

## **Appendix 3-6**

### Hourly TSP Calculation Results (Mitigated Scenario)

Appendix 3-6 Results of Mitigated Maximum Hourly TSP Concentrations

| ASR  | X        | Y        | Height | Max. Hourly TSP Conc. (Filling/ Excavation) (Y01 to Y21), µg/m <sup>3</sup><br>(with Bkg. Level) * |                   |                   | Max. Hourly TSP Conc. (Removal of Surcharge) (Y01 to Y21), µg/m <sup>3</sup><br>(with Bkg. Level) * |                   |                   | Max. Hourly TSP Conc. (Filling/ Excavation) (Y01 to Y21), µg/m <sup>3</sup><br>(w/o Bkg. Level) |                   |                   | Max. Hourly TSP Conc. (Removal of Surcharge) (Y01 to Y21), µg/m <sup>3</sup><br>(w/o Bkg. Level) |                   |                   |
|------|----------|----------|--------|--|-------------------|-------------------|---|-------------------|-------------------|---|-------------------|-------------------|--|-------------------|-------------------|
|      |          |          |        | 1.5m Above Ground  | 4.5m Above Ground | 7.5m Above Ground | 1.5m Above Ground   | 4.5m Above Ground | 7.5m Above Ground | 1.5m Above Ground   | 4.5m Above Ground | 7.5m Above Ground | 1.5m Above Ground  | 4.5m Above Ground | 7.5m Above Ground |
|      |          |          |        | A01  | 823101.1          | 837242.4          | 4.4   | 164               | 164               | 164   | 150               | 150               | 150  | 15                | 14                |
| A01A | 823124.3 | 837181.3 | 4.4    | 164  | 164               | 164               | 150   | 150               | 150               | 17  | 17                | 16                | 13   | 13                | 13                |
| A02  | 823092.8 | 837314.0 | 4.4    | 164  | 164               | 164               | 150   | 150               | 150               | 15  | 14                | 14                | 15   | 15                | 14                |
| A02A | 823119.9 | 837359.1 | 4.4    | 164  | 164               | 164               | 150   | 150               | 150               | 16  | 15                | 14                | 16   | 16                | 16                |
| A03  | 823260.8 | 837373.7 | 4.4    | 164  | 164               | 164               | 152   | 151               | 151               | 26  | 25                | 24                | 20   | 20                | 19                |
| A04  | 823276.8 | 837456.1 | 4.3    | 164  | 164               | 164               | 150   | 150               | 150               | 30  | 30                | 28                | 15   | 15                | 14                |
| A05  | 823287.1 | 837673.9 | 4.2    | 164  | 164               | 164               | 150   | 150               | 150               | 29  | 28                | 26                | 40   | 38                | 35                |
| A05A | 823269.6 | 837644.5 | 4.2    | 164  | 164               | 164               | 150   | 150               | 150               | 31  | 28                | 25                | 36   | 35                | 32                |
| A05B | 823308.7 | 837726.2 | 4.2    | 164  | 164               | 164               | 150   | 150               | 150               | 39  | 36                | 32                | 43   | 41                | 37                |
| A06  | 823405.0 | 837870.0 | 4.2    | 164  | 164               | 164               | 153   | 152               | 150               | 66  | 55                | 45                | 97   | 82                | 59                |
| A06A | 823365.9 | 837883.6 | 4.2    | 164  | 164               | 164               | 150   | 150               | 150               | 56  | 49                | 37                | 51   | 45                | 36                |
| A07  | 823788.6 | 837882.5 | 3.1    | 295  | 215               | 164               | 228   | 150               | 150               | 212   | 132               | 84                | 149  | 56                | 39                |
| A08  | 823679.1 | 837571.7 | 2.3    | 164  | 164               | 164               | 150   | 150               | 150               | 47  | 44                | 38                | 40   | 35                | 27                |
| A09  | 823717.3 | 837567.0 | 3.5    | 165  | 165               | 165               | 150   | 150               | 150               | 42  | 40                | 35                | 38   | 33                | 26                |
| A10  | 823227.6 | 837343.9 | 4.4    | 164  | 164               | 164               | 150   | 150               | 150               | 24  | 24                | 23                | 18   | 18                | 17                |
| A10A | 823188.8 | 837327.3 | 4.4    | 164  | 164               | 164               | 150   | 150               | 150               | 21  | 21                | 20                | 14   | 14                | 13                |
| A11  | 823382.1 | 837043.2 | 4.5    | 164  | 164               | 164               | 150   | 150               | 150               | 10  | 10                | 10                | 11   | 10                | 10                |
| A12  | 823509.2 | 837017.6 | 6.5    | 164  | 164               | 164               | 150   | 150               | 150               | 17  | 17                | 16                | 13   | 13                | 12                |
| A13  | 823171.4 | 837105.0 | 4.6    | 164  | 164               | 164               | 150   | 150               | 150               | 15  | 15                | 14                | 8  | 8                 | 8                 |
| A14  | 823175.5 | 837030.5 | 4.4    | 164  | 164               | 164               | 150   | 150               | 150               | 13  | 13                | 12                | 7  | 7                 | 7                 |
| A15  | 823271.8 | 836947.2 | 4.1    | 164  | 164               | 164               | 150   | 150               | 150               | 9   | 9                 | 9                 | 6  | 6                 | 6                 |
| A16  | 823496.0 | 837908.2 | 4.2    | 218  | 164               | 164               | 180   | 161               | 150               | 184   | 107               | 55                | 132  | 84                | 56                |
| A16A | 823470.2 | 837871.6 | 4.2    | 185  | 175               | 164               | 155   | 151               | 150               | 134   | 100               | 58                | 105  | 72                | 54                |
| A17  | 823500.6 | 838152.4 | 5.7    | 164  | 164               | 164               | 155   | 150               | 150               | 50  | 44                | 33                | 116  | 94                | 62                |
| A18  | 823725.6 | 838015.9 | 3.5    | 219  | 208               | 192               | 150   | 150               | 150               | 114   | 90                | 58                | 72   | 65                | 54                |
| A19  | 823749.5 | 837459.6 | 3.3    | 164  | 164               | 164               | 150   | 150               | 150               | 31  | 30                | 28                | 22   | 21                | 18                |
| A20  | 823745.4 | 837355.3 | 4.2    | 164  | 164               | 164               | 150   | 150               | 150               | 18  | 18                | 17                | 24   | 23                | 21                |
| A21  | 823713.9 | 837274.0 | 4.2    | 164  | 164               | 164               | 150   | 150               | 150               | 16  | 16                | 16                | 16   | 16                | 14                |
| A22  | 823645.1 | 837066.1 | 3.5    | 164  | 164               | 164               | 150   | 150               | 150               | 16  | 16                | 16                | 7  | 7                 | 7                 |
| A23  | 823920.6 | 837866.7 | 3.6    | 164  | 164               | 164               | 150   | 150               | 150               | 48  | 43                | 37                | 52   | 45                | 33                |
| A24  | 823927.7 | 837923.6 | 3.5    | 164  | 164               | 164               | 182   | 169               | 150               | 44  | 43                | 39                | 93   | 80                | 59                |
| A25  | 823756.0 | 838085.2 | 4.9    | 200  | 196               | 188               | 150   | 150               | 150               | 69  | 61                | 49                | 26   | 23                | 20                |
| A26  | 823040.6 | 838098.6 | 4.4    | 164  | 164               | 164               | 150   | 150               | 150               | 55  | 53                | 49                | 16   | 15                | 14                |
| A27  | 823465.6 | 837089.9 | 4.5    | 164  | 164               | 164               | 150   | 150               | 150               | 17  | 17                | 17                | 12   | 12                | 12                |
| A28  | 823286.6 | 837864.2 | 4.3    | 164  | 164               | 164               | 153   | 152               | 151               | 33  | 31                | 28                | 26   | 24                | 21                |
| A29  | 823279.2 | 837826.6 | 4.3    | 164  | 164               | 164               | 157   | 155               | 153               | 37  | 35                | 30                | 30   | 28                | 25                |
| A30  | 823293.2 | 837534.5 | 4.5    | 164  | 164               | 164               | 150   | 150               | 150               | 28  | 26                | 24                | 31   | 30                | 26                |
| A31  | 823393.5 | 837959.7 | 3.9    | 181  | 164               | 164               | 150   | 150               | 150               | 123   | 103               | 73                | 107  | 89                | 63                |
| A32  | 823353.0 | 837069.1 | 4.5    | 164  | 164               | 164               | 150   | 150               | 150               | 10  | 10                | 10                | 8  | 8                 | 7                 |
| A33  | 823439.3 | 837932.1 | 3.9    | 177  | 164               | 164               | 195   | 150               | 150               | 132   | 101               | 61                | 156  | 99                | 42                |
| A34  | 823424.5 | 838140.2 | 5.2    | 164  | 164               | 164               | 150   | 150               | 150               | 43  | 42                | 40                | 59   | 52                | 40                |
| A35  | 823581.4 | 838166.3 | 5      | 177  | 173               | 167               | 150   | 150               | 150               | 89  | 79                | 62                | 41   | 35                | 30                |
| A36  | 823703.1 | 837968.5 | 3.5    | 208  | 190               | 178               | 171   | 161               | 150               | 153   | 94                | 67                | 120  | 97                | 65                |
| A1Pa | 823687.9 | 837719.0 | 3      | 179  | 169               | 165               | 178   | 150               | 150               | 77  | 67                | 56                | 80   | 53                | 37                |
| A2Pa | 823545.2 | 837421.1 | 3      | 164  | 164               | 164               | 150   | 150               | 150               | 40  | 39                | 36                | 19   | 18                | 17                |
| A3Pa | 823454.7 | 837785.1 | 4      | 164  | 164               | 164               | 213   | 150               | 150               | 121   | 72                | 60                | 161  | 73                | 50                |
| A4Pa | 823304.9 | 837427.1 | 4      | 164  | 164               | 164               | 156   | 155               | 154               | 29  | 28                | 27                | 24   | 24                | 23                |
| A5Pa | 823482.3 | 837384.6 | 6.5    | 164  | 164               | 164               | 150   | 150               | 150               | 29  | 28                | 27                | 22   | 21                | 20                |
| V01  | 823571.7 | 837355.7 | 3      | 164  | 164               | 164               | 150   | 150               | 150               | 35  | 34                | 32                | 25   | 24                | 22                |
| V02  | 823780.1 | 837738.5 | 2.4    | 169  | 168               | 168               | 158   | 150               | 150               | 90  | 77                | 58                | 88   | 75                | 55                |
| V03  | 823524.7 | 837232.0 | 3      | 164  | 164               | 164               | 150   | 150               | 150               | 27  | 27                | 26                | 16   | 15                | 14                |
| V04  | 823384.5 | 837124.2 | 4.8    | 164  | 164               | 164               | 150   | 150               | 150               | 10  | 10                | 10                | 11   | 11                | 10                |

  

|                                    |            |            |            |            |            |            |            |            |           |            |           |           |
|------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|-----------|-----------|
| <b>Max Conc. (with bkg. Level)</b> | <b>295</b> | <b>215</b> | <b>192</b> | <b>228</b> | <b>169</b> | <b>154</b> | <b>212</b> | <b>132</b> | <b>84</b> | <b>161</b> | <b>99</b> | <b>65</b> |
| <b>Criteria</b>                    | 500        | 500        | 500        | 500        | 500        | 500        | 500        | 500        | 500       | 500        | 500       | 500       |
| <b>Compliance with Criteria?</b>   | Yes        | Yes        | Yes        | Yes        | Yes        | Yes        | Yes        | Yes        | Yes       | Yes        | Yes       | Yes       |

Remark: \* The above results have included the background level extracted from the PATH Output (year 2015). The hour-by-hour background contribution is estimated using output of PATH model, and added hour-by-hour to the Project contribution, and the results are presented above.