O). |
| Plant (Cement / PFA | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Silos) | | No. of small comont silos | | | |
| | | No. of small cement shos | 4 | | |
| | | Emission height | 21 or 22 | | EP5: 21m, EP6-EP8: 22m |
| | | Emission Rate | 1.08E-02 | g/s (mitigated) | |
| | PFA weight Hopper | Production rate | 160 | m3/hr | All calculations and assumptions are extracted from SP |
| | Source ID: EP3-EP4 | Density | 0.001989 | mg/m3 | License of Express Rail Link (Appendix C). |
| | | Emission Factor | | ~ | Weight hopper loading, AP-42, section 11 12-4 Table 11 12-1 |
| | | | 2.60E-03 | kg/Mg | 6/06 ed. |
| | | Emission Bate | 2.30E-04 | a/s (mitigated) | |
| West Kowloon | Mixer Source ID: | TSP emission factor | 2.002-04 | ma/m3 | All calculations and assumptions are extracted from SP |
| Cultural District | EP1_EP2 | Dust extraction flow rate for each | 1500 | m3/hr | License of Everges Bail Link (Appendix C) |
| Concrete Batching | | No of operation hour | 100 | hr | From 7:00 to 19:00 |
| Plant (Mixing Towar) | | No. of small cement silos | 2 | | |
| r ant (wixing rower) | | Emission height | 19 | | |
| | | Emission Rate | 1.67E-02 | g/s (mitigated) | |

| Works Area | Sources | Parameter | | | Remarks | | |
|---------------------|----------------------|----------------------------------|-------------|-----------------------------------|---|--|--|
| West Kowloon | Heavy construction | Percentage active area, p | 100 | 0% | Assume 100% works area for heavy construction | | |
| Cultural District | Source ID: TH1- | Mitigation efficiency | 91.7 | 7 % | Water suppression 12 times a day | | |
| | TH7, Th1 - Th9, | No. of working days per month, d | 26 | days | | | |
| | HB1-HB5 | No. of working hours per day, h | 12 | hour | | | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 | | |
| | | Emission Rate | 0.000239494 | g/m ² /s (unmitigated) | =2.69 [*] 1000000/(10000*d*h*60*60)*p/100 | | |
| | | | 1.9878E-05 | g/m ² /s (mitigated) | | | |
| | | | | 3 | | | |
| | Wind Erosion | Percentage active area, p | 100 | 0 % | | | |
| | Source ID: TH1- | Emission Factor | 0.85 | Mg/hectare/year | AP42, Table 11.9-4 | | |
| | TH7, Th1 - Th9, | Emission Rate | 2.69533E-06 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 | | |
| | HB1-HB5 | | | | | | |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP | | |
| Cultural District | outside concrete | | | | License of Express Rail Link (Appendix C). | | |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. | | |
| Plant (Construction | | Road surface silt loading, sL | 12 | a/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. | | |
| Site) | For Laden Vehicle | Average truck weight W | 36 | itons | Full loading of Aggregate Tipper Truck | | |
| , | | , tronago traoit noight, n | 45 | itons | Full loading of Cement Tanker | | |
| | | | 30.8 | tons | Full loading of Concrete Mixer | | |
| | | No. of truck trips por day | 10 | vob/br | Aggregate Taper Truck | | |
| | | No. of truck trips per day | 12 | | Aggregate Tpper Truck | | |
| | | | 2 | ven/nr | Cement Tanker | | |
| | | | e | veh/hr | Concrete Mixer | | |
| | | No. of operation hour | 12 | 2 hr | From 7:00-19:00 | | |
| | | % of dust suppression | 97.5 | % | | | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and | | |
| | | | | | concrete mixer. | | |
| | CBH1-CBH4 | | | | No. of vehicle of aggregate tipper truck, cement tanker and | | |
| | | | 1.63E-04 | g/m/s (mitigated) | concrete mixer are 12 2 and 6 veh/hr respectively | | |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP | | |
| Terminus Concrete | outside concrete | | | | License of Express Bail Link (Appendix C) | | |
| Batching Plant | hatching plant - | Particle size multiplier k | 3.23 | a/VKT | AP-42 Section 13.2.1 Table 13.2.1-1 01/11 ed | | |
| Datoning Flant | batering plant | Poad surface silt leading sl | 10 | a/m2 | AP 42, Section 13.2.1, Table 13.2.1.2, 01/11 ed. | | |
| | For Ladon Vohiolo | Average truck weight W | 26 | tons | Full leading of Aggregate Tipper Truck | | |
| | I UI LAUEII VEIIICIE | Average truck weight, W | 46 | tono | Full loading of Aggregate Tipper Truck | | |
| | | | 40 | ltono | Full loading of Cenerate Mixer | | |
| | | TOD antipation factors E | 30.0 | lons | | | |
| | | ISP emission factor, E | 1100 | - 0.04 | E=K X (SL)^0.91X (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) | | |
| | | | 1195 | | Aggregate Tpper Truck | | |
| | | | 1505 | g/VKI | Cement Tanker | | |
| | | | 1022 | g/VKT | Concrete Mixer | | |
| | | No. of truck trips per day | C | veh/hr | Aggregate Tpper Truck | | |
| | | | 2 | 2 veh/hr | Cement Tanker | | |
| | | | C | veh/hr | Concrete Mixer | | |
| | | No. of operation hour | 12 | 2 hr | From 7:00-19:00 | | |
| | | % of dust suppression | 99.0 | 0 % | | | |
| | | Emission Rate | 0.00E+00 | g/m/s (mitigated) | Aggregate Tipper Truck | | |
| | | | 8.36E-06 | g/m/s (mitigated) | Cement Tanker | | |
| | | | 0.00E+00 | g/m/s (mitigated) | Concrete Mixer | | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and | | |
| | | | | | concrete mixer. | | |
| | EP14 | | | | No, of vehicle of aggregate tipper truck, cement tanker and | | |
| | | | 8.36E-06 | g/m/s (mitigated) | concrete mixer are 0, 2, and 0 veh/hr respectively. | | |
| | FP15 | | | | No. of vehicle of aggregate tipper truck cement tanker and | | |
| | 2 | | 4.00E-05 | g/m/s (mitigated) | concrete mixer are 12 0 and 0 veh/hr respectively | | |
| | EP16 | | | | No. of vehicle of aggregate tipper truck, cement tanker and | | |
| | | | 1.70E-05 | g/m/s (mitigated) | concrete mixer are 0.0, and 6 veb/hr respectively | | |
| | ED17 | | 1 | | No. of vobiolo of aggregate tippor truck, compart tenker and | | |
| | | | 8.52E-06 | g/m/s (mitigated) | concrete mixer are 0, 0, and 3 veh/hr respectively | | |

| Works Area | Sources | | Parameter | | Bemarks |
|---------------------------------------|---------------------|------------------------------------|-------------|---------------------|--|
| West Kowloon | Paved haul road | 1 | | I | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | | 1 | | License of Express Rail Link (Appendix C). |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Plant (Construction | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| Site) | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | 1 | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | 453 | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ea.) |
| | | | 45/ | g/VK1 | Aggregate Ipper Iruck |
| | | 1 | 491 | g/VKI | Cement Lanker |
| | | | 391 | g/VK I | |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID. | Sull of Emission rate | l | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | 1 | | concrete mixer. |
| | CBX1-CBX4 | | 6.12E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| Wast Kowloon | Boyod baul road | łł | l | | concrete mixer are 12, 2, and 6 ven/nr respectively. |
| Terminus Concrete | within concrete | | 1 | | All calculations and assumptions are extracted from or |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | a/VKT | AP-42. Section 13.2.1. Table 13.2.1-1, 01/11 ed. |
| 24 | 5 att | Road surface silt loading, sL | 12 | g/m2 | AP-42. Section 13.2.1. Table 13.2.1-3, 01/11 ed. |
| | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | , nondge a sea ang ay | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | l | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Tpper Truck |
| | | 1 | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | No. of truck trine per day | l | - | Extracted from Specified Processes License (checked on 13 Jan |
| | | NO. OF HUCK HIPS PER day | 1 | | 2012) |
| | | 1 | 0 | veh/hr | Aggregate Tpper Truck |
| | | | 2 | veh/hr | Cement Tanker |
| | | 1 | 0 | veh/hr | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | | Emission Rate | 0.00E+00 | g/m/s (mitigated) | Aggregate Tipper Truck |
| | | 1 | 2.73E-06 | g/m/s (mitigated) | Cement Tanker |
| | | | 0.00E+00 | g/m/s (mitigated) | Concrete Mixer |
| | Source ID: | Sum of Emission Rate | 1 | - | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | 1 | l | | concrete mixer. |
| | EP21 | | 3 705 00 | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | [| | 2.73E-06 | g/m/s (mitigated) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP22 | 1 | 1 52E-05 | a/m/a (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | 1 | 1.02E-00 | g/m/s (miligaled) | concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP23 | | 3.26E-06 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 070000 | g/11/0 (| concrete mixer are 0, 0, and 3 veh/hr respectively. |
| West Kowloon | Unloading aggregate | Consumption Rate | 272000 | kg/h | Extracted from SP License of Express Rail Link (Appendix C). |
| Concrete Batching | Source ID: EF9 | | 272 | Mg/h | · · · · · · · · · · · · · · · · · · · |
| Plant (Unloading of | | Particle size multiplier, k | 0.74 | | For TSP, AP-42, section 13.2.4, 11/06 ed. |
| raw materials) | | Moisture content, M | 2 | % | Extracted from SP License of Express Hall Link (Appendix C). |
| · · · · · · · · · · · · · · · · · · · | | Mean wind speed, U | 3.0 | m/s | PATH Year 2010 mean wind speed |
| | | Emission Factor, E | 0.002165163 | kg/Mg | E=K X (0.0010) X ((0/2.2) ^{(1.3} /(W/2) ^(1.4)) (ΔΡ-42 section 13.2.4, 11/06 ed.) |
| | | | 0 588924442 | ka/br | (AI 42, Section 10.2.4, 1700 ed.) |
| | | Mitigation efficiency | 99 | × | Extracted from SP License of Express Rail Link (Appendix C). |
| | | Emission Rate | 1.64E-03 | a/s (mitigated) | |
| West Kowloon | Small Cementitious | TSP emission factor | 30 | ma/m3 | All IIntiana and economicana are extracted from SD |
| Cultural District | Material Silos | Dust extraction flow rate for each | 1200 | | All calculations and assumptions are extracted from Sr |
| Concrete Batching | Source ID: EP5-EP8 | mixer | 1300 | m3/nr | License of Express Hall Link (Appendix C). |
| Plant (Cement / PFA | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Silos) | | No. of small cement silos | 4 | | |
| | | | 21 or 22 | | EDE: 01- EDE ED0: 00m |
| | | Emission Reto | 1.08E-02 | a/a (mitigated) | EP5: 2111, EP6-EP6: 2211 |
| | PFA weight Hopper | Production rate | 160 | g/S (finitigated) | All extendations and assumptions are extracted from SP |
| | Source ID; EP3-EP4 | Density | 0.001989 | m3/m | All calculations and assumptions are extracted from or |
| | | Emission Factor | 0.001505 | mg/m3 | Weight hopper leading AP 42 section 11 12-4 Table 11 12-1 |
| | | | 2.60E-03 | kg/Mg | Weight hopper loading, AF-42, Section 11.12-4, Table 11.12-1, 6/06 cd |
| | | Emission Rate | 2.30E-04 | a/s (mitigated) | 0/00 64. |
| West Kowloon | Mixer Source ID: | TSP emission factor | 40 | ma/m3 | All calculations and assumptions are extracted from SP |
| Cultural District | EP1-EP2 | Dust extraction flow rate for each | 1500 | m3/hr | License of Express Rail Link (Appendix C). |
| Concrete Batching | [| No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Plant (Mixing Tower) | | No. of small cement silos | 2 | | |
| | | Emission height | 13 | a (a (mitia at a d) | |

| Works Area | Sources | Parameter | | | Remarks | | |
|---------------------|--------------------|----------------------------------|-------------|-----------------------------------|---|--|--|
| West Kowloon | Heavy construction | Percentage active area, p | 100 | % | Assume 100% works area for heavy construction | | |
| Cultural District | Source ID: Ti1-Ti7 | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day | | |
| | IB3-IB5 | No. of working days per month, d | 26 | days | | | |
| | | No. of working hours per day, h | 12 | hour | | | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 | | |
| | | Emission Bate | 0.000239494 | g/m ² /s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 | | |
| | | | 1.9878E-05 | g/m ² /s (mitigated) | | | |
| | | | | 3 | | | |
| | Wind Erosion | Percentage active area, p | 100 | % | | | |
| | Source ID: Ti1-Ti7 | Emission Factor | 0.85 | Mg/hectare/year | AP42, Table 11.9-4 | | |
| | IB3-IB5 | Emission Rate | 2.69533E-06 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 | | |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP | | |
| Cultural District | outside concrete | | | | License of Express Rail Link (Appendix C). | | |
| Concrete Batching | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. | | |
| Plant (Construction | 01 | Boad surface silt loading sl | 12 | g/m2 | AP-42 Section 13.2.1 Table 13.2.1-3 01/11 ed | | |
| Site) | For Laden Vehicle | Average truck weight W | 36 | tons | Full loading of Aggregate Tipper Truck | | |
| , | | Average truck weight, w | 45 | tons | Full loading of Coment Tanker | | |
| | | | 20.9 | tons | Full loading of Concrete Mixer | | |
| | | No. of two lattices are adapted | 50.0 | | | | |
| | | No. of truck trips per day | 12 | ven/nr | Aggregate ipper iruck | | |
| | | | 2 | veh/hr | Cement Tanker | | |
| | | | 6 | veh/hr | Concrete Mixer | | |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 | | |
| | | % of dust suppression | 97.5 | % | | | |
| | Source ID: | Sum of Emission Bate | 07.0 | ,,, | Sum of emission rate of addregate tipper truck, cement tanker and | | |
| | Cource ID. | oun of Emission nate | | | concrete mixer | | |
| | | | | | No. of vehicle of aggregate tipper truck, compart tanker and | | |
| | | | 1.63E-04 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and | | |
| Maat Kaulaan | Deved here read | | | | All acloudations and accumptions are systemated from CD | | |
| Vest Kowioon | Paved naul road | | | | All calculations and assumptions are extracted from SP | | |
| Terminus Concrete | outside concrete | Destists size and tables to | 0.00 | - A 11/T | License of Express Rail Link (Appendix C). | | |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/vki | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. | | |
| | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. | | |
| | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck | | |
| | | | 45 | tons | Full loading of Cement Tanker | | |
| | | | 30.8 | tons | Full loading of Concrete Mixer | | |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) | | |
| | | | 1199 | g/VKT | Aggregate Tpper Truck | | |
| | | | 1505 | g/VKT | Cement Tanker | | |
| | | | 1022 | g/VKT | Concrete Mixer | | |
| | | No. of truck trips per day | C | veh/hr | Aggregate Tpper Truck | | |
| | | | 2 | veh/hr | Cement Tanker | | |
| | | | 0 | veh/hr | Concrete Mixer | | |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 | | |
| | | % of dust suppression | 99.0 | % | | | |
| | | Emission Bate | 0.00E+00 | g/m/s (mitigated) | Aggregate Tipper Truck | | |
| | | | 8.36E-06 | g/m/s (mitigated) | Cement Tanker | | |
| | | | 0.00E+00 | g/m/s (mitigated) | Concrete Mixer | | |
| | Source ID: | Sum of Emission Boto | 0.002+00 | g/m/s (mitigated) | Sum of amignion rate of approacts tipper truck, compart tenker and | | |
| | Source ID. | Sum of Emission Rate | | | concrete mixer. | | |
| | EP14 | | 8.36E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and | | |
| | 1 | | 0.002-00 | gine (milgaloa) | concrete mixer are 0, 2, and 0 veh/hr respectively. | | |
| | EP15 | | | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and | | |
| | 1 | | 4.00E-03 | ginis (miligaleu) | concrete mixer are 12, 0, and 0 veh/hr respectively. | | |
| | EP16 | | 1.70E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. | | |
| | EP17 | 1 | | a/m/a (mitigatad) | No. of vehicle of aggregate tipper truck, cement tanker and | | |
| 1 | 1 | | 8.52E-06 | g/m/s (miligaled) | concrete mixer are 0, 0, and 3 yeb/br respectively | | |

| Works Aroa | Sourcos | 1 | Parameter | | Pomarke |
|----------------------|---------------------|------------------------------------|-------------|---------------------------------------|--|
| West Kowloon | Poved haul road | 1 | Farameter | 1 | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | 1 | | | All calculations and assumptions are extracted from or License of Evorase Rail Link (Annendix C). |
| Concrete Batching | hatching plant - | Particle size multiplier, k | 3.23 | a/VKT | AP-42 Section 13.2.1. Table 13.2.1-1, 01/11 ed. |
| Plant (Construction | batoming pierre | Road surface silt loading, sL | 12 | g, | AP-42 Section 13.2.1. Table 13.2.1-3. 01/11 ed. |
| Site) | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| , | | , nondge a sea ang a, | 15 | tons | Unladen weight of Cement Tanker |
| | | 1 | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | 1 | 457 | g/VKT | Aggregate Tpper Truck |
| | | 1 | 491 | g/VKT | Cement Tanker |
| | | 1 | 391 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | CBX1-CBX4 | 1 | 0.405.05 | · · · · · · · · · · · · · · · · · · · | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | l | 6.12E-05 | g/m/s (mitigated) | concrete mixer are 12, 2, and 6 veh/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | within concrete | | | _ | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Unlagen vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Generate Miver |
| | | TCD omission factor E | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission racio, L | 457 | ~^///T | E=K X (SL)"U.91X (W)"1.U2 (MF-42, Section 13.2.1, 01/11 eu.) |
| | | 1 | 457 | | Aggregate Tpper Truck |
| | | 1 | 451 | | |
| | | 1 | 391 | g/VK I | Concrete Mixer |
| | | No. of truck trips per day | | | Extracted from Specified Processes License (checked on 13 Jan |
| | | 1 | 0 | uch/br | 2012) Aggregate Topor Truck |
| | | 1 | | Ven/m | Aggregale Tpper Tuck |
| | | 1 | - | ven/m | |
| | | Al Compating Lang | 10 | ven/m | |
| | | No. of operation nour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | | Emission Rate | 0.00E+00 | g/m/s (mitigated) | Aggregate Tipper Truck |
| | | 1 | 2.73E-Ub | g/m/s (mitigated) | Cement Tanker |
| | | | 0.00E+00 | g/m/s (mitigated) | Concrete Mixer |
| | Source ID: | Sum of Emission Hate | | | Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. |
| | EDO1 | | | | No. of vehicle of aggregate tipper truck, coment tanker and |
| | EPZI | | 2.73E-06 | g/m/s (mitigated) | concrete mixer are 0.2 and 0 veh/hr respectively. |
| | EP22 | 1 1 | 1 505 05 | | No. of vehicle of addregate tipper truck, cement tanker and |
| | | | 1.52E-05 | g/m/s (mitigated) | concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP23 | | 3 265-06 | a/m/a (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | ļ | 0.202-00 | g/m/s (miligaled) | concrete mixer are 0, 0, and 3 veh/hr respectively. |
| West Kowloon | Unloading aggregate | Consumption Rate | 272000 | kg/h | Extracted from SP License of Express Rail Link (Appendix C). |
| Cultural District | Source ID: EP9 | | 272 | Mg/h | |
| Concrete Batching | | Particle size multiplier, k | 0.74 | | For TSP, AP-42, section 13.2.4, 11/06 ed. |
| Plant (Univacing of | | Moisture content, M | 2 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| Idw materiais) | | Mean wind speed, U | 3.5 | m/s | PATH Year 2010 mean wind speed |
| | | Emission Factor, E | 0.002165163 | ka/Ma | E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4) |
| | | | 0 500004440 | | (AP-42, section 13.2.4, 11/06 ed.) |
| | | Mitigation officiancy | 0.588924442 | kg/hr | Extracted from CP License of Express Pail Link (Appendix C) |
| | | Milligation eniciency | 1.64E-03 | % a/c (mitigated) | EXTRACTED ITOTIL SP LICETISE OF EXPLESS FRAIL LITE (Appendix C). |
| West Kowloon | Small Cementitious | TSP emission factor | 30 | ma/m3 | |
| Cultural District | Material Silos | Dust extraction flow rate for each | | | All calculations and assumptions are extracted from SP |
| Concrete Batching | Source ID: EP5-EP8 | mixer | 1300 | m3/hr | License of Express Rail Link (Appendix C). |
| Plant (Cement / PFA | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Silos) | | No. of small cement silos | 4 | | |
| | | | 01 00 | | |
| | | Emission height | 21 or 22 | ((| EP5: 21m, EP6-EP8: 22m |
| | DEA weight Hoppor | Emission Rate | 1.000-02 | g/s (mitigatea) | |
| | PFA weight hopped | Production rate | | m3/hr | All calculations and assumptions are extracted from Sm |
| | | Density | 0.001969 | mg/m3 | License of Express Hall Link (Appendix C). |
| | | Emission Factor | 2.60E-03 | kg/Mg | Weight nopper loading, AF-42, section 11.12-4, Table 11.12-1, |
| | | Emission Bate | 2 30E-04 | a/c (mitidated) | 0/08 eu. |
| West Kowloon | Mixer Source ID: | TSP emission factor | 2.002-04 | ma/m3 | All calculations and assumptions are extracted from SP |
| Cultural District | EP1-EP2 | Dust extraction flow rate for each | 1500 | m3/hr | I icense of Express Rail Link (Appendix C). |
| Concrete Batching | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Plant (Mixing Tower) | | No. of small cement silos | 2 | | |
| | | Emission height | 13 | a (a (mitia ato d) | |

West Kowloon Cultural District

| Works Area | Sources | | Parameter | | Remarks | |
|-----------------------------------|--|---|--|--|--|--|
| West Kowloon | Heavy construction | Percentage active area, p | 18 | % | Assume 18% works area for heavy construction | |
| Cultural District | Source ID: zone 1: B16 | Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Easter | 91.7 26 12 | % days hour Ma/hasters/menth of activity | Water suppression 12 times a day | |
| | | Emission Rate | 4.3109E-05 3.57804E-06 | g/m²/s (unmitigated) g/m²/s (mitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 | |
| | Wind Erosion Source ID: zone 1: B16 | Percentage active area, p Emission Factor Emission Rate | 18 0.85 4.8516E-07 | % Mg/hectare/year g/m²/s | AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 | |
| West Kowloon Cultural District | Heavy construction Source ID: zone 2b: B12-B15 | Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h | 6 91.7 26 12 | % % days hour | Assume 6% works area for heavy construction Water suppression 12 times a day | |
| | | Emission Rate | 2.69 1.43697E-05 1.19268E-06 | g/m²/s (unmitigated) g/m²/s (mitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 | |
| | Wind Erosion Source ID: zone 2b: B12-B15 | Percentage active area, p Emission Factor Emission Rate | 6 0.85 1.6172E-07 | % Mg/hectare/year g/m²/s | AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 | |
| West Kowloon Cultural District | Heavy construction Source ID: zone 3: B8, B9, B11 | Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate | 4 91.7 26 12 2.69 9.57977E-06 7.95121E-07 | % % days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) | Assume 4% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100 | |
| | Wind Erosion Source ID: zone 3: B8, B9, B11 | Percentage active area, p Emission Factor Emission Rate | 4 0.85 1.07813E-07 | % Mg/hectare/year g/m²/s | AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 | |
| West Kowloon Cultural District | Heavy construction Source ID: Great Park: B1 - B7 | Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate | 1 91.7 26 12 2.69 2.39494E-06 1.9878E-07 | % % days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) | Assume 1% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100 | |
| | Wind Erosion Source ID: Great Park: B1 - B7 | Percentage active area, p Emission Factor Emission Rate | 1 0.85 2.69533E-08 | % Mg/hectare/year g/m²/s | AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 | |
| West Kowloon Cultural District | Heavy construction Source ID: B10, B17, BB3 - BB5 | Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate | 100 91.7 26 12 2.69 0.000239494 1.9878E-05 | % days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) | Assume 100% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100 | |
| | Wind Erosion Source ID: B10, B17, BB3 - BB5 | Percentage active area, p Emission Factor Emission Rate | 100 0.85 2.69533E-06 | % Mg/hectare/year g/m²/s | AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 | |

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| Description | Sources | Parameter | 0.00 | Emission Rate | Remarks |
|---------------------------------------|----------------------|-------------------------------|------------|---------------------|---|
| Kowloon Barging | naul road to barging | Road surface silt loading. sL | 3.23 | g/VKT a/m2 | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Point (Construction | ponito | , | | 9, | Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1- |
| Site) | | | | | Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of |
| | | | | | sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page |
| | | | | | 10 of Improved Activity Levels for National Emission Inventories of |
| | | | | | |
| | | Average truck weight, W | 16 | tons | Average weigh of the vehicles traveling the road, extracted from |
| | | TSP emission factor, E | 370.7 | g/VKT | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | No. of truck trips per day | | 0 | Extracted from SP License of Express Rail Link (Appendix C) |
| | | | 900 | veh/day | For road HR7A-C |
| | | | 1800 | ven/day veh/dav | For road HR9 |
| | | | 1080 | veh/day | For road HR10A-C |
| | | | 720 | veh/day | For road HR11 |
| | | | 360 | veh/day | For road HR12A From 7:00 to 19:00, ovtracted from SP License of Express Rail |
| | | No. of operation hour | 12 | hr | Link (Appendix C) |
| | | % of dust suppression | 97.5 | % | Extracted from SP License of Express Rail Link (Appendix C) |
| | Source ID: | Emission Rate | | | No. of two lynamidaus 000, outwoated from CD Licenses of Evenese |
| | | | 1.93E-04 | g/m/s (mitigated) | Rail Link (Appendix C) |
| | HR8A-B | | | a /m /a (mitiaatad) | No. of truck per day: 1800, extracted from SP License of Express |
| | | | 3.86E-04 | g/m/s (mitigated) | Rail Link (Appendix C) |
| | HR9 | | 3.09E-04 | g/m/s (mitigated) | No. of truck per day: 1440, extracted from SP License of Express |
| | HB10A-C | | | | No. of truck per day: 1080 extracted from SP License of Express |
| | | | 2.32E-04 | g/m/s (mitigated) | Rail Link (Appendix C) |
| | HR11 | | 1.54F-04 | g/m/s (mitigated) | No. of truck per day: 720, extracted from SP License of Express |
| | | | 1.012 01 | g, m, o (miligatod) | Rail Link (Appendix C) |
| | HRIZA | | 7.72E-05 | g/m/s (mitigated) | No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C) |
| | | | | | |
| XRL - West | Unloading of spoils | | 4.27E-03 | g/s (mitigated) | Extract from SP License of Express Rail Link (Appendix C), |
| Kowloon Barging | to barge | | | | assume 12 hours of operation |
| Points for West | | | | | |
| Kowloon Terminus | | | | | |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | Partiala aiza multipliar, k | 2.02 | a/\/KT | License of Express Rail Link (Appendix C). |
| (Construction Site) | batching plant - | Road surface silt loading sl | 3.23 12 | g/vrti g/m2 | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| · · · · · · · · · · · · · · · · · · · | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | | 30.8 | tons | Full loading of Concrete Mixer |
| | | ISP emission factor, E | 1100 | a/\/KT | E=K X (SL)^0.91X (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 1505 | g/VKT | Comont Tankor |
| | | | 1000 | | |
| | | No. of operation hour | 1022 | y/vrti hr | |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EPTI | | 1.63E-04 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12.2, and 6 veh/br respectively. |
| | EP12 | | 1 405 04 | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.42E-04 | g/m/s (mitigated) | concrete mixer are 12, 0, and 6 veh/hr respectively. |
| | EP13 | | 6.35E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| | For Laden Vehicle | Average truck weight W | 12 | g/m≥ tons | AP-42, Section 13.2.1, Lable 13.2.1-3, 01/11 ed. Full loading of Accregate Tipper Truck |
| | | Worage track weight, W | 45 | tons | Full loading of Cement Tanker |
| | | | 30.8 | tons | Full loading of Concrete Mixer |
| | | TSP emission factor, E | 1100 | ~ \\ ///T | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 1199 | | Cement Tanker |
| | | | 1022 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | Source ID: | % of dust suppression | 99.0 | % | Sum of omission rate of aggregate tipper truck, compart tanker and |
| | | | | | concrete mixer. |
| | EP14 | | 8.36F-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | ED15 | | 0.002-00 | g, m, o (miligatod) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EF 13 | | 4.00E-05 | g/m/s (mitigated) | concrete mixer are 12. 0. and 0 veh/hr respectively |
| | EP16 | | | a/m/a (mitiaatad) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.70E-05 | g/m/s (miligaleu) | concrete mixer are 0, 0, and 6 veh/hr respectively. |
| | EP17 | | 8.52E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| (Construction Site) | For Unladen Vehicle | Hoad surface silt loading, sL | 12 | g/m≥ tons | AP-42, Section 13.2.1, Lable 13.2.1-3, 01/11 ed. |
| | | Werage truck weight, W | 14 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |

Concurrent Projects - at Year 2013

| Description | Sources | Parameter | | Emission Rate | Remarks | |
|---------------------|---------------------|-------------------------------|-------------|-------------------|--|--|
| | | | 457 | a/VKT | Aggregate Toper Truck | |
| | | | 491 | g/VKT | Cement Tanker | |
| | | | 391 | g/VKT | Concrete Mixer | |
| | | No. of operation hour | 10 | br | From 7:00 10:00 | |
| | | No. of operation nour | 12 | | From 7:00-19:00 | |
| | | % of dust suppression | 97.5 | % | | |
| | | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. | |
| | EP18 | | 6.12E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. | |
| | EP19 | | 5.44E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. | |
| | EP20 | | 2.31E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0. 2, and 6 veh/hr respectively. | |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP | |
| Terminus Concrete | within concrete | | | | License of Express Rail Link (Appendix C). | |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. | |
| (Construction Site) | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. | |
| | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck | |
| | | | 15 | tons | Unladen weight of Cement Tanker | |
| | | | 12 | tons | Unladen weight of Concrete Mixer | |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) | |
| | | | 457 | g/VKT | Aggregate Tpper Truck | |
| | | | 491 | g/VKT | Cement Tanker | |
| | | | 391 | g/VKT | Concrete Mixer | |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 | |
| | | % of dust suppression | 99.0 | % | | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. | |
| | EP21 | | 2.73E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2, and 0 veh/br respectively | |
| | EP22 | | 1.52E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12. 0. and 0 veh/hr respectively. | |
| | EP23 | | 3.26E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 3 veh/hr respectively. | |
| West Kowloon | Unloading aggregate | Consumption Rate | 272000 | kg/h | Extensional from OB Linearce of Exercise Daily into (Armondia O) | |
| Terminus Concrete | Source ID: EP9- | | 272 | Mg/h | Extracted from SP License of Express Rall Link (Appendix C). | |
| Batching Plant | EP10 | Particle size multiplier, k | 0.74 | | For TSP, AP-42, section 13.2.4, 11/06 ed. | |
| (Unloading of raw | | Moisture content, M | 2 | % | Extracted from SP License of Express Rail Link (Appendix C). | |
| materials) | | Mean wind speed, U | 3.5 | m/s | PATH Year 2010 mean wind speed | |
| | | | 0 000105100 | | E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4) | |
| | | Emission Factor, E | 0.002165163 | kg/Mg | (AP-42, section 13.2.4, 11/06 ed.) | |
| | | | 0.588924442 | kg/hr | | |
| | | Mitigation efficiency | 99 | % | Extracted from SP License of Express Rail Link (Appendix C). | |
| | | Emission Rate | 1.64E-03 | g/s (mitigated) | | |
| West Kowloon | Small Cementitious | TSP emission factor | 30 | mg/m3 | All calculations and assumptions are extracted from SP | |
| Terminus Concrete | Material Silos | Dust extraction flow rate for | 1300 | m3/hr | License of Express Bail Link (Appendix C) | |
| Batching Plant | Source ID: EP5-EP8 | each mixer | 1000 | | | |
| (Cement / PFA | | No. of operation hour | 12 | hr | From 7:00 to 19:00 | |
| Silos) | | No. of small cement silos | 4 | | | |
| | | Emission height | 21 or 22 | | EP5: 21m, EP6-EP8: 22m | |
| | | Emission Rate | 1.08E-02 | g/s (mitigated) | | |
| | PFA weight Hopper | Production rate | 160 | m3/hr | All calculations and assumptions are extracted from SP | |
| | Source ID: EP3-EP4 | Density | 0.001989 | mg/m3 | License of Express Rail Link (Appendix C). | |
| | | Emission Factor | 2.60E-03 | kg/Mg | Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, 6/06 ed. | |
| | | Emission Rate | 2.30E-04 | g/s (mitigated) | | |
| West Kowloon | Mixer Source ID: | TSP emission factor | 40 | mg/m3 | All calculations and assumptions are extracted from SP | |
| Terminus Concrete | EP1-EP2 | Dust extraction flow rate for | 1500 | m3/hr | License of Express Rail Link (Appendix C). | |
| Batching Plant | | No. of operation hour | 12 | nr | ⊢rom 7:00 to 19:00 | |
| (Mixing Lower) | | INU. UI SITIAII CEMENT SIIOS | 2 | | | |
| | | Emission Rate | 1.67E-02 | g/s (mitigated) | | |

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| Works Area | Sources | | Parameter | | Remarks | |
|-----------------------------------|---|---|--|--|--|--|
| West Kowloon Cultural District | Heavy construction Source ID: zone 1: C45-C52 | Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate | 1 91.7 26 12 2.69 2.39494E-06 1.9878E-07 | % % days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) | Assume 1% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100 | |
| | Source ID: zone 1: C45-C52 | Emission Factor Emission Rate | 0.85 2.69533E-08 | Mg/hectare/year g/m²/s | AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 | |
| West Kowloon Cultural District | Heavy construction Source ID: zone 2a: C37,C39, C41, C42 | Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate | 45 91.7 26 12 2.69 0.000107772 8.94511E-06 | % days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) | Assume 45% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100 | |
| | Wind Erosion Source ID: zone 2a: C37,C39, C41, C42 | Percentage active area, p Emission Factor Emission Rate | 45 0.85 1.2129E-06 | % Mg/hectare/year g/m²/s | AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 | |
| West Kowloon Cultural District | Heavy construction Source ID: zone 2b: C26-C29, C32, C33 | Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate | 9 91.7 26 12 2.69 2.15545E-05 1.78902E-06 | % % days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) | Assume 9% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100 | |
| | Wind Erosion Source ID: zone 2b: C26-C29, C32, C33 | Percentage active area, p Emission Factor Emission Rate | 9 0.85 2.4258E-07 | % Mg/hectare/year g/m²/s | AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 | |
| West Kowloon Cultural District | Heavy construction Source ID: zone 3: C16-C18 | Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate | 10 91.7 26 12 2.69 2.39494E-05 1.9878E-06 | % % days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) | Assume 10% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100 | |
| | Wind Erosion Source ID: zone 3: C16-C18 | Percentage active area, p Emission Factor Emission Rate | 10 0.85 2.69533E-07 | % Mg/hectare/year g/m²/s | AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 | |
| West Kowloon Cultural District | Heavy construction Source ID: Great Park: C1-C10, C14 | Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate | 10 91.7 26 12 2.69 2.39494E-05 1.9878E-06 | % days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) | Assume 10% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100 | |
| | Wind Erosion Source ID: Great Park: C1-C10, C14 | Percentage active area, p Emission Factor Emission Rate | 10 0.85 2.69533E-07 | % Mg/hectare/year g/m²/s | AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 | |
| West Kowloon Cultural District | Heavy construction Source ID: C15, C53-C54, CB1- CB5 | Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate | 100 91.7 26 12 2.69 0.000239494 1.9878E-05 | % % days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) | Assume 100% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100 | |
| | Wind Erosion Source ID: C15, C53-C54, CB1- | Percentage active area, p Emission Factor Emission Bate | 100 0.85 2.69533F-06 | % Mg/hectare/year a/m²/s | AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 | |

| | | - | • | , . |
|------|--|---|---|-----|
| | | | | |
| 0.05 | | | | |
| 1.06 | | | | |
| 1.63 | | | | |
| 000 | | | | |
| | | | | |

| Description | Sources | Parameter | 0.00 | Emission Rate | Remarks |
|---------------------------------------|----------------------------------|--|------------|---------------------|---|
| Kowloon Barging | points | Particle size multiplier, k Road surface silt loading, sL | 3.23 | g/VK1 a/m2 | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Point (Construction | po | | | 3 , _ | Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1- |
| Site) | | | | | Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of |
| | | | | | sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page |
| | | | | | 10 of Improved Activity Levels for National Emission Inventories of |
| | | | | | Fugilive Dusi from Paved and Onpaved Roads. |
| | | Average truck weight, W | 16 | tons | Average weigh of the vehicles traveling the road, extracted from |
| | | TSP emission factor. E | 370.7 | a/VKT | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | No. of truck trips per day | | 5 | Extracted from SP License of Express Rail Link (Appendix C) |
| | | | 900 | veh/day | For road HR7A-C |
| | | | 1440 | ven/day veh/dav | For road HR9 |
| | | | 1080 | veh/day | For road HR10A-C |
| | | | 720 | veh/day | For road HR11 |
| | | | 360 | ven/day | For road HR12A From 7:00 to 19:00, extracted from SP License of Express Bail |
| | | No. of operation hour | 12 | hr | Link (Appendix C) |
| | | % of dust suppression | 97.5 | % | Extracted from SP License of Express Rail Link (Appendix C) |
| | Source ID: HR7A2 HR7B-C | Emission Rate | | | No. of truck per day: 900, extracted from SP License of Express |
| | 11177 <u>2</u> , 1117 <u></u> 00 | | 1.93E-04 | g/m/s (mitigated) | Rail Link (Appendix C) |
| | HR8A-B | | 3.86F-04 | g/m/s (mitigated) | No. of truck per day: 1800, extracted from SP License of Express |
| | | | 0.002 0 . | g,, o (galo d) | Rail Link (Appendix C) |
| | ппэ | | 3.09E-04 | g/m/s (mitigated) | Rail Link (Appendix C) |
| | HR10A-C | | 2 22E-U1 | a/m/s (mitigated) | No. of truck per day: 1080, extracted from SP License of Express |
| | | | 2.022-04 | g/m/s (miligated) | Rail Link (Appendix C) |
| | | | 1.54E-04 | g/m/s (mitigated) | Rail Link (Appendix C) |
| | HR12A | | | a/m/s (mitiastad) | No. of truck per day: 360, extracted from SP License of Express |
| | | | 7.72E-05 | g/m/s (miligaled) | Rail Link (Appendix C) |
| XRL - West | Linioading of spoils | | 1 27E-03 | a/s (mitigated) | Extract from EIA report of Express Bail Link (Appendix 12.1 |
| Kowloon Barging | to barge | | 4.27 ⊑-03 | g/s (milgaled) | p.3), assume 12 hours of operation |
| Point (5 Barging | Source ID: BP4-7 | | | | |
| Points for West | | | | | |
| Concrete Batching | Plant - Phase 1 | | | | |
| West Kowloon | Paved haul road | 1 | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| | For Laden Vehicle | Road surface slit loading, sL | 12 | g/m2 tons | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | | 30.8 | tons | Full loading of Concrete Mixer |
| | | TSP emission factor, E | | a 41 (T | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 1199 | g/VKT | Aggregate Ipper Truck |
| | | | 1505 | g/VKI | Cement Lanker |
| | | | 1022 | g/VK I | Concrete Mixer |
| | | % of dust suppression | 97 5 | nn % | From 7:00-19:00 |
| | Source ID: | Sum of Emission Rate | 57.5 | 76 | Sum of emission rate of addregate tipper truck cement tanker and |
| | | | | | concrete mixer. |
| | EP11 | | 1 005 04 | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.63E-04 | g/m/s (miligaled) | concrete mixer are 12, 2, and 6 veh/hr respectively. |
| | EP12 | | 1.42E-04 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | EP13 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 6.35E-05 | g/m/s (mitigated) | concrete mixer are 0, 2, and 6 veh/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | a/VKT | AP-42. Section 13.2.1. Table 13.2.1-1. 01/11 ed. |
| J J J J J J J J J J J J J J J J J J J | 3 P | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 30 8 | tons | Full loading of Cement Tanker |
| | | TSP emission factor, E | 00.0 | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 1199 | g/VKT | Aggregate Tpper Truck |
| | | | 1505 | g/VKT | Cement Tanker Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | EP14 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | ბ.პხ⊏-06 | y/m/s (miligaleu) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP15 | | 4.00E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | EP16 | | | a /ma /a / ma;k:) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.70E-05 | g/m/s (mitigated) | concrete mixer are 0, 0, and 6 veh/hr respectively. |
| | EP17 | | 8.52E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| (Construction Site) | For Unladen Vehicle | Road surface silt loading, sL | 12 | g/m2 tons | AM-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | | Average linek weight, W | 14 | tons | Unladen weight of Cement Tanker |

| Description | Sources | Parameter | | Emission Rate | Remarks |
|---------------------|---------------------|-------------------------------|----------------|-------------------|---|
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Tpper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | 07.0 | | Sum of omission rate of aggregate tipper truck, compart tanker and |
| | | | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | No. of uchiele of engages to time where a ment tenker and |
| | EP18 | | 6.12E-05 | g/m/s (mitigated) | No. of venicle of aggregate tipper truck, cement tanker and |
| | EP10 | | | | concrete mixer are 12, 2, and 6 ven/hr respectively. |
| | | | 5.44E-05 | g/m/s (mitigated) | concrete mixer are 12.0, and 6 veh/hr respectively |
| | EP20 | | · - | | No, of vehicle of aggregate tipper truck, cement tanker and |
| | | | 2.31E-05 | g/m/s (mitigated) | concrete mixer are 0, 2, and 6 veh/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | within concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| (Construction Site) | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | 0.41 (T | E=K x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VK1 | Aggregate Ipper Iruck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP21 | | 0.705.00 | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 2.73E-06 | g/m/s (mitigated) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP22 | | 1 525 05 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.52E-05 | g/m/s (miligaled) | concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP23 | | 3.26E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | 11.1 | | | g,, e (| concrete mixer are 0, 0, and 3 veh/hr respectively. |
| Vest Kowloon | Unioading aggregate | Consumption Rate | 272000 | kg/h | Extracted from SP License of Express Rail Link (Appendix C). |
| Ratching Plant | Source ID. EF9- | | 272 | Mg/h | |
| (Unloading of raw | | Particle size multiplier, k | 0.74 | | For TSP, AP-42, section 13.2.4, 11/06 ed. |
| materials) | | Moisture content, M | 2 | % | Extracted from Specified Processes License (checked on 13 Jan |
| , | | Mean wind anodd LL | 0.5 | m/a | 2012) DATH year 2010 mean wind encod |
| | | Mean wind speed, 0 | 3.5 | 11/5 | FATH year 2010 mean wind speed $E_{\rm k} \times (0.0016) \times ((11/2.2) \times 1.2)(M/2) \times 1.4)$ |
| | | Emission Factor, E | 0.002165163 | kg/Mg | (AP-42 section 13.2.4 11/06 ed) |
| | | | 0 588924442 | ka/br | (/// +2, 30010/110.2.4, 11/00 00.) |
| | | | 0.000024442 | Ng/m | Extracted from Specified Processes License (checked on 13 Jan |
| | | Mitigation efficiency | 99 | % | 2012) |
| | | Emission Rate | 1.64E-03 | g/s (mitigated) | - , |
| West Kowloon | Small Cementitious | TSP emission factor | 30 | mg/m3 | All colouisticns and accumptions are articated from CD |
| Terminus Concrete | Material Silos | Dust extraction flow rate for | 1300 | m3/hr | License of Express Bail Link (Appendix C) |
| Batching Plant | Source ID: EP5-EP8 | each mixer | 1300 | 113/11 | License of Express han Link (Appendix C). |
| (Cement / PFA | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Silos) | | No. of small cement silos | 4 | | |
| | | Emission beight | 01 or 00 | | |
| | | Emission height | 21 01 22 | a/a (mitigated) | EP5: 21m, EP6-EP8: 22m |
| | REA woight Hoppor | Production rate | 1.00E-02 | g/s (miligaled) | All a classications and a commutions are entropic to different OD |
| | | Dopoity | 0.001.000 | | All calculations and assumptions are extracted from SP |
| | | Emission Easter | 0.001989 | ing/ino | Woight hoppor loading AD 40 section 11.10 A Table 11.10 f |
| | | LIIIISSIUII FAGIUI | 2.60E-03 | kg/Mg | 6/06 ed |
| | | Emission Rate | 2.30F-04 | g/s (mitigated) | 0,00 0u. |
| West Kowloon | Mixer Source ID. | TSP emission factor | 2.00L-04 40 | mg/m3 | |
| Terminus Concrete | EP1-EP2 | Dust extraction flow rate for | | 0, | All calculations and assumptions are extracted from SP |
| Batching Plant | | each mixer | 1500 | m3/nr | License of Express Hall Link (Appendix C). |
| (Mixing Tower) | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| | | No. of small cement silos | 2 | | Extracted from Specified Processes License (checked on 13 Jan |
| | | Emission height | 13 | a/a (mitiastad) | 2012) |
| Concrete Batching | Plant - Phase 2 | Emission Rate | 1.07E-02 | g/s (milgaled) | |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from |
| Terminus Concrete | outside concrete | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Batching Plant - | batching plant - | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| Phase 2 | | Average truck weight, W | 38 | tons | Aggregate Tipper Truck (Laden) |
| (Construction Site) | | | 44 | | Concrete Mixer Truck (Upladon) |
| | | TSP emission factor E | 10 | lons | $F_k x (sl)^0 91x (W)^1 02 (AP-42 section 13.2.1, 01/11 ed)$ |
| | | | 1267 | g/VKT | Aggregate Tpper Truck |
| | | | 1471 | g/VKT | Cement Tanker |
| | | | 424 | g/VKT | Concrete Mixer |
| | | No. of truck trips per day | 10 | veh/hr | Aggregate Tpper Truck |
| | | | 0 | veh/hr | Cement Tanker |
| | | No. of aparation hour | 0 | ven/nr br | Concrete Mixer |
| | | % of dust suppression | 12 | % | F1011 7.00-19.00 |
| | | Emission Rate | 3.17F-04 | g/m/s (mitigated) | Aggregate Tipper Truck |
| | | | 0.00E+00 | g/m/s (mitigated) | Cement Tanker |
| | | | 0.00E+00 | g/m/s (mitigated) | Concrete Mixer |
| | | Distance | 30 | m | |
| | | Area | 90 | m2 | |
| 11 | Source ID: | oum or Emission Rate | | I | ourn of emission rate of aggregate tipper truck, cement tanker and |

| Description | Sources | Parameter | | Emission Rate | Remarks |
|---------------------|------------------|-------------------------------|----------------------|--|--|
| | | | 1.06E-04 | g/m2/s (mitigated) | No. of vehicle of aggregate tipper truck, compart tapker and |
| | AEP 2 | | 5.99F-05 | g/m2/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | AEP 3 | | 1.65E-04 | g/m2/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | AEP 6 | | 3.53E-05 | g/m2/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | AEP 8 | | 1.06E-04 | g/m2/s (mitigated) | INO. OT VENICIE OF AGGREGATE TIPPER TRUCK, CEMENT TANKER AND |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from |
| Terminus Concrete | outside concrete | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Batching Plant - | batching plant - | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| (Construction Site) | | Average truck weight, w | 44 | tons | Cement Tanker (Laden) |
| (, | | | 13 | tons | Concrete Mixer Truck (Unladen) |
| | | TSP emission factor, E | 1007 | - 0.027 | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 1267 | g/VKT | Cement Tanker |
| | | | 424 | g/VKT | Concrete Mixer |
| | | No. of truck trips per day | 10 | veh/hr | Aggregate Tpper Truck |
| | | | 4 | ven/nr veh/hr | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 100.0 | % | |
| | | Emission Rate | 0.00E+00 | g/m/s (mitigated) | Aggregate Tipper Truck |
| | | | 0.00E+00 | g/m/s (mitigated) | Concrete Mixer |
| | | Distance | 30 | m | |
| | | Area | 90 | m2 | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | 0.00E+00 | g/m2/s (mitigated) | |
| | AEP 4 | | | g/m2/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 0.00E+00 | grinz/s (miligaled) | concrete mixer are 10, 4, and 10 veh/hr respectively. |
| | AEP 5 | | 0.00E+00 | g/m2/s (mitigated) | rvo. or venicle or aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively |
| | AEP 7 | | | a/m2/c (mitiaatad) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 0.00E+00 | g/m∠/s (miligateo) | concrete mixer are 10, 0, and 0 veh/hr respectively. |
| West Kowleen | Poyod baul road | | | | All calculations and assumptions are extracted from |
| Terminus Concrete | outside concrete | | | | Environmental Review report (v. 2012Oct) of Express Rail Link |
| Batching Plant - | batching plant - | | | | VEP (Appendix C1). |
| Phase 2 | | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| (Construction Site) | Leave CBP | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Lable 13.2.1-3, 01/11 ed. |
| | | Average truck weight, w | 14 | tons | Cement Tanker (Unladen) |
| | | | 30 | tons | Concrete Mixer Truck (Laden) |
| | | TSP emission factor, E | 501 | - 0.02 | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Cement Tanker |
| | | | 995 | g/VKT | Concrete Mixer |
| | | No. of truck trips per day | 10 | veh/hr | Aggregate Tpper Truck |
| | | | 0 | veh/hr | Cement Tanker |
| | | No. of operation hour | 10 | hr | From 7:00-19:00 |
| | | % of dust suppression | 91.0 | % | |
| | | Emission Rate | 1.48E-04 | g/m/s (mitigated) | Aggregate Tipper Truck |
| | | | 0.00E+00 2.49E-04 | g/m/s (mitigated) | Cement Tanker |
| | | Distance | 2.430-04 | m | |
| | | Area | 90 | m2 | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | 1.32E-04 | g/m2/s (mitigated) | |
| | AEP 9 | | 7 625 06 | n/m2/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.020-00 | grinzio (miligaleu) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | AEP 11 | | 8.29E-05 | g/m2/s (mitigated) | INO. OF VERICLE OF AGGREGATE TIPPER TRUCK, CEMENT TANKER AND CONCRETE MIXER ARE 0. 0. and 10 veh/hr respectively |
| | AEP 12 | | | a/m2/a (mitiactad) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 9.06E-05 | g/m∠/s (mitigated) | concrete mixer are 0, 2, and 10 veh/hr respectively. |
| | AEP 13 | | 9.06E-05 | g/m2/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | AEP 14 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 4.92E-05 | g/m2/s (mitigated) | concrete mixer are 10, 0, and 0 veh/hr respectively. |
| | AEP 16 | | 1.32F-04 | g/m2/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | AED 17 | | | ······································ | concrete mixer are 10, 0, and 10 veh/hr respectively. |
| | | | 1.32E-04 | g/m2/s (mitigated) | concrete mixer are 10, 0, and 10 veh/hr respectively. |
| | _ | | | | |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from |
| Batching Plant - | batching plant - | | | | VEP (Appendix C1). |
| Phase 2 | | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| (Construction Site) | Toward CBP | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | | Average truck weight, W | 38 | tons | Aggregate Tipper Truck (Laden) |
| | | | 44 13 | tons | Concrete Mixer Truck (Unladen) |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 1267 | g/VKT | Aggregate Tpper Truck |
| | | | 14/1 424 | | Concrete Mixer |
| | | No. of truck trips per day | 10 | veh/hr | Aggregate Tpper Truck |
| | | | 4 | veh/hr | Cement Tanker |
| | | No. of operation hour | 10 | ven/nr hr | |
| | | % of dust suppression | 100.0 | % | |

Concurrent Projects - at Year 2014

| Description | Sources | Parameter | | Emission Rate | Remarks |
|--------------------|-----------------------|-----------------------------|-----------------|---------------------------------|---|
| | | Emission Rate | 0.00E+00 | g/m/s (mitigated) | Aggregate Tipper Truck |
| | | | 0.00E+00 | g/m/s (mitigated) | Cement Tanker |
| | | | 0.00E+00 | g/m/s (mitigated) | Concrete Mixer |
| | | Distance | 30 | m | |
| | | Area | 90 | m2 | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | _ | | concrete mixer. |
| | | | 0.00E+00 | g/m2/s (mitigated) | |
| | AEP 10 | | 0.00E+00 | a/m2/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | - | 9 [,] , | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | AEP 15 | | 0.00E+00 | g/m2/s (mitigated) | No. of venicle of aggregate tipper truck, cement tanker and |
| | | | | • • • | Concrete mixer are 10, 0, and 10 ventil respectively. |
| West Kowloon | I Inloading aggregate | Consumption Rate | 210000 | ka/h | All calculations and assumptions are extracted from |
| Terminus Concrete | Source ID: PEP9- | obligation rate | 210 | Ma/h | Environmental Review report (v. 2012Oct) of Express Rail Link |
| Batching Plant - | PFP10 | Particle size multiplier, k | 0.74 | 1419/ | For TSP. AP-42. section 13.2,4, 11/06 ed. |
| Phase 2 (Unloading | | | | | All calculations and assumptions are extracted from |
| of raw materials) | | Moisture content, M | 2 | % | Environmental Review report (v. 2012Oct) of Express Rail Link |
| , | | | | | VEP (Appendix C1). |
| | | Mean wind speed, U | 3.5 | m/s | PATH year 2010 mean wind speed |
| | | Emission Easter E | 0.000165160 | 1 /\ 1 | E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4) |
| | | Emission Factor, E | 0.002105105 | Kg/Mg | (AP-42, section 13.2.4, 11/06 ed.) |
| | | | 0.454684312 | kg/hr | |
| | | | | | All calculations and assumptions are extracted from |
| | | Mitigation efficiency | 50 | % | Environmental Review report (v. 2012Oct) of Express Rail Link |
| | | | | | VEP (Appendix C1). |
| | | Emission height | 5.5 | m | |
| | | Emission Rate | 6.32E-02 | g/s (mitigated) | |
| West Kowloon | Cement Silos | | | | All calculations and assumptions are extracted from |
| lerminus Concrete | Source ID: | e official and a state | | | Environmental Review report (v. 2012Oct) of Express Hall Link |
| Batching Plant - | PEP 1 to PEP 7 | Emission height | 5.0 1 49E 02 | m s/s (mitiasted) | |
| Phase 2 (Gement / | | Emission nate | 1.405-02 | g/s (miligaleu) | |
| $FFA Silvs_j$ | Miyer & Weight | | | | All calculations and assumptions are extracted from |
| | Hopper | | | | Environmental Review report (v. 2012Oct) of Express Rail Link |
| | Source ID: | | | | VEP (Appendix C1). |
| | PEP8 | Emission height | 5.5 | m | |
| | | Emission Rate | 1.98E-02 | a/s (mitigated) | |
| | | | | | |
| West Kowloon High | way Scheme HIJ | | | | |
| West Kowloon | Heavy construction | | 8.98104E-06 | g/m ² /s (mitigated) | Extract from PER report of Scheme HIJ and Junction |
| Highway Scheme | Source ID: AA9-12 | | | | JRD/FST/CRD (Appendix 3.3), assume 30% active area |
| HIJ | | | | | |
| | Wind Fracian | | 9 096E 07 | a/m²/a | Extract from DED report of Scheme ULL and Junction |
| | | | 0.0000-07 | g/11-/5 | IBD/EST/CBD (Appendix 3.3) assume 30% active area |
| | 300100 ID. AA3-12 | | | | on Dh On Dh (Appendix 5.5), assume 50 % active area |
| West Kowloon | Heavy construction | | 8 98104F-06 | a/m²/s (mitigated) | Extract from PEB report of Scheme Q (Appendix 3.2) assume |
| Highway Scheme Q | Source ID: FF1-FF9 | | 0.001042 00 | g/m/o (miligalou) | 30% active area |
| (Interim) | | | | | |
| () | | | | | |
| | | | | | |
| | Wind Erosion | | 8.086E-07 | g/m²/s | Extract from PER report of Scheme Q (Appendix 3.2), assume |
| | Source ID: FF1-FF9 | | | 0 | 30% active area |
| | | | | | |
| | | 1 | | | |

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| Works Area | Sources | | Parameter | | Remarks |
|--|--|--|------------------------------------|--|---|
| West Kowloon Cultural District | Heavy construction Source ID: zone 1: E60 | Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor | 1 91.7 26 12 2 69 | % % days hour Mo/bectare/month of activity | Assume 1% works area for heavy construction Water suppression 12 times a day |
| | Wind Frosion | Emission Rate | 2.39494E-06 1.9878E-07 | g/m²/s (unmitigated) g/m²/s (mitigated) % | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| Wast Kowloop | Source ID: zone 1: E60 | Emission Factor Emission Rate | 0.85 2.69533E-08 | Mg/hectare/year g/m²/s | AP42, Table 11.9-4 =0.85*100000/(10000*365*24*60*60)*p/100 |
| Cultural District | Source ID: zone 2a: E51-E55, E57-E59 | Mitigation efficiency No. of working days per month, d No. of working hours per day, h | 91.7 26 12 | % days hour | Water suppression 12 times a day |
| | Wind Exceion | Emission Rate | 1.43697E-05 1.19268E-06 | g/m²/s (unmitigated) g/m²/s (mitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | Source ID: zone 2a: E51-E55, E57-E59 | Emission Factor Emission Rate | 0.85 1.6172E-07 | Mg/hectare/year g/m²/s | AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 |
| West Kowloon Cultural District | Heavy construction Source ID: zone 2b: E26, E28, E30-E35, E39, E41- | Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h | 4 91.7 26 12 | % % days hour | Assume 4% works area for heavy construction Water suppression 12 times a day |
| | E43, E45-E47, E49, E50 | Emission Factor Emission Rate | 2.69 9.57977E-06 7.95121E-07 | Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) | AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | Wind Erosion Source ID: zone 2b: E26, E28, E30-E35, E39, E41- E43, E45-E47, E49, E50 | Percentage active area, p Emission Factor Emission Rate | 4 0.85 1.07813E-07 | % Mg/hectare/year g/m²/s | AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 |
| West Kowloon Cultural District | Heavy construction Source ID: zone 3: E12-E17, E21-E25, E27, E29 | Heavy constructionPercentage active area, pSource ID:Mitigation efficiencyzone 3: E12-E17,No. of working days per month, dE21-E25, E27, E29No. of working hours per day, h | 2 91.7 26 12 | % % days hour | Assume 2% works area for heavy construction Water suppression 12 times a day |
| | | Emission Factor Emission Rate | 2.69 4.78989E-06 3.97561E-07 | Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) | AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | Wind Erosion Source ID: zone 3: E12-E17, E21-E25, E27, E29 | Percentage active area, p Emission Factor Emission Rate | 2 0.85 5.39066E-08 | % Mg/hectare/year g/m²/s | AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 |
| West Kowloon Cultural District | Heavy construction Source ID: Great Park: E1-E10, E18-E20, E36-E38, | Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h | 0.3 91.7 26 12 | % % days hour | Assume 0.3% works area for heavy construction Water suppression 12 times a day |
| | E40, E44, E48, E56, E61 | E48, E56, Emission Factor Emission Rate | 2.69 7.18483E-07 5.96341E-08 | Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) | AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | Wind Erosion Source ID: Great Park: E1-E10, E18-E20, E36-E38, E40, E44, E48, E56, E61 | Percentage active area, p Emission Factor Emission Rate | 0.3 0.85 8.086E-09 | % Mg/hectare/year g/m²/s | AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 |
| West Kowloon Cultural District | Heavy construction Source ID: E11, EB1-EB5 | Percentage active area, p Mitigation efficiency No. of working days per month, d | 100 91.7 26 | % % days | Assume 100% works area for heavy construction Water suppression 12 times a day |
| | | Emission Factor Emission Rate | 2.69 0.000239494 1.9878E-05 | Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) | AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | Wind Erosion Source ID: E11, EB1-EB5 | Percentage active area, p Emission Factor Emission Rate | 100 0.85 2.69533E-06 | % Mg/hectare/year g/m²/s | AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 |
| West Kowloon Barging Point (Construction Site) | Haul road to barging points | Particle size multiplier, k Road surface silt loading, sL | 3.23 8.2 | g/VKT g/m2 | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1- 3, 01/11 ed. Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page 10 of Improved Activity Levels for National Emission Inventories of Fugitive Dust from Paved and Unpaved Roads. |
| | | Average truck weight, W | 16 | tons | Average weigh of the vehicles traveling the road, extracted from SP License |
| | | I SP emission factor, E No. of truck trips per day | 370.7 | g/VKI veb/dav | E=K X (SL)^0.91X (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Extracted from SP License of Express Rail Link (Appendix C) For road HB7A-C |
| | | | 1800 1440 | veh/day veh/day | For road HR8A-B For road HR9 |
| | | | 1080 720 | veh/day veh/day | For road HR10A-C For road HR11 |

| Works Area | Sources | | Parameter | | Remarks |
|---------------------------------------|-----------------------|-------------------------------|-----------|--------------------------|---|
| | | | 360 | veh/day | For road HR12A From 7:00 to 19:00, extracted from SP License of Express Roll |
| | | No. of operation hour | 12 | hr | Link (Appendix C) |
| | | % of dust suppression | 97.5 | % | Extracted from SP License of Express Rail Link (Appendix C) |
| | Source ID: | Emission Rate | | | |
| | HR7A3, HR7B, HB7C1 | | 4.75E-16 | g/m/s (mitigated) | No. of truck per day: 900, extracted from SP License of Express Bail Link (Appendix C) |
| | HR8A-B | | | | No. of truck per day: 1800, extracted from SP License of Express |
| | - | | 9.49E-16 | g/m/s (mitigated) | Rail Link (Appendix C) |
| | HR9 | | 7.59E-16 | g/m/s (mitigated) | No. of truck per day: 1440, extracted from SP License of Express |
| | | | | | Rall Link (Appendix C) |
| | | | 5.70E-16 | g/m/s (mitigated) | Rail Link (Appendix C) |
| | HR11 | | 3 80E-16 | a/m/s (mitigated) | No. of truck per day: 720, extracted from SP License of Express |
| | | | 0.002 10 | g/m/s (miligated) | Rail Link (Appendix C) |
| | HR12A | | 1.90E-16 | g/m/s (mitigated) | No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C) |
| | | | | | |
| West Kowloon | Unloading of spoils | | 4.27E-03 | g/s (mitigated) | Extract from EIA report of Express Rail Link (Appendix 12.1 |
| Barging Point (5 | to barge | | | | p.3) , assume 12 hours of operation |
| West Kowloon | Source ID. DP4-7 | | | | |
| Terminus Works | | | | | |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | 0.00 | - 0.02 | License of Express Rail Link (Appendix C). |
| Batching Plant (Construction Site) | batching plant - | Particle size multiplier, K | 3.23 | | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| | For Laden Vehicle | Average truck weight W | 36 | g/m2 | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | | 30.8 | tons | Full loading of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 1199 | g/VKT | Aggregate Tpper Truck |
| | | | 1505 | | Cement Lanker |
| | | No. of operation hour | 1022 | br | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | 110117.00-13.00 |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP11 | | 1 005 04 | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.63E-04 | g/m/s (miligated) | concrete mixer are 12, 2, and 6 veh/hr respectively. |
| | EP12 | | 1.42E-04 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | FP13 | | | | No. of vehicle of aggregate tipper truck cement tanker and |
| | 2. 10 | | 6.35E-05 | g/m/s (mitigated) | concrete mixer are 0, 2, and 6 veh/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | Partiala aiza multipliar k | 2.02 | | License of Express Rail Link (Appendix C). |
| Batching Flant | batching plant - | Road surface silt loading, sL | 12 | a/m2 | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | TSP omission factor. E | 30.8 | tons | Full loading of Concrete Mixer |
| | | | 1199 | a/VKT | Aggregate Toper Truck |
| | | | 1505 | g/VKT | Cement Tanker |
| | | | 1022 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | nr % | From 7:00-19:00 |
| | Source ID: | Sum of Emission Rate | 33.0 | /0 | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP14 | | 8.36E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | EP15 | | | | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | | | 4.00E-05 | g/m/s (mitigated) | concrete mixer are 12. 0. and 0 veh/hr respectively. |
| | EP16 | | 1 705 05 | $\alpha/m/s$ (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.700-05 | grinds (miligaleu) | concrete mixer are 0, 0, and 6 veh/hr respectively. |
| | EP17 | | 8.52E-06 | g/m/s (mitigated) | INO. of vehicle of aggregate tipper truck, cement tanker and |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| (Construction Site) | For Unladon Vahiala | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | n or ornaden vehicle | Average truck weight, W | 14 | tons | Unlagen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Tpper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | Source ID: | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP18 | | 6.12E-05 | g/m/s (mitigated) | INO. of vehicle of aggregate tipper truck, cement tanker and |
| | EP19 | | | · | No, of vehicle of aggregate tipper truck, cement tanker and |
| | | | 5.44E-05 | g/m/s (mitigated) | concrete mixer are 12, 0, and 6 veh/hr respectively. |
| | EP20 | | 2.31E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| West Kowlean | Payed baul road | | | | concrete mixer are 0, 2, and 6 veh/hr respectively. |
| Terminus Concrete | within concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| (Construction Site) | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| I | | l | 15 | tons | Unladen weight of Cement Tanker |

West Kowloon Cultural District

| Works Area | Sources | | Parameter | | Remarks |
|-------------------------------------|---------------------|--|-------------|-------------------|--|
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Tpper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. |
| | EP21 | | 2.73E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP22 | | 1.52E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP23 | | 3.26E-06 | g/m/s (mitigated) | concrete mixer are 0, 0, and 3 veh/hr respectively. |
| West Kowloon | Unloading aggregate | Consumption Rate | 272000 | kg/h | Extracted from SP License of Express Rail Link (Appendix C). |
| Terminus Concrete | Source ID: EP9- | | 272 | Mg/h | · · · · · · · · · · · · · · · · · · · |
| (Unloading of raw | | Particle size multiplier, k | 0.74 | | For TSP, AP-42, section 13.2.4, 11/06 ed. |
| materials) | | Moisture content, M | 2 | % | Extracted from Specified Processes License (checked on 13 Jan 2012) |
| | | Mean wind speed, U | 3.5 | m/s | PATH year 2010 mean wind speed |
| | | Emission Factor E | 0 002165163 | ka/Ma | E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4) |
| | | | | | (AP-42, section 13.2.4, 11/06 ed.) |
| | | | 0.588924442 | kg/hr | |
| | | Mitigation efficiency | 99 | % | Extracted from Specified Processes License (checked on 13 Jan 2012) |
| | | Emission Rate | 1.64E-03 | g/s (mitigated) | |
| West Kowloon | Small Cementitious | TSP emission factor | 30 | mg/m3 | All calculations and assumptions are extracted from SP |
| Terminus Concrete | Material Silos | Dust extraction flow rate for each | 1300 | m3/hr | License of Express Rail Link (Appendix C). |
| (Cement / PFA | Source ID. EFS-EF6 | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Silos) | | No. of small cement silos | 4 | | |
| | | Emission height | 21 or 22 | | EP5: 21m, EP6-EP8: 22m |
| | | Emission Rate | 1.08E-02 | g/s (mitigated) | |
| | PFA weight Hopper | Production rate | 160 | m3/hr | All calculations and assumptions are extracted from SP |
| | Source ID: EP3-EP4 | Density | 0.001989 | mg/m3 | License of Express Rail Link (Appendix C). |
| | | Emission Factor | 2.60E-03 | kg/Mg | Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, 6/06 ed. |
| | | Emission Rate | 2.30E-04 | g/s (mitigated) | |
| West Kowloon | Mixer Source ID: | TSP emission factor | 40 | mg/m3 | All calculations and assumptions are extracted from SP |
| Terminus Concrete Batching Plant | EP1-EP2 | Dust extraction flow rate for each mixer | 1500 | m3/hr | License of Express Rail Link (Appendix C). |
| (Mixing Tower) | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| | | No. of small cement silos | 2 | | Extracted from Specified Processes License (checked on 13 Jan |
| | | Emission height | 13 | a/a (mitigated) | 2012) |
| L | I | Emission Rate | 1.6/E-02 | g/s (mugated) | |

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Concurrent Projects - at Year 2015

| Description | Sources | Parameter | | Emission Rate | Remarks |
|---|--|-----------|-------------|--------------------|---|
| West Kowloon Highway Scheme HIJ | Heavy construction Source ID: AA9-12 | | 8.98104E-06 | g/m²/s (mitigated) | Extract from PER report of Scheme HIJ and Junction JRD/FST/CRD (Appendix 3.3), assume 30% active area |
| | Wind Erosion Source ID: AA9-12 | | 8.086E-07 | g/m²/s | Extract from PER report of Scheme HIJ and Junction JRD/FST/CRD (Appendix 3.3), assume 30% active area |
| West Kowloon Highway Scheme Q (Interim) | Heavy construction Source ID: FF1-FF9 | | 8.98104E-06 | g/m²/s (mitigated) | Extract from PER report of Scheme Q (Appendix 3.2), assume 30% active area |
| | Wind Erosion Source ID: FF1-FF9 | | 8.086E-07 | g/m²/s | Extract from PER report of Scheme Q (Appendix 3.2), assume 30% active area |

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| Works Area | Sources | | Parameter | | Remarks |
|---------------------|----------------------|----------------------------------|---------------------|------------------------------|---|
| West Kowloon | Heavy construction | Percentage active area, p | 1 | % | Assume 1% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | zone 2a: F27-F29, | No. of working days per month, d | 26 | days | |
| | F31-F35 | No. of working hours per day, h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 2.39494E-06 | g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.9878E-07 | g/m²/s (mitigated) | |
| | | | | o/ | |
| | Wind Erosion | Percentage active area, p | 1 | % | |
| | Source ID: | Emission Factor | 0.85 | Mg/hectare/year | AP42, Table 11.9-4 |
| | zone 2a: F27-F29, | Emission Rate | 2.69533E-08 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 |
| | F31-F35 | | | o/ | |
| West Kowloon | Heavy construction | Percentage active area, p | 0.3 | % | Assume 0.3% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91./ | % | Water suppression 12 times a day |
| | zone 2b: F19, F20, | No. of working days per month, d | 26 | days | |
| | F23-F25 | INO. OF WORKING HOURS per day, n | 12 | nour | AD40. Contine 10.0.0.0 |
| | | Emission Pate | 2.09 7 10402E 07 | mg/nectare/month of activity | AF42, 5000000//10000*d*b*c0*c0*p/100 |
| | | | 5 062/1E 08 | $g/m^2/s$ (mitigated) | |
| | | | 5.505412-00 | g/m/s (miligated) | |
| | Wind Frosion | Percentage active area p | 0.3 | % | |
| | Source ID: | Emission Factor | 0.85 | Mg/hectare/year | AP42. Table 11.9-4 |
| | zone 2b: F19. F20. | Emission Rate | 8.086E-09 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 |
| | F23-F25 | | 0.0002.00 | 9,,0 | |
| West Kowloon | Heavy construction | Percentage active area, p | 0.2 | % | Assume 0.2% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | zone 3: F8-F12 | No. of working days per month, d | 26 | days | |
| | | No. of working hours per day, h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 4.78989E-07 | g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 3.97561E-08 | g/m²/s (mitigated) | |
| | | | | | |
| | Wind Erosion | Percentage active area, p | 0.2 | % | |
| | Source ID: | Emission Factor | 0.85 | Mg/hectare/year | AP42, Table 11.9-4 |
| | zone 3: F8-F12 | Emission Rate | 5.39066E-09 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 |
| | | | | | |
| West Kowloon | Heavy construction | Percentage active area, p | 17 | % | Assume 17% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | zone4: F7 | No. of working days per month, d | 26 | days | |
| | | No. of working hours per day, h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/nectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 4.0714E-05 | g/m²/s (unmitigated) | =2.69°1000000/(10000°d°n°60°60)°p/100 |
| | | | 3.37920E-00 | g/m-/s (miligaled) | |
| | Wind Frosion | Percentage active area in | 17 | % | |
| | Source ID: | Emission Factor | 0.85 | Mg/hectare/year | AP42. Table 11.9-4 |
| | zone4: F7 | Emission Rate | 4.58206E-07 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 |
| | | | | | |
| | | | | | |
| West Kowloon | Heavy construction | Percentage active area in | 0.5 | % | Assume 0.5% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91 7 | % | Water suppression 12 times a day |
| | Great Park: F1-F6. | No. of working days per month. d | 26 | davs | |
| | F13-F18, F21-F22, | No. of working hours per day, h | 12 | hour | |
| | F26, F30 | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 1.19747E-06 | g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 9.93901E-08 | g/m²/s (mitigated) | |
| | Wind Exercise | | 0.5 | 0/ | |
| | Source ID: | Emission Eactor | 0.5 | % Ma/bectare/year | AP42 Table 11 9-4 |
| | Great Park: E1-E6 | Emission Bate | 1 34767E-08 | a/m ² /s | _0 85*1000000//10000*365*24*60*60*n/100 |
| | E13-E18 E21-E22 | | 1.34707 -00 | y/11-75 | =0.05 1000000/(10000 303 24 00 00) p/100 |
| | F26 F30 | | | | |
| Moot Keydaar | | Dereenters active area in | 100 | o/ | |
| Cultural District | Source ID: | Mitigation officiency | 100 | 70 0/ | Assume 100% works area for neavy construction |
| | FR1-FR5 | No of working days per month d | 91./ | /° davs | water suppression 12 times a day |
| | | No. of working days per month, u | 20 10 | hour | |
| | | Emission Factor | 2.69 | Ma/hectare/month of activity | AP42. Section 13.2.3.3 |
| | | Emission Rate | 0.000239494 | g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.9878E-05 | g/m²/s (mitigated) | |
| | | | | | |
| | Wind Erosion | Percentage active area, p | 100 | | |
| | Source ID: | | 0.85 | lvig/nectare/year | |
| | LB1-LB2 | Emission Rate | ∠.69533E-06 | g/III ⁻ /S | =0.65 1000000/(10000"365"24"60"60)"p/100 |
| XRI - West | Haul road to barging | Particle size multiplier k | 3 23 | a/VKT | AP-42. Section 13.2.1 Table 13.2.1-1 .01/11 ed |
| Kowloon Barging | points | Road surface silt loading. sl | 8.2 | g/m2 | Mean Silt Loading of Quarry, AP-42. Section 13.2.1. Table 13.2.1- |
| Point (Construction | | | 0.2 | Ĭ | 3, 01/11 ed. |
| Site) | | | | | Uncontrolled total loading range from 4.2+1.9g/m2. for a mixture of |
| , | | | | | sand and native soil, to 11.0+3.8g/m2 for native soil alone. Page |
| 1 | | | | | 10 of Improved Activity Levels for National Emission Inventories of |
| | | | | | Fugitive Dust from Paved and Unpaved Roads. |
| | | Average truck weight W | 10 | tons | Average weigh of the vehicles traveling the road, extracted from |
| | | AVERAGE HUCK WEIGHL, W | 10 | | SP License |
| | | TSP emission factor, E | 370.7 | g/VKT | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | No. of truck trips per day | | | Extracted from SP License of Express Rail Link (Appendix C) |
| | | | 900 | veh/day | For road HR7A-C |
| | | | 1800 | veh/day | For road HR8A-B |
| | | | 1440 | veh/day | For road HK9 |
| | | | 1080 | ven/day | For road HR1UA-C |
| | | | 720 | ven/day | For road HR11 |
| | | | 360 | ven/uay | From 7:00 to 19:00, extracted from SP License of Express Pail |
| | | No. of operation hour | 12 | hr | Link (Appendix C) |
| | | % of dust suppression | 97.5 | % | Extracted from SP License of Express Rail Link (Appendix C) |
| | Source ID: | Emission Rate | | | |
| | | | | | |

| Works Area | Sources | | Parameter | | Remarks |
|---------------------|---------------------|-------------------------------|-----------|---------------------|---|
| | HR7A-C | | 4 755 16 | a/m/s (mitigated) | No. of truck per day: 900, extracted from SP License of Express |
| | | | 4.750-10 | g/m/s (miligaled) | Rail Link (Appendix C) |
| | HR8A-B | | | g/m/s (mitigated) | No. of truck per day: 1800, extracted from SP License of Express |
| | | | 0.40E 10 | g/m/s (miligated) | Rail Link (Appendix C) |
| | HR9 | | 7 59E-16 | g/m/s (mitigated) | No. of truck per day: 1440, extracted from SP License of Express |
| | | | 1.002 10 | g, m, o (miligatod) | Rail Link (Appendix C) |
| | HR10A-C | | 5.70E-16 | g/m/s (mitigated) | No. of truck per day: 1080, extracted from SP License of Express |
| | | | | g,, e () | Rail Link (Appendix C) |
| | нкіі | | 3.80E-16 | g/m/s (mitigated) | No. of truck per day: /20, extracted from SP License of Express |
| | | | | | Rall LINK (Appendix C) |
| | | | 1.90E-16 | g/m/s (mitigated) | Roi Link (Appondix C) |
| | | | | | |
| XBL - West | Unloading of spoils | | 4.27E-03 | g/s (mitigated) | Extract from SP License of Express Bail Link (Appendix C). |
| Kowloon Barging | to barge | | 00 | g, o (| assume 12 hours of operation |
| Point (5 Barging | Source ID: BP4-7 | | | | |
| Points for West | | | | | |
| Kowloon Terminus | | | | | |
| Works Area) | | | | | |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| (Construction Site) | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | | 30.8 | tons | Full loading of Concrete Mixer |
| | | No. of truck trips per day | 12 | veh/hr | Aggregate Ipper Iruck |
| | | | 2 | veh/hr | Cement Tanker |
| | | | 6 | veh/hr | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP11 | | 1.63E-04 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.002 01 | g, m, o (miligatod) | concrete mixer are 12, 2, and 6 veh/hr respectively. |
| | EP12 | | 1.42E-04 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | 5540 | | | g,, e (| concrete mixer are 12, 0, and 6 veh/hr respectively. |
| | EP13 | | 6.35E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| West Kawleen | Doved houl read | | | | concrete mixer are 0, 2, and 6 ven/nr respectively. |
| Terminus Concrete | Paved naul road | | | | All calculations and assumptions are extracted from SP |
| Ratching Plant | batching plant - | Particle size multiplier, k | 3 23 | aWKT | ΔP_{-42} Section 13.2.1 Table 13.2.1.1 01/11 ed |
| Batoning Flant | batoning plant | Boad surface silt loading sl | 12 | g/m2 | AP-42 Section 13.2.1 Table 13.2.1-3 01/11 ed |
| | For Laden Vehicle | Average truck weight. W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | | 30.8 | tons | Full loading of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 1199 | g/VKT | Aggregate Tpper Truck |
| | | | 1505 | g/VKT | Cement Tanker |
| | | | 1022 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP14 | | 8.36E-06 | g/m/s (mitigated) | No. of venicle of aggregate tipper truck, cement tanker and |
| | ED15 | | | | Concrete mixer are 0, 2, and 0 ven/nr respectively. |
| | EF 15 | | 4.00E-05 | g/m/s (mitigated) | concrete mixer are 12.0, and 0 veh/br respectively |
| | FP16 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.70E-05 | g/m/s (mitigated) | concrete mixer are 0, 0, and 6 veh/hr respectively |
| | FP17 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 8.52E-06 | g/m/s (mitigated) | concrete mixer are 0. 0. and 3 veh/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| (Construction Site) | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Tpper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | 57.5 | / | Sum of omission rate of aggregate tipper truck, compatibulity and |
| | | | | | concrete mixer |
| | | | | | |
| | | | 6.12E-05 | g/m/s (mitigated) | INO. OF VERICLE OF AUGGREGATE TIPPER TRUCK, CEMENT TANKER and |
| | | | _ | / | Concrete mixer are 12, 2, and 6 ven/nr respectively. |
| | | | 5.44E-05 | g/m/s (mitigated) | concrete mixer are 12.0, and 6 vob/br respectively |
| | EP20 | | | | No. of vehicle of addregate tinner truck cement tanker and |
| | | | 2.31E-05 | g/m/s (mitigated) | concrete mixer are 0. 2. and 6 veh/hr respectively |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | within concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| (Construction Site) | | Road surface silt loading. sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3. 01/11 ed. |
| Í Í | For Unladen Vehicle | Average truck weight. W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | <u> </u> | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | a/VKT | Aggregate Toper Truck |
| | | | 401 | | Cement Tanker |
| | | | 491 | | Concrete Mixer |
| | 1 | | 391 | 19/ V T I | |

West Kowloon Cultural District

| Works Area | Sources | | Parameter | | Remarks |
|-----------------------------------|--|------------------------------------|---------------------------|--|--|
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. |
| | EP21 | | 2.73E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP22 | | 1.52E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP23 | | 3.26E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 3 veh/hr respectively. |
| West Kowloon Terminus Concrete | Unloading aggregate Source ID: EP9- | Consumption Rate | 272000 272 | kg/h Mg/h | Extracted from SP License of Express Rail Link (Appendix C). |
| Batching Plant | EP10 | Particle size multiplier, k | 0.74 | | For TSP, AP-42, section 13.2.4, 11/06 ed. |
| (Unioading of raw | | Moisture content, M | 2 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| materialoj | | Mean wind speed, U | 3.5 | m/s | PATH Year 2010 mean wind speed |
| | | Emission Factor, E | 0.002165163 | kg/Mg | E=K X (0.0016) X ((U/2.2)^1.3/(M/2)^1.4) (AP-42, section 13.2.4, 11/06 ed.) |
| | | | 0.588924442 | kg/hr | (|
| | | Mitigation efficiency | 99 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| | | Emission Rate | 1.64E-03 | g/s (mitigated) | |
| West Kowloon | Small Cementitious | TSP emission factor | 30 | mg/m3 | All calculations and assumptions are extracted from SP |
| Batching Plant | Material Silos Source ID: EP5-EP8 | Dust extraction flow rate for each | 1300 | m3/hr | License of Express Rail Link (Appendix C). |
| (Cement / PFA | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Silos) | | No. of small cement silos | 4 | | |
| | | Emission height | 21 or 22 | | EP5: 21m, EP6-EP8: 22m |
| | | Emission Rate | 1.08E-02 | g/s (mitigated) | |
| | PFA weight Hopper | Production rate | 160 | m3/hr | All calculations and assumptions are extracted from SP |
| | Source ID: EP3-EP4 | Density | 0.001989 | mg/m3 | License of Express Rail Link (Appendix C). |
| | | Emission Factor | 2.60E-03 | kg/Mg | Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, 6/06 ed. |
| | | Emission Rate | 2.30E-04 | g/s (mitigated) | |
| West Kowloon | Mixer Source ID: | TSP emission factor | 40 | mg/m3 | All calculations and assumptions are extracted from SP |
| Terminus Concrete | EPT-EP2 | No. of operation hour | 1500 | hr | From 7:00 to 19:00 |
| (Mixing Tower) | | No. of small cement silos | 2 | | |
| (3) | | Emission height | 13 | | |
| Meet Kewleen | | Emission Rate | 1.67E-02 | g/s (mitigated) | |
| Cultural District | Source ID: | Mitigation efficiency | 91 7 | % % | Water suppression 12 times a day |
| | zone 1: F36 | No. of working days per month, d | 26 | days | |
| | | No. of working hours per day, h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 2.39494E-06 1.9878E-07 | g/m²/s (unmitigated) g/m²/s (mitigated) | =2.69°1000000/(10000°d°n°60°60)°p/100 |
| | Wind Frosion | Percentage active area in | 1 | × | |
| | Source ID: | Emission Factor | 0.85 | Mg/hectare/year | AP42, Table 11.9-4 |
| | zone 1: F36 | Emission Rate | 2.69533E-08 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 |

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| Works Area | Sources | | Parameter | | Remarks |
|---------------------|--|----------------------------------|--------------|-----------------------------------|---|
| West Kowloon | Heavy construction | Percentage active area, p | 3 | % | Assume 3% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | Zone 2a: H27-H30 | No. of working days per month, d | 26 | davs | |
| | 20110 20.1127 1100 | No. of working hours per day, h | 12 | hour | |
| | | Emission Eactor | 2 69 | Ma/hectare/month of activity | AP42 Section 13233 |
| | | Emission Bate | 7 18483E-06 | g/m²/s (unmitigated) | $=2.69^{100000/(10000^{*}d*h*60*60)*p/100}$ |
| | | | 5.96341E-07 | g/m²/s (mitigated) | |
| | | | | 3 (3 | |
| | Wind Erosion | Percentage active area, p | 3 | % | |
| | Source ID: | Emission Factor | 0.85 | Mg/hectare/vear | AP42. Table 11.9-4 |
| | Zone 2a: H27-H30 | Emission Rate | 8.086E-08 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 |
| | | | | 5 | |
| West Kowloon | Heavy construction | Percentage active area, p | 1 | % | Assume 1% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | zone 2b: H21-H26 | No. of working days per month, d | 26 | days | |
| | | No. of working hours per day, h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 2.39494E-06 | g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.9878E-07 | g/m²/s (mitigated) | |
| | | _ | | | |
| | Wind Erosion | Percentage active area, p | 1 | % | |
| | Source ID: | Emission Factor | 0.85 | Mg/hectare/year | AP42, I able 11.9-4 |
| | zone 20: H21-H26 | Emission Rate | 2.69533E-08 | g/m²/s | =0.85^1000000/(10000^365^24^60^60)^p/100 |
| West Kauda an | | Demonstration and a | | <u></u> | Assume 0.00% were and fair to any source traction |
| West Kowloon | Heavy construction | Percentage active area, p | 0.2 | % | Assume 0.2% works area for heavy construction |
| Guilural District | Source ID: | Ne of working days nor month d | 91.7 | % dove | water suppression 12 times a day |
| | 20118 3. 131-134 | No. of working bays per month, d | 20 | bour | |
| | | Emission Easter | 2 60 | Ma/bostara/month of activity | AP42 Section 13 2 3 3 |
| | | Emission Pato | 4 78080E 07 | a/m ² /c (unmitigated) | -2 60*100000//10000*d*b*60*60)*p/100 |
| | | | 3 97561 E-08 | g/m/s (uninitigated) | |
| | | | 0.070012 00 | g/m/s (miligated) | |
| | Wind Frosion | Percentage active area in | 0.2 | % | |
| | Source ID: | Emission Eactor | 0.85 | Mg/hectare/year | AP42 Table 11 9-4 |
| | zone 3: H31-H34 | Emission Bate | 5.39066E-09 | a/m²/s | -0.85*1000000/(10000*365*24*60*60)*p/100 |
| | 2010 0.1101 1104 | | 0.000002 00 | 9/11/3 | |
| West Kowloon | Heavy construction | Percentage active area p | 4 | % | Assume 4% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | zone 4: H9-H12. | No. of working days per month. d | 26 | davs | |
| | H35 | No. of working hours per day. h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 9.57977E-06 | g/m²/s (unmitigated) | =2.69 [*] 1000000/(10000*d*h*60*60)*p/100 |
| | | | 7.95121E-07 | g/m²/s (mitigated) | |
| | | | | | |
| | Wind Erosion | Percentage active area, p | 4 | % | |
| | Source ID: | Emission Factor | 0.85 | Mg/hectare/year | AP42, Table 11.9-4 |
| | zone 4: H9-H12, | Emission Rate | 1.07813E-07 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 |
| | H35 | | | | |
| | | | | | |
| | | | | | |
| West Kowloon | Heavy construction | Percentage active area, p | 2 | % | Assume 2% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | zone 5: H3, H17, | No. of working days per month, d | 26 | days | |
| | H20 | No. of working hours per day, h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/nectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 4.78989E-06 | g/m²/s (unmiligated) | =2.69 1000000/(10000 a n 60 60) p/100 |
| | | | 3.97501E-07 | g/m-/s (miligaled) | |
| | Wind Frosion | Percentage active area in | 2 | % | |
| | Source ID: | Emission Factor | 0.85 | Mg/hectare/year | AP42, Table 11,9-4 |
| | zone 5: H3. H17. | Emission Rate | 5.39066E-08 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 |
| | H20 | | | 3 | |
| West Kowloon | Heavy construction | Percentage active area, p | 2 | % | Assume 2% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | Great Park: H1-H2, | No. of working days per month, d | 26 | days | |
| | H4-H8, H13-H16, | No. of working hours per day, h | 12 | hour | |
| | H18-H19, H36-H45 | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 4.78989E-06 | g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 3.97561E-07 | g/m²/s (mitigated) | |
| | | | | o/ | |
| | Wind Erosion | Percentage active area, p | 2 | % | |
| | Source ID: | Emission Factor | 0.85 | Mg/hectare/year | AP42, I able 11.9-4 |
| | Great Park: H1-H2, | Emission Rate | 5.39066E-08 | g/m²/s | =0.85°1000000/(10000°365°24°60°60)°p/100 |
| | 114-110, 113-1116, 118-110 106 1145 | | | | |
| | יוויסיווי, חטט-ח4ט, הויסיווי | | | | |
| West Kowloon | Heavy construction | Percentage active area, p | 100 | % | Assume 100% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | HB1-HB5 | No. of working days per month, d | 26 | days | |
| | | No. of working hours per day, h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 0.000239494 | g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.9878E-05 | g/m²/s (mitigated) | |
| | Wind Fracian | Dereenters setting and a | 100 | ٥/ | |
| | | Fercentage active area, p | 100 | % Ma/bectaro/voor | AP/2 Table 11 9-4 |
| | | Emission Rate | 2 605225 00 | nyy/nectare/year a/m²/s | ∩ +2, 1 aut 11.3-4 -0 85*100000//10000*365*34*60*60*∽/100 |
| | 001-101 | | 2.09000E-06 | y/117/5 | -0.03 Ι00000/(10000 303 24 00 00) μ/100 |
| West Kowloon | Paved haul road | 1 | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| (Construction Site) | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | | 30.8 | tons | Full loading of Concrete Mixer |
| | | No. of truck trips per day | 12 | veh/hr | Aggregate Tpper Truck |
| | | - | 2 | veh/hr | Cement Tanker |

| Works Area | Sources | Parameter | | | Remarks |
|---------------------|---------------------|-------------------------------|------------------|-------------------------|---|
| | | | 6 | veh/hr | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | CBH1-CBH4 | | 1.63E-04 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Bail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| 3 | 31 | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | | 30.8 | tons | Full loading of Concrete Mixer |
| | | TSP emission factor, E | 1100 | - 0.02 | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 1199 | | Aggregate Tpper Truck |
| | | | 1022 | | Concrete Mixer |
| | | No. of truck trips per day | 022 | yeh/hr | Aggregate Toper Truck |
| | | | 2 | veh/hr | Cement Tanker |
| | | | 0 | veh/hr | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | | Emission Rate | 0.00E+00 | g/m/s (mitigated) | Aggregate Tipper Truck |
| | | | 8.36E-06 | g/m/s (mitigated) | Cement Lanker |
| | Source ID: | Sum of Emission Bate | 0.00E+00 | g/m/s (miligaled) | Concrete Mixer |
| | | Sum of Emission nate | | | concrete mixer |
| | EP14 | | 0 00 - 00 | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 8.36E-06 | g/m/s (mitigated) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP15 | | | a/m/a (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 4.00⊏-05 | g/m/s (miligaleu) | concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP16 | | 1.70E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | 5017 | | | 9,, o () | concrete mixer are 0, 0, and 6 veh/hr respectively. |
| | EP17 | | 8.52E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Bail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | a/VKT | AP-42. Section 13.2.1. Table 13.2.1-1. 01/11 ed. |
| (Construction Site) | parter in g plant | Road surface silt loading, sl | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| (, | For Unladen Vehicle | Average truck weight. W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Tpper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | CBX1-CBX4 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 6.12E-05 | g/m/s (mitigated) | concrete mixer are 12, 2, and 6 veh/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | within concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| (Construction Site) | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | TCD emission factor. E | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | 457 | ~ \ /// T | E=K X (SL)^0.91X (W)^1.02 (AP-42, Section 13.2.1, 01/11 ed.) |
| | | | 457 | | Aggregate Tpper Truck |
| | | | 491 | | |
| | | | 391 | g/ vr i | Concrete Mixer |
| | | No. of truck trips per day | | | Extracted from Specified Processes License (checked on 13 Jan |
| | | | n | veh/hr | Aggregate Toper Truck |
| | | | 2 | veh/hr | Coment Tanker |
| | | | 2 | veh/hr | Concrete Mixer |
| | | No. of operation have | 10 | br | From 7:00 10:00 |
| | | | 12 | 0/ | 110117.00-19.00 |
| | | mission Pato | 99.0 | /o a/m/s (mitigated) | Aggregate Tipper Truck |
| | | | 0.00L+00 | g/m/s (mitigated) | Compat Tanker |
| | | | | g/m/s (mitigated) | Concrete Miver |
| | Source ID: | Sum of Emission Pato | 0.00E+00 | g/m/s (miligaled) | |
| | | | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | FRA | | | | |
| | EP21 | | 2.73E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | EP22 | | | | concrete mixer are 0, 2, and 0 ven/hr respectively. |
| | | | 1.52E-05 | g/m/s (mitigated) | concrete mixer are 12 0 and 0 veh/hr respectively |
| | EP23 | | ~ - | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | 0 | | 3.26E-06 | g/m/s (mitigated) | concrete mixer are 0, 0, and 3 veh/hr respectively. |
| West Kowloon | Unloading aggregate | Consumption Rate | 272000 | kg/h | |
| Terminus Concrete | Source ID: EP9 | | 272 | Mg/h | Extracted from SP License of Express Rail Link (Appendix C). |
| Batching Plant | | Particle size multiplier, k | 0.74 | | For TSP, AP-42, section 13.2.4, 11/06 ed. |
| (Unloading of raw | | Moisture content, M | 2 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| materials) | | Mean wind speed, U | 3.5 | m/s | PATH Year 2010 mean wind speed |
| | | Emission Factor E | 0 002165162 | ka/Ma | E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4) |
| | | | 5.002100100 | | (AP-42, section 13.2.4, 11/06 ed.) |
| | | | 0.588924442 | kg/hr | |
| | | Mitigation efficiency | 99 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| | | Emission Rate | 1.64E-03 | g/s (mitigated) | |

West Kowloon Cultural District

| Works Area | Sources | Parameter | | | Remarks | |
|-------------------------------------|--------------------------------------|--|----------|-----------------|--|--|
| West Kowloon | Small Cementitious | TSP emission factor | 30 | mg/m3 | All calculations and assumptions are extracted from SP | |
| Terminus Concrete Batching Plant | Material Silos Source ID: EP5-EP8 | Dust extraction flow rate for each mixer | 1300 | m3/hr | License of Express Rail Link (Appendix C). | |
| (Cement / PFA | | No. of operation hour | 12 | hr | From 7:00 to 19:00 | |
| Silos) | | No. of small cement silos | 4 | | | |
| | | Emission height | 21 or 22 | | EP5: 21m, EP6-EP8: 22m | |
| | | Emission Rate | 1.08E-02 | g/s (mitigated) | | |
| | PFA weight Hopper | Production rate | 160 | m3/hr | All calculations and assumptions are extracted from SP | |
| | Source ID: EP3-EP4 | Density | 0.001989 | mg/m3 | License of Express Rail Link (Appendix C). | |
| | | Emission Factor | 2.60E-03 | kg/Mg | Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, 6/06 ed. | |
| | | Emission Rate | 2.30E-04 | g/s (mitigated) | | |
| West Kowloon | Mixer Source ID: | TSP emission factor | 40 | mg/m3 | All calculations and assumptions are extracted from SP | |
| Terminus Concrete | EP1-EP2 | Dust extraction flow rate for each | 1500 | m3/hr | License of Express Rail Link (Appendix C). | |
| Batching Plant | | No. of operation hour | 12 | hr | From 7:00 to 19:00 | |
| (Mixing Tower) | | No. of small cement silos | 2 | | | |
| | | Emission height | 13 | | | |
| | | Emission Rate | 1.67E-02 | g/s (mitigated) | | |

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| Works Area | Sources | | Parameter | | Remarks |
|---------------------|---|----------------------------------|-------------|-----------------------------------|--|
| West Kowloon | Heavy construction | Percentage active area, p | 6 | % | Assume 6% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | zone 2a: I25 | No. of working days per month, d | 26 | davs | |
| | | No. of working hours per day, h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 1.43697E-05 | g/m ² /s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.19268E-06 | g/m ² /s (mitigated) | |
| | | | | g,,e (gatea) | |
| | Wind Frosion | Percentage active area in | 6 | % | |
| | Source ID: | Emission Eactor | 0.85 | // Ma/bectare/vear | AP12 Table 11 9-1 |
| | 3000 Ce 1D. | Emission Pate | 1 61725 07 | | 0.95*1000000//10000*265*24*60*60*>/100 |
| | 20110 20. 125 | LINISSION Hale | 1.01/2L-0/ | g/111-/S | =0.83 1000000/(10000 383 24 00 00) p/100 |
| | | | | | |
| | | | | | |
| West Kowloon | Heavy construction | Percentage active area, p | 1 | % | Assume 1% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91./ | % dave | water suppression 12 times a day |
| | zone 2b: 122-124 | No. of working bours per day h | 120 | bour | |
| | | Emission Factor | 2 69 | Mg/hectare/month of activity | AP42 Section 13 2 3 3 |
| | | Emission Rate | 2.39494E-06 | $q/m^2/s$ (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.9878E-07 | g/m²/s (mitigated) | |
| | | - | | | |
| | Wind Erosion | Percentage active area, p | 1 | % | |
| | Source ID: | Emission Factor | 0.85 | Mg/hectare/year | AP42, 1 able 11.9-4 |
| | zone 2b: l22-l24 | Emission Rate | 2.09033E-00 | g/m-/s | =0.85 1000000/(10000 365 24 60 60) p/100 |
| West Kowloon | Heavy construction | Percentage active area in | 2 | 0/_ | Assume 2% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| Outural District | zone 1: 110-112 | No. of working days per month. d | 26 | davs | |
| | 20110 4. 110-112 | No. of working hours per day, h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 4.78989E-06 | g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 3.97561E-07 | g/m ² /s (mitigated) | |
| | | | | 2/ | |
| | Wind Erosion | Fercentage active area, p | 2 | Na/bostare/veer | |
| | Source ID: | Emission Factor | | Mg/nectare/year | AP42, 1 able 11.9-4 |
| | zone 4: 110-112 | Emission Rate | 5.39000E-00 | g/m-/s | =0.85 1000000/(10000 365 24 60 60) p/100 |
| West Kowloon | Heavy construction | Percentage active area in | 1 | % | Assume 1% works area for heavy construction |
| Cultural District | Source ID. | Mitigation efficiency | 91.7 | /° % | Water suppression 12 times a day |
| Outural District | zone 5: 13 118 121 | No. of working days per month. d | 26 | davs | |
| | 20110 5. 10, 110, 121 | No. of working hours per day, h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 2.39494E-06 | g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.9878E-07 | g/m ² /s (mitigated) | |
| | | | | o/ | |
| | Wind Erosion | Percentage active area, p | 1 | % | |
| | Source ID: | Emission Factor | | Mg/nectare/year | AP42, 1 able 11.9-4 |
| | zone 5: I3, I18, I21 | Emission Rate | 2.69533E-08 | g/m²/s | =0.85 1000000/(10000 365 24 60 60) p/100 |
| West Kowloon | Heavy construction | Percentage active area in | 2 | % | Assume 2% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| Sultaral District | Great Park: 11-12 14- | No. of working days per month, d | 26 | days | |
| | 19 113-117 119-120 | No. of working hours per day, h | 12 | hour | |
| | , | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 4.78989E-06 | g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 3.97561E-07 | g/m²/s (mitigated) | |
| | Wind Fracian | Porcontago activo area, p | 2 | 0/ | |
| | Source ID: | Emission Factor | 0.85 | /o Ma/hectare/year | AP42 Table 11 9-4 |
| | Groot Bark: 11.12.14 | Emission Rate | 5.39066E-08 | a/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 |
| | 10 112 117 110 120 | | | a,, a | |
| West Kewleen | 19, 110-117, 119-120 | Deveentere estive even r | 100 | 0/ | Aggume 100% works area for begun construction |
| West Kowloon | Heavy construction | Mitigation efficiency | 91 7 | 70 0/_ | Water suppression 12 times a day |
| Guitural District | | No of working days per month d | 26 | davs | |
| | 183-185 | No. of working hours per day. h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 0.000239494 | g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.9878E-05 | g/m²/s (mitigated) | |
| | | | | - / | |
| | Wind Erosion | Percentage active area, p | 100 | % | |
| | Source ID: | Emission Factor | | Mg/nectare/year | AP42, 1 able 11.9-4 |
| | IB3-IB5 | Emission Rate | 2.09033E-00 | g/m-/s | =0.85 1000000/(10000 365 24 60 60) p/100 |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Bail Link (Appendix C) |
| Batching Plant | batching plant - | Particle size multiplier k | 3.23 | a/VKT | AP-42, Section 13.2.1. Table 13.2.1-1.01/11 ed |
| (Construction Site) | Sara and Sar | Boad surface silt loading of | 10 | g/m2 | AP-42 Section 13.2.1 Table 13.2.1-3.01/11 od |
| | For Laden Vehicle | Average truck weight W | 12 | tons | Full loading of Aggregate Tipper Truck |
| | | Average HUCK Weight, W | 30 | tone | Full loading of Coment Tanker |
| | | | 40 | tone | |
| | | No. of truck trips par day | 30.8 | veh/hr | Aggregate Toper Truck |
| | | no. or muck mps per day | 12 | | Compart Tanker |
| | | | 2 | | |
| | | | 6 | veh/hr | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | CBH1-CBH4 | | | a/m/a (mitiaatad) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.63E-04 | g/m/s (mitigateo) | concrete mixer are 12, 2, and 6 veh/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier. k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1. 01/11 ed. |
| | | Road surface silt loading, sl | 12 | g/m2 | AP-42, Section 13.2.1. Table 13.2.1-3. 01/11 ed |
| | For Laden Vehicle | Average truck weight W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | | 20 9 | tons | Full loading of Concrete Mixer |
| | | TSP emission factor F | 30.0 | | $F_{k} \times (sl)^{0} 91 \times (W)^{1} 02 (\Delta P_{-4}2)$ section 13.2.1 01/11 od) |
| | | | 1100 | a/VKT | Aggregate Toper Truck |
| | | | 1199 | | Cament Tanker |
| | | | 1005 | | Concrete Mixer |
| | | No. of truck trips par day | 1022 | yob/br | Aggregate Topor Truck |
| 1 | 1 | nio. or muck inps per day | 1 0 | v C I // I II | nyyieyale ippei illuur |

| Works Area | Sources | | Parameter | | Remarks |
|---------------------|---------------------|------------------------------------|----------------------|-------------------|---|
| | | | 2 | lveh/hr | Cement Tanker |
| | | No of operation hour | 0 | ven/nr | |
| | | % of dust suppression | 12 aa n | % | |
| | | Emission Rate | 0.00E+00 | g/m/s (mitigated) | Aggregate Tipper Truck |
| | | | 8.36E-06 | g/m/s (mitigated) | Cement Tanker |
| | | | 0.00E+00 | g/m/s (mitigated) | Concrete Mixer |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | EP1/ | | | | CONCRETE MIXER. |
| | | | 8.36E-06 | g/m/s (mitigated) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP15 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 4.00E-05 | g/m/s (mitigated) | concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP16 | | 1.70E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | 5017 | | | | concrete mixer are 0, 0, and 6 veh/hr respectively. |
| | EP17 | | 8.52E-06 | g/m/s (mitigated) | No. of venicle of aggregate tipper truck, cement tanker and |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| (Construction Site) | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Tpper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | CBX1-CBX4 | | 6 125-05 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 0.12E-03 | g/m/s (miligated) | concrete mixer are 12, 2, and 6 veh/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Ratching Plant | batching plant - | Particle size multiplier k | 3.23 | | AP-42 Section 13.2.1 Table 13.2.1-1 01/11 ed |
| (Construction Site) | batching plant - | Road surface silt loading sl | 12 | g/m2 | ΔP_{-42} , Section 13.2.1, Table 13.2.1-1, 01/11 ed |
| () | For Unladen Vehicle | Average truck weight W | 14 | | Unladen weight of Aggregate Tipper Truck |
| | | Average truck weight, w | 14 | | |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | TSP emission factor F | 12 | | $F_k \times (sl)^{0.91} \times (W)^{1.02} (\Delta P_4 2)$ section 13.2.1.01/11 ed.) |
| | | | 457 | | Aggregate Toper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | | | 9, | Extracted from Specified Processes License (checked on 13 Jan |
| | | No. of truck trips per day | | | 2012) |
| | | | 0 | veh/hr | Aggregate Tpper Truck |
| | | | 2 | veh/hr | Cement Tanker |
| | | | 0 | veh/hr | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | | Emission Rate | 0.00E+00 | g/m/s (mitigated) | Aggregate Tipper Truck |
| | | | 2.73E-06 | g/m/s (mitigated) | Cement Tanker |
| | | | 0.00E+00 | g/m/s (mitigated) | Concrete Mixer |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP21 | | 2 73E-06 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 2.702.00 | ginis (milgalou) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP22 | | 1.52E-05 | g/m/s (mitigated) | INO. OT VENICIE OT Aggregate tipper truck, cement tanker and |
| | FP23 | | | | No. of vehicle of aggregate tioner truck, coment tanker and |
| | | | 3.26E-06 | g/m/s (mitigated) | concrete mixer are 0, 0, and 3 veh/hr respectively. |
| West Kowloon | Unloading aggregate | Consumption Rate | 272000 | kg/h | |
| Terminus Concrete | Source ID: EP9 | | 272 | Mg/h | Extracted from SF License of Express Rail Link (Appendix C). |
| Batching Plant | | Particle size multiplier, k | 0.74 | - | For TSP, AP-42, section 13.2.4, 11/06 ed. |
| (Unioading of raw | | Moisture content, M | 2 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| materials | | Mean wind speed, U | 3.5 | m/s | PATH Year 2010 mean wind speed |
| | | Emission Factor, E | 0.002165163 | kg/Mg | $E=k \times (0.0016) \times ((U/2.2)^{1.3}/(M/2)^{1.4})$ |
| | | | 0 590004440 | ka/br | (AP-42, section 13.2.4, 11/06 ed.) |
| | | Mitigation efficiency | 0.000924442 | ~ | Extracted from SP License of Express Bail Link (Appendix C) |
| | | Emission Rate | 1.64F-03 | g/s (mitigated) | Extractor from or Election of Express than LINK (Appendix O). |
| West Kowloon | Small Cementitious | TSP emission factor | 30 | mg/m3 | |
| Terminus Concrete | Material Silos | Dust extraction flow rate for each | 1000 | m2/br | All calculations and assumptions are extracted from SP |
| Batching Plant | Source ID: EP5-EP8 | mixer | 1300 | | LICENSE OF LAPIESS RAILLINK (APPENDIX C). |
| (Cement / PFA | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Silos) | | No. of small cement silos | 4 | | |
| | | Emission hoight | 01 00 | | EP5: 21m EP6 EP9: 22m |
| | | Emission Rate | 21 UF 22 1 DBE 00 | a/s (mitigated) | LI J. ZIIII, LF U-LF 0. ZZIII |
| | PFA weight Hopper | Production rate | 1.000-02 | m3/hr | All calculations and assumptions are extracted from SD |
| | Source ID: EP3-EP4 | Density | 0 001020 | mg/m3 | License of Express Rail Link (Annendix C). |
| | | Emission Factor | 0.001909 | | Weight hopper loading, AP-42 section 11 12-4 Table 11 12-1 |
| | | | 2.60E-03 | kg/Mg | 6/06 ed. |
| | | Emission Rate | 2.30E-04 | g/s (mitigated) | |
| West Kowloon | Mixer Source ID: | TSP emission factor | 40 | mg/m3 | All calculations and assumptions are extracted from SP |
| Terminus Concrete | EP1-EP2 | Dust extraction flow rate for each | 1500 | m3/hr | License of Express Rail Link (Appendix C). |
| Batching Plant | | No. of operation hour | 12 | Inr | From 7:00 to 19:00 |
| (Mixing Lower) | | Fmission height | 10 | | |
| I | I | | 1 13 | .1 | I |

West Kowloon Cultural District

| Works Area | Sources | | Parameter | Remarks |
|-------------------|--------------------|----------------------------------|-----------------------------------|--|
| | | Emission Rate | 1.67E-02 g/s (mitigated) | |
| West Kowloon | Heavy construction | Percentage active area, p | 0 % | Assume 0% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 % | Water suppression 12 times a day |
| | zone 3: I26-I29 | No. of working days per month, d | 26 days | |
| | | No. of working hours per day, h | 12 hour | |
| | | Emission Factor | 2.69 Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 0 g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 0 g/m²/s (mitigated) | |
| | Wind Frosion | Percentage active area in | | |
| | Source ID: | Emission Eactor | 0.85 Mg/bectare/year | AP42 Table 11 9-4 |
| | zono 1: 126 120 | Emission Bate | | $-0.85^{1}00000/(10000^{3}65^{2}24^{6}60^{6}60)^{1}$ |
| | 20110 1.120-129 | | 0 9/11 / 3 | |

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| Works Area | Sources | | Parameter | | Remarks |
|---------------------|-----------------------|----------------------------------|-------------|-----------------------------------|---|
| West Kowloon | Heavy construction | Percentage active area, p | 1 | % | Assume 5% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | zone 2b: J22-J24 | No. of working days per month. d | 26 | davs | ···· ································· |
| | | No. of working hours per day. h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42. Section 13.2.3.3 |
| | | Emission Rate | 2.39494E-06 | g/m ² /s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.9878E-07 | $g/m^2/s$ (mitigated) | |
| | | | | g,,e (gatea) | |
| | Wind Frosion | Percentage active area in | 1 | % | |
| | Source ID: | Emission Eactor | 0.85 | Ma/bectare/vear | AP12 Table 11 9-1 |
| | zono 2h: 122 124 | Emission Pato | 2 605225 08 | a/m ² /c | _0 85*1000000//10000*265*24*60*60)*p/100 |
| | 20118 20. 322-324 | | 2.09000E-00 | g/11-/S | =0.85 1000000/(10000 385 24 80 80) p/100 |
| West Kowlean | Hoove construction | Dereentage estive eree n | 0 | 9/ | Assume 29/ works area for beauty construction |
| Cultural District | Reavy construction | Mitigation officional | 01 7 | 70 0/ | Water suppression 12 times a day |
| Guilural District | | No. of working dove nor month d | 91.7 | | Water suppression 12 times a day |
| | zone 4: J10-J12 | No. of working days per month, d | 26 | days | |
| | 100 105 | No. of working nours per day, n | 12 | nour | |
| | JB3-JB2 | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 4.78989E-06 | g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 3.97561E-07 | g/m²/s (mitigated) | |
| | | - | | | |
| | Wind Erosion | Percentage active area, p | 2 | % | |
| | Source ID: | Emission Factor | 0.85 | Mg/hectare/year | AP42, Table 11.9-4 |
| | zone 4: J10-J12 | Emission Rate | 5.39066E-08 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 |
| | | | | | |
| | JB3-JB5 | | | | |
| West Kowloon | Heavy construction | Percentage active area, p | 0.4 | % | Assume 0.4% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | zone 5: J3. J18. J21 | No. of working days per month. d | 26 | davs | |
| | , , | No. of working hours per day, h | 12 | hour | |
| | | Emission Eactor | 2.69 | Mg/hectare/month of activity | AP42, Section 13,2,3,3 |
| | | Emission Bate | 9 57977E-07 | $a/m^2/s$ (unmitidated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 7 95121E-08 | $a/m^2/s$ (mitigated) | |
| | | | 7.001212.00 | g/m/s (miligated) | |
| | Wind Fragion | Percentage active area in | 0.4 | % | |
| | Source ID: | Emission Easter | 0.4 | /o Ma/baatara/waar | AP42 Table 11.0.4 |
| | Jong 5: 12 119 121 | Emission Pata | 1 07012E 00 | a/m ² /o | A^{+}_{2} , $A^{$ |
| | 20110 3. 33, 310, 321 | | 1.070132-00 | g/11-/S | =0.85 1000000/(10000 385 24 80 80) p/100 |
| Wast Kowloon | Hoovy construction | Porcontago activo aroa, p | 1 | 0/ | Assume 1% works area for beaut construction |
| Cultural District | Reavy construction | Mitigation officional | 01 7 | 70 | Assume 1% works area for fleavy construction |
| Guilural District | Source ID: | | 91.7 | | water suppression 12 times a day |
| | Great Park: J1-J2, | No. of working days per month, d | 26 | days | |
| | J4-J9, J13-J17, J19, | No. of working nours per day, n | 12 | nour | |
| | J20 | Emission Factor | 2.69 | Mg/nectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 2.39494E-06 | g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.9878E-07 | g/m²/s (mitigated) | |
| | | - | | | |
| | Wind Erosion | Percentage active area, p | 1 | % | |
| | Source ID: | Emission Factor | 0.85 | Mg/hectare/year | AP42, Table 11.9-4 |
| | Great Park: J1-J2, | Emission Rate | 2.69533E-08 | g/m²/s | =0.85^1000000/(10000^365^24^60^60)^p/100 |
| | J4-J9, J13-J17, J19, | - | | | |
| West Kowloon | Heavy construction | Percentage active area, p | 100 | % | Assume 100% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | JB1-JB5 | No. of working days per month, d | 26 | days | |
| | | No. of working hours per day, h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 0.000239494 | g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.9878E-05 | g/m²/s (mitigated) | |
| | | | | | |
| | Wind Erosion | Percentage active area, p | 100 | % | |
| | Source ID: | Emission Factor | 0.85 | Mg/hectare/year | AP42, Table 11.9-4 |
| | JB1-JB5 | Emission Rate | 2.69533E-06 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 |
| | | | | | |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| (Construction Site) | | Road surface silt loading, sL | 12 | a/m2 | AP-42. Section 13.2.1. Table 13.2.1-3. 01/11 ed. |
| · , | For Laden Vehicle | Average truck weight W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | | 20 P | tons | Full loading of Concrete Mixer |
| | | No. of truck trips per day | 30.0 | veh/hr | Aggregate Toper Truck |
| | | into. Of those these per day | - 12 | | Comment Territor |
| | | | 2 | | |
| | | | 6 | veh/hr | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | CBH1-CBH4 | | | | No. of vehicle of aggregate tipper truck. cement tanker and |
| | | | 1.63E-04 | g/m/s (mitigatea) | concrete mixer are 12, 2, and 6 veh/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier. k | 3.23 | g/VKT | AP-42, Section 13.2.1. Table 13.2.1-1. 01/11 ed |
| | 0 12 10 10 | Road surface silt loading, sl | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Laden Vehicle | Average truck weight W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | ⊿5 | tons | Full loading of Cement Tanker |
| | | | 3U 8 | tons | Full loading of Concrete Mixer |
| | | TSP emission factor E | 50.0 | | $F = k x (sl)^{0.91} x (W)^{1.02} (AP-42 \text{ section } 13.2.1, 0.1/11 \text{ ed})$ |
| | | | 1100 | a//KT | An area ate Toper Truck $(\pi - \pi z, 3 = 0.011 + 0.2.1, 01/11 = 0.)$ |
| | | | 1199 | | Coment Tanker |
| | | | 1000 | | Concrete Mixer |
| | | No. of truck trips new day. | 1022 | yoh/br | Aggregate Teper Truck |
| | | ino. or muck inps per day | 0 | vel/m | Aggregate Tuplet Truck |
| | | | 2 | | |
| | | | 0 | veh/hr | |
| | | No. of operation hour | 12 | Inr | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | | Emission Rate | 0.00E+00 | g/m/s (mitigated) | Aggregate Tipper Truck |
| | | | 8.36E-06 | g/m/s (mitigated) | Cement Tanker |
| I | ļ | I | 0.00E+00 | g/m/s (mitigated) | Concrete Mixer |

| Works Area | Sources | | Parameter | | Remarks |
|---------------------------------------|------------------------|------------------------------------|-------------|--------------------|---|
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP14 | | 8.36E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | FP15 | | | | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | | | 4.00E-05 | g/m/s (mitigated) | concrete mixer are 12. 0. and 0 veh/hr respectively. |
| | EP16 | | | a/m/a (mitiactad) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.70E-05 | g/m/s (mitigated) | concrete mixer are 0, 0, and 6 veh/hr respectively. |
| | EP17 | | 8.52E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | Davis al la sud us a d | | 0.011 00 | g,,e (gatee) | concrete mixer are 0, 0, and 3 veh/hr respectively. |
| Terminus Concrete | Paved naul road | | | | License of Express Bail Link (Appendix C) |
| Batching Plant | batching plant - | Particle size multiplier. k | 3.23 | g/VKT | AP-42. Section 13.2.1. Table 13.2.1-1. 01/11 ed. |
| (Construction Site) | sale in g plant | Road surface silt loading, sL | 12 | g/m2 | AP-42. Section 13.2.1. Table 13.2.1-3. 01/11 ed. |
| , , , , , , , , , , , , , , , , , , , | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Tpper Truck |
| | | | 491 | | Cement Lanker |
| | | | 391 | g/VKT | |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | Source ID: | % of dust suppression | 97.5 | % | |
| | Source ID. | Sulli of Ellission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | CBX1-CBX4 | | 6.12E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | within concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| (Construction Site) | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | 453 | | E=K x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | | Aggregate Tpper Truck |
| | | | 491 | | Cement Lanker |
| | | | 391 | g/vki | Concrete Mixer |
| | | No. of truck trips per day | | | 2012) |
| | | | 0 | veh/hr | Aggregate Toper Truck |
| | | | 2 | veh/hr | Cement Tanker |
| | | | 0 | veh/hr | Concrete Mixer |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 99.0 | % | |
| | | Emission Rate | 0.00E+00 | g/m/s (mitigated) | Aggregate Tipper Truck |
| | | | 2.73E-06 | g/m/s (mitigated) | Cement Tanker |
| | | | 0.00E+00 | g/m/s (mitigated) | Concrete Mixer |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP21 | | 0.705.00 | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 2.73E-06 | g/m/s (mitigated) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP22 | | 1 52E-05 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | 5000 | | 1.022 00 | g, m, o (milgatod) | concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP23 | | 3.26E-06 | g/m/s (mitigated) | No. of venicle of aggregate tipper truck, cement tanker and |
| West Kowloon | I Inloading aggregate | Consumption Bate | 272000 | ka/h | concrete mixer are 0, 0, and 3 ven/mi respectively. |
| Terminus Concrete | Source ID: EP9 | Consumption nate | 272000 | Ma/h | Extracted from SP License of Express Rail Link (Appendix C). |
| Batching Plant | | Particle size multiplier k | 0.74 | ivig, iii | For TSP_AP-42_section 13.2.4_11/06 ed |
| (Unloading of raw | | Moisture content. M | 2 | % | Extracted from SP License of Express Bail Link (Appendix C). |
| materials) | | Mean wind speed, U | 3.5 | m/s | PATH Year 2010 mean wind speed |
| | | Emission Easter E | 0.000165160 | ka/Ma | E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4) |
| | | Emission Factor, E | 0.002165163 | Kg/Mg | (AP-42, section 13.2.4, 11/06 ed.) |
| | | | 0.588924442 | kg/hr | |
| | | Mitigation efficiency | 99 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| | | Emission Rate | 1.64E-03 | g/s (mitigated) | |
| West Kowloon | Small Cementitious | I SP emission factor | 30 | mg/m3 | All calculations and assumptions are extracted from SP |
| Batching Plant | Source ID: EP5-EP8 | mixer | 1300 | m3/hr | License of Express Rail Link (Appendix C). |
| (Cement / PFA | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| Silos) | | | | | |
| | | No. of small cement silos | 4 | | |
| | | Emission height | 21 or 22 | | EP5: 21m, EP6-EP8: 22m |
| | | Emission Rate | 1.08E-02 | g/s (mitigated) | |
| | PFA weight Hopper | Production rate | 160 | m3/hr | All calculations and assumptions are extracted from SP |
| | Source ID: EP3-EP4 | Density | 0.001989 | mg/m3 | License of Express Rail Link (Appendix C). |
| | | Emission Factor | 2.60E-03 | kg/Mg | Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, |
| | | Emission Pate | | a (pitigatad) | b/Ub ed. |
| West Kowloon | Mixer Source ID: | Emission rale | 2.30E-04 | y/s (miligated) | All calculations and assumptions are extracted from SD |
| Terminus Concrete | EP1-EP2 | Dust extraction flow rate for each | 40 | m3/hr | License of Express Rail Link (Appendix C). |
| Batching Plant | | No. of operation hour | 12 | hr | From 7:00 to 19:00 |
| (Mixing Tower) | | No. of small cement silos | 2 | | |
| - / | | Emission height | 13 | | |
| | | Emission Rate | 1.67E-02 | [g/s (mitigated) | |

| Works Area | Sources | | Parameter | | Remarks |
|---------------------|---------------------|----------------------------------|-------------|------------------------------|---|
| West Kowloon | Heavy construction | Percentage active area. p | 1 | % | Assume 1% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | zone 2b: K4-K6, K11 | No. of working days per month, d | 26 | days | |
| | K12 | No. of working hours per day, h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 2.39494E-06 | g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.9878E-07 | g/m²/s (mitigated) | |
| | | | | | |
| | Wind Erosion | Percentage active area, p | 1 | % | |
| | Source ID: | Emission Factor | 0.85 | Mg/hectare/year | AP42, Table 11.9-4 |
| | zone 2b: K4-K6, K11 | Emission Rate | 2.69533E-08 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 |
| | K12 | | | | |
| | | | | | |
| West Kowloon | Heavy construction | Percentage active area, p | 0.3 | % | Assume 0.3% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | zone 4: K7-K10 | No. of working days per month, d | 26 | days | |
| | | No. of working hours per day, h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 7.18483E-07 | g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 5.96341E-08 | g/m²/s (mitigated) | |
| | | | | | |
| | Wind Erosion | Percentage active area, p | 0.3 | % | |
| | Source ID: | Emission Factor | 0.85 | Mg/hectare/year | AP42, Table 11.9-4 |
| | zone 4: K/-K10 | Emission Rate | 8.086E-09 | g/m²/s | =0.85^1000000/(10000^365^24^60^60)^p/100 |
| West Kowloop | | Percentage estive area in | 0.2 | Q/ | Assume 0.2% works area for boowy construction |
| Cultural District | Source ID: | Mitigation officioney | 0.2 | 70 0/ | Water suppression 12 times a day |
| Guilurai District | 2000 5' K1-K3 | No of working days per month d | 26 | 70 davs | Water suppression 12 times a day |
| | 2016 5. 1(1-1(5 | No, of working hours per day h | 12 | bour | |
| | | Emission Factor | 2 69 | Ma/hectare/month of activity | AP42 Section 13 2 3 3 |
| | | Emission Rate | 4.78989E-07 | g/m²/s (unmitigated) | $=2.69^{1000000/(10000^*d^*h^*60^*60)*p/100}$ |
| | | | 3.97561E-08 | g/m²/s (mitigated) | |
| | | | | g, e (ge) | |
| | Wind Erosion | Percentage active area, p | 0.2 | % | |
| | Source ID: | Emission Factor | 0.85 | Mg/hectare/year | AP42, Table 11.9-4 |
| | zone 5: K1-K3 | Emission Rate | 5.39066E-09 | g/m²/s | =0.85*1000000/(10000*365*24*60*60)*p/100 |
| | | | | | |
| West Kowloon | Heavy construction | Percentage active area, p | 100 | % | Assume 100% works area for heavy construction |
| Cultural District | Source ID: | Mitigation efficiency | 91.7 | % | Water suppression 12 times a day |
| | KB3-KB5 | No. of working days per month, d | 26 | days | |
| | | No. of working hours per day, h | 12 | hour | |
| | | Emission Factor | 2.69 | Mg/hectare/month of activity | AP42, Section 13.2.3.3 |
| | | Emission Rate | 0.000239494 | g/m²/s (unmitigated) | =2.69*1000000/(10000*d*h*60*60)*p/100 |
| | | | 1.9878E-05 | g/m²/s (mitigated) | |
| | | | | | |
| | Wind Erosion | Percentage active area, p | 100 | % | |
| | Source ID: | Emission Factor | 0.85 | Mg/hectare/year | AP42, Table 11.9-4 |
| | KB3-KB5 | Emission Rate | 2.69533E-06 | g/m²/s | =0.85°1000000/(10000°365°24°60°60)°p/100 |
| West Kowloop | Poved haul read | | | | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | | | | License of Express Bail Link (Appendix C) |
| Concrete Batching | hatching plant - | Particle size multiplier k | 3 23 | a/VKT | AP-42 Section 13.2.1 Table 13.2.1-1 01/11 ed |
| Plant (Construction | balloning plant | Road surface silt loading st | 12 | g/m2 | ΔP_{-42} Section 13.2.1 Table 13.2.1.3 01/11 ed |
| Site) | For Laden Vehicle | Average truck weight W | 36 | tons | Full loading of Aggregate Tipper Truck |
| , | | | 45 | tons | Full loading of Aggregate Appel Adok |
| | | | 30.8 | tons | Full loading of Concrete Mixer |
| | | No. of truck trips per day | 12 | veh/hr | Aggregate Toper Truck |
| | | | 2 | veh/hr | Cement Tanker |
| | | | 6 | voh/hr | Concrete Mixer |
| | | No. of operation have | 0 | br | From 7:00 10:00 |
| | | | 12 | 0/ | 1 IUII / .UU-13.UU |
| | Source ID: | % of aust suppression | 97.5 | 70 | Sum of omission rate of approache times truck |
| | | Sum of Emission Rale | | | concrete mixer |
| | CBH1-CBH4 | | | | No of vehicle of addregate tinner truck coment tanker and |
| | | | 1.63E-04 | g/m/s (mitigated) | concrete mixer are 12. 2. and 6 veh/hr respectively |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | outside concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| Ī | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Laden Vehicle | Average truck weight, W | 36 | tons | Full loading of Aggregate Tipper Truck |
| | | | 45 | tons | Full loading of Cement Tanker |
| | | | 30.8 | tons | Full loading of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 1199 | g/VKT | Aggregate Tpper Truck |
| | | | 1505 | g/VKI | Cement Lanker |
| | | No. of two laters in the | 1022 | g/VKI | |
| | | NO. OF TRUCK TRIPS PER DAY | 0 | ven/nr | Aggregate ipper iruck |
| | | | 2 | ven/m | Centent Tanker |
| | | No. of operation hour | 0 | br | |
| | | % of dust suppression | 12 | 0/2 | 110117.00-13.00 |
| | | Emission Rate | 0 00E - 00 | g/m/s (mitigated) | Aggregate Tipper Truck |
| | | | 8.36F-06 | g/m/s (mitigated) | Cement Tanker |
| | | | 0.00E-00 | g/m/s (mitigated) | Concrete Mixer |
| | Source ID: | Sum of Emission Rate | 0.00L+00 | S C (| Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP14 | | 0.007.55 | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 8.36E-06 | g/m/s (mitigated) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP15 | | | a/m/a (miticated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 4.00E-05 | ym/s (miligaleu) | concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP16 | | 1 705 05 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.700-05 | grinis (miligaleu) | concrete mixer are 0, 0, and 6 veh/hr respectively. |

| Works Area | Sources | | Parameter | | Remarks |
|-------------------------|-----------------------|------------------------------------|-------------|----------------------|--|
| | EP17 | | 8.52E-06 | g/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 0.011 00 | g,, o (| concrete mixer are 0, 0, and 3 veh/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Cultural District | outside concrete | Portiala aiza multipliar k | 2.02 | ~\///T | AD 40 Section 12.0.1 Table 12.0.1.1 01/11 ed |
| Plant (Construction | batching plant - | Particle size multiplier, k | 3.23 | | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 eu. |
| Site) | For I Inladen Vehicle | Road surface slit loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| 01(0) | | Average truck weight, w | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 10 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor F | 12 | | $E_k \times (cl)^{0} $ 91x (W)^1 02 (AP-42 section 13.2.1, 01/11 ed.) |
| | | | 457 | | $L=R \times (SL) = 0.91\times (W) = 1.02 (AI = 42, Section = 13.2.1, 01/11 ed.)$ |
| | | | 437 | | Aggregale Tpper Truck |
| | | | 491 | g/vki | |
| | | | 391 | g/VK1 | |
| | | No. of operation hour | 12 | hr | From 7:00-19:00 |
| | | % of dust suppression | 97.5 | % | |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | CBX1-CBX4 | | | | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 6.12E-05 | g/m/s (mitigated) | concrete mixer are 12, 2, and 6 veh/hr respectively. |
| West Kowloon | Paved haul road | | | | All calculations and assumptions are extracted from SP |
| Terminus Concrete | within concrete | | | | License of Express Rail Link (Appendix C). |
| Batching Plant | batching plant - | Particle size multiplier, k | 3.23 | g/VKT | AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. |
| (Construction Site) | | Road surface silt loading, sL | 12 | g/m2 | AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. |
| | For Unladen Vehicle | Average truck weight, W | 14 | tons | Unladen weight of Aggregate Tipper Truck |
| | | | 15 | tons | Unladen weight of Cement Tanker |
| | | | 12 | tons | Unladen weight of Concrete Mixer |
| | | TSP emission factor, E | | | E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) |
| | | | 457 | g/VKT | Aggregate Tpper Truck |
| | | | 491 | g/VKT | Cement Tanker |
| | | | 391 | g/VKT | Concrete Mixer |
| | | | | - | Extracted from Specified Processes License (checked on 13 Jan |
| | | No. of truck trips per day | | | 2012) |
| | | | 0 | veh/hr | Aggregate Tpper Truck |
| | | | 2 | veh/hr | Cement Tanker |
| | | | 0 | veh/hr | Concrete Mixer |
| | | No. of operation hour | 12 | br | From $7:00-19:00$ |
| | | % of duct suppression | 00.0 | 9/ | 110117.00-19.00 |
| | | Finission Rate | 0.005.00 | a/m/a (mitigated) | Aggregate Tipper Truck |
| | | | | g/m/s (mitigated) | |
| | | | 2.73E-06 | g/m/s (mitigated) | |
| | | | 0.00E+00 | g/m/s (mitigated) | Concrete Mixer |
| | Source ID: | Sum of Emission Rate | | | Sum of emission rate of aggregate tipper truck, cement tanker and |
| | | | | | concrete mixer. |
| | EP21 | | 0.725.06 | a/m/a (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 2.73E-00 | g/m/s (miligaled) | concrete mixer are 0, 2, and 0 veh/hr respectively. |
| | EP22 | | 1 52E-05 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | | | 1.522-05 | g/m/s (miligated) | concrete mixer are 12, 0, and 0 veh/hr respectively. |
| | EP23 | | 3.26E-06 | a/m/s (mitigated) | No. of vehicle of aggregate tipper truck, cement tanker and |
| | 11.1 | | | g | concrete mixer are 0, 0, and 3 veh/hr respectively. |
| West Kowloon | Unloading aggregate | Consumption Rate | 272000 | kg/h | Extracted from SP License of Express Rail Link (Appendix C). |
| Cultural District | Source ID: EP9 | | 272 | Mg/h | |
| Plant (Unloading of | | Particle size multiplier, k | 0.74 | | For TSP, AP-42, section 13.2.4, 11/06 ed. |
| raw materials) | | Moisture content, M | 2 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| | | Mean wind speed, U | 3.5 | m/s | PATH Year 2010 mean wind speed |
| | | Emission Eactor E | 0.002165163 | ka/Ma | E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4) |
| | | | 0.002100100 | | (AP-42, section 13.2.4, 11/06 ed.) |
| | | | 0.588924442 | kg/hr | |
| | | Mitigation efficiency | 99 | % | Extracted from SP License of Express Rail Link (Appendix C). |
| | | Emission Rate | 1.64E-03 | g/s (mitigated) | |
| West Kowloon | Small Cementitious | TSP emission factor | 30 | mg/m3 | All calculations and assumptions are extracted from SP |
| Cultural District | Material Silos | Dust extraction flow rate for each | 1300 | m3/hr | License of Express Rail Link (Appendix C). |
| Concrete Batching | Source ID: EP5-EP8 | mixer | 10 | | |
| Plant (Cement / | | No. of operation nour | 12 | nr | From 7:00 to 19:00 |
| FFA 31105) | | No. of small cement silos | 4 | | |
| | | Emission boight | 21 or 22 | | ED5: 01m ED6 ED9: 00m |
| | | Emission Rato | 1 08 02 | a/s (mitigated) | LI 5. 2111, LI 6-LI 6. 2211 |
| | PEA woight Hoppor | Production rate | 1.000-02 | g/s (miligated) | All coloulations and accumptions are autracted from CD |
| | | Density | 001 | m3/m | All calculations and assumptions are extracted from SP |
| | Source ID. LFS-LF4 | | 0.001989 | mg/m3 | |
| | | Emission Factor | 2.60E-03 | kg/Mg | vv eignt nopper loading, AP-42, section 11.12-4, Table 11.12-1, |
| | | Emission Rate | | - a/a (mitigated) | 0/00 C U. |
| West Kewler: | Mixor Course ID: | | 2.30E-04 | g/s (miligaled) | All calculations and accumptions are outrested from CD |
| | IVIIXER SOURCE ID: | Dust extraction flow rate for each | 40 | mg/ma mg/br | An calculations and assumptions are extracted from SP |
| Concrete Patebias | | No of operation hour | 1000 | hr | From 7:00 to 19:00 |
| Plant (Miving Tower) | | No. of small cement silos | 2 | | |
| i iani (iviixing Tower) | | Emission height | 13 | | |
| | <u> </u> | Emission Rate | 1.67E-02 | g/s (mitigated) | |