

Appendix 3-4

Summary Table of TSP Assessment Results (Unmitigated Scenario)

Appendix 3-4 Summary Table of Highest Hourly TSP Level (Unmitigated Scenario)

ASR	X	Y	Z	Height above ground	Max. Hourly TSP (With Bkg. Level) *	Max. Hourly TSP (W/o Bkg.)	TSP Concentration, $\mu\text{g}/\text{m}^3$			
					With Bkg. Level	= Max of (A), (B), (C1), and (C2)	(A) Workdays (day-time)	(B) Workdays (Night-time)	(C1) Holidays (Day-time)	(C2) Holidays (Night-time)
A01	823101.12	837242.4	4.4	1.5	1253	1089	1089.2	47.4	9.1	46.8
A01A	823124.28	837181.3	4.4	1.5	1188	1024	1023.9	51.8	12.5	49.4
A02	823092.84	837314	4.4	1.5	2549	2385	2384.8	45.2	9.9	44.8
A02A	823119.86	837359.1	4.4	1.5	2472	2308	2307.6	47.8	11.8	46.9
A03	823260.81	837373.7	4.4	1.5	3889	3725	3725.4	71.4	19.6	69.0
A04	823276.81	837456.1	4.3	1.5	3905	3741	3741.1	76.6	22.2	71.2
A05	823287.12	837673.9	4.2	1.5	1489	1325	1324.7	79.3	17.5	78.6
A05A	823269.63	837644.5	4.2	1.5	1703	1539	1538.6	74.1	16.2	74.0
A05B	823308.73	837726.2	4.2	1.5	1318	1154	1153.6	80.5	15.3	82.0
A06	823405	837870	4.2	1.5	1166	1002	1002.1	67.2	13.4	59.1
A06A	823365.92	837883.6	4.2	1.5	1058	894	893.8	62.8	13.3	67.4
A07	823788.62	837882.5	3.1	1.5	1004	840	839.5	48.1	7.4	32.0
A08	823679.12	837571.7	2.3	1.5	1381	1217	1217.0	72.7	15.1	58.0
A09	823717.31	837567	3.5	1.5	1325	1161	1161.1	69.8	11.6	58.8
A10	823227.62	837343.9	4.4	1.5	3182	3018	3018.1	64.6	17.4	62.7
A10A	823188.8	837327.3	4.4	1.5	2991	2827	2826.9	57.8	15.1	52.7
A11	823382.12	837043.2	4.5	1.5	3762	3598	3598.1	137.2	36.9	136.3
A12	823509.19	837017.6	6.5	1.5	3106	2942	2941.8	132.8	32.4	49.7
A13	823171.38	837105	4.6	1.5	1383	1219	1219.1	62.0	15.9	61.5
A14	823175.5	837030.5	4.4	1.5	1567	1403	1402.5	67.7	15.0	67.7
A15	823271.81	836947.2	4.1	1.5	2125	1961	1960.6	89.3	19.7	92.3
A16	823496	837908.2	4.2	1.5	1238	1074	1074.0	59.8	12.5	36.9
A16A	823470.21	837871.6	4.2	1.5	1307	1143	1142.7	64.0	12.9	40.8
A17	823500.62	838152.4	5.7	1.5	858	694	693.8	46.4	8.6	23.3
A18	823725.62	838015.9	3.5	1.5	901	737	737.0	45.7	7.8	31.7
A19	823749.5	837459.6	3.3	1.5	1447	1283	1282.8	58.1	12.8	61.7
A20	823745.38	837355.3	4.2	1.5	1337	1173	1172.7	56.2	11.9	48.9
A21	823713.88	837274	4.2	1.5	1527	1363	1362.7	55.6	16.1	53.0
A22	823645.12	837066.1	3.5	1.5	1747	1583	1583.3	67.2	14.2	67.1
A23	823920.62	837886.7	3.6	1.5	710	546	546.2	39.9	5.6	20.6
A24	823927.69	837923.6	3.5	1.5	702	538	537.8	39.8	6.0	16.3
A25	823756	838085.2	4.9	1.5	806	642	641.9	42.6	6.9	26.5
A26	823040.62	838098.6	4.4	1.5	749	585	585.3	36.7	6.1	36.6
A27	823465.59	837089.9	4.5	1.5	6884	6720	6720.0	176.9	74.9	90.1
A28	823286.57	837864.2	4.3	1.5	1104	940	940.4	50.7	9.6	53.6
A29	823279.17	837826.6	4.3	1.5	1007	843	843.1	65.1	11.5	66.7
A30	823293.2	837534.5	4.5	1.5	1924	1760	1760.0	86.8	17.5	86.8
A31	823393.53	837959.7	3.9	1.5	901	737	737.0	59.6	11.4	53.6
A32	823353.02	837069.1	4.5	1.5	3749	3585	3584.5	148.4	34.8	148.8
A33	823439.27	837932.1	3.9	1.5	1272	1108	1108.4	60.3	9.4	40.4
A34	823424.53	838140.2	5.2	1.5	930	766	765.5	47.2	5.8	28.4
A35	823581.4	838166.3	5	1.5	732	568	567.8	42.9	5.2	39.3
A36	823703.1	837968.5	3.5	1.5	981	817	817.3	48.1	8.4	37.9
A1Pa	823687.9	837719	3	1.5	1364	1200	1200.3	64.2	12.4	43.5
A2Pa	823545.2	837421.1	3	1.5	3671	3507	3506.7	139.4	45.4	119.7
A3Pa	823454.7	837785.1	4	1.5	1520	1356	1356.2	73.5	14.5	48.5
A4Pa	823304.9	837427.1	4	1.5	4683	4519	4518.5	87.6	26.8	85.9
A5Pa	823602.1	837795.8	4	1.5	1323	1159	1159.2	61.5	10.4	65.0
V01	823571.7	837355.7	3	1.5	4228	4064	4064.0	134.9	38.4	134.7
V02	823780.1	837738.5	2.4	1.5	986	822	821.8	52.9	9.6	24.1
V03	823524.7	837232	3	1.5	3975	3811	3811.0	127.9	38.3	101.2
V04	823384.5	837124.2	4.8	1.5	6832	6668	6668.3	163.6	71.0	158.8
A01	823101.12	837242.4	4.4	4.5	1153	989	989.1	38.0	8.7	37.6
A01A	823124.28	837181.3	4.4	4.5	1115	951	951.4	39.2	12.2	39.3
A02	823092.84	837314	4.4	4.5	2344	2180	2179.5	36.3	9.3	36.2
A02A	823119.86	837359.1	4.4	4.5	2252	2088	2088.3	37.6	11.6	36.7
A03	823260.81	837373.7	4.4	4.5	3047	2883	2883.4	45.5	18.7	45.5
A04	823276.81	837456.1	4.3	4.5	2951	2787	2786.8	53.1	21.2	51.7
A05	823287.12	837673.9	4.2	4.5	1430	1266	1266.2	66.4	16.8	63.9
A05A	823269.63	837644.5	4.2	4.5	1634	1470	1469.9	60.7	15.6	60.3
A05B	823308.73	837726.2	4.2	4.5	1283	1119	1118.6	68.2	14.8	69.6
A06	823405	837870	4.2	4.5	1122	958	958.4	60.6	13.1	53.4
A06A	823365.92	837883.6	4.2	4.5	1040	876	875.6	57.0	13.0	61.0
A07	823788.62	837882.5	3.1	4.5	990	826	826.3	44.5	7.4	29.7
A08	823679.12	837571.7	2.3	4.5	1329	1165	1164.9	59.7	14.9	45.3
A09	823717.31	837567	3.5	4.5	1280	1116	1115.5	58.2	11.2	48.4
A10	823227.62	837343.9	4.4	4.5	2629	2465	2465.3	42.9	16.9	41.8
A10A	823188.8	837327.3	4.4	4.5	2596	2432	2431.8	40.8	14.7	36.4
A11	823382.12	837043.2	4.5	4.5	3517	3353	3352.7	74.1	34.3	71.7
A12	823509.19	837017.6	6.5	4.5	2953	2789	2788.6	75.8	30.4	42.0
A13	823171.38	837105	4.6	4.5	1316	1152	1151.7	47.0	15.5	46.6
A14	823175.5	837030.5	4.4	4.5	1496	1332	1331.7	53.2	14.2	53.2
A15	823271.81	836947.2	4.1	4.5	2006	1842	1842.3	69.3	18.6	71.0
A16	823496	837908.2	4.2	4.5	1218	1054	1053.9	54.6	12.0	33.4
A16A	823470.21	837871.6	4.2	4.5	1283	1119	1118.6	57.8	12.3	37.0
A17	823500.62	838152.4	5.7	4.5	850	686	686.2	43.9	8.4	22.0
A18	823725.62	838015.9	3.5	4.5	892	728	727.6	42.9	7.7	29.8
A19	823749.5	837459.6	3.3	4.5	1384	1220	1219.8	47.1	12.1	48.4
A20	823745.38	837355.3	4.2	4.5	1258	1094	1094.2	40.6	11.3	37.4
A21	823713.88	837274	4.2	4.5	1486	1322	1321.6	38.2	15.6	39.2
A22	823645.12	837066.1	3.5	4.5	1691	1527	1526.5	50.2	12.8	44.3
A23	823920.62	837886.7	3.6	4.5	703	539	538.8	37.4	5.6	19.2
A24	823927.69	837923.6	3.5	4.5	695	531	531.2	37.4	5.9	15.2

ASR	X	Y	Z	Height above ground	Max. Hourly TSP (With Bkg. Level) *	Max. Hourly TSP (W/o Bkg.)	TSP Concentration, $\mu\text{g}/\text{m}^3$			
					With Bkg. Level	= Max of (A), (B), (C1), and (C2)	(A) Workdays (day-time)	(B) Workdays (Night-time)	(C1) Holidays (Day-time)	(C2) Holidays (Night-time)
A25	823756	838085.2	4.9	4.5	799	635	634.9	40.2	6.8	25.1
A26	823040.62	838098.6	4.4	4.5	743	579	579.2	34.8	6.0	34.6
A27	823465.59	837089.9	4.5	4.5	4389	4225	4225.2	66.1	44.2	36.8
A28	823286.57	837864.2	4.3	4.5	1086	922	921.7	45.7	9.4	48.3
A29	823279.17	837826.6	4.3	4.5	989	825	825.2	58.0	11.3	59.5
A30	823293.2	837534.5	4.5	4.5	1813	1649	1649.2	61.2	16.5	61.2
A31	823393.53	837959.7	3.9	4.5	889	725	724.7	55.0	11.2	49.4
A32	823353.02	837069.1	4.5	4.5	2977	2813	2812.9	69.1	27.6	69.2
A33	823439.27	837932.1	3.9	4.5	1232	1068	1067.6	55.3	9.4	37.1
A34	823424.53	838140.2	5.2	4.5	911	747	747.0	44.6	5.8	26.8
A35	823581.4	838166.3	5	4.5	726	562	561.9	40.7	5.0	37.3
A36	823703.1	837968.5	3.5	4.5	970	806	805.7	44.9	8.3	35.4
A1Pa	823687.9	837719	3	4.5	1332	1168	1167.6	56.6	12.3	38.3
A2Pa	823545.2	837421.1	3	4.5	3293	3129	3129.0	63.4	39.7	52.7
A3Pa	823454.7	837785.1	4	4.5	1460	1296	1296.3	64.6	14.0	42.7
A4Pa	823304.9	837427.1	4	4.5	3219	3055	3054.5	55.1	24.6	55.1
A5Pa	823602.1	837795.8	4	4.5	1296	1132	1131.5	54.7	10.1	57.9
V01	823571.7	837355.7	3	4.5	3489	3325	3324.7	55.0	24.1	57.9
V02	823780.1	837738.5	2.4	4.5	968	804	803.8	47.5	9.4	21.3
V03	823524.7	837232	3	4.5	3115	2951	2950.8	46.1	27.0	29.7
V04	823384.5	837124.2	4.8	4.5	4455	4291	4291.0	60.2	43.0	52.0
A01	823101.12	837242.4	4.4	7.5	1016	852	852.2	24.6	7.8	24.4
A01A	823124.28	837181.3	4.4	7.5	1074	910	910.4	24.9	11.8	25.0
A02	823092.84	837314	4.4	7.5	1986	1822	1821.5	23.8	9.0	23.8
A02A	823119.86	837359.1	4.4	7.5	1876	1712	1711.7	24.3	11.2	22.7
A03	823260.81	837373.7	4.4	7.5	1923	1759	1758.6	25.8	16.9	24.9
A04	823276.81	837456.1	4.3	7.5	1761	1597	1596.6	31.5	19.2	28.1
A05	823287.12	837673.9	4.2	7.5	1322	1158	1157.6	47.0	15.6	46.1
A05A	823269.63	837644.5	4.2	7.5	1507	1343	1342.5	42.1	14.3	42.3
A05B	823308.73	837726.2	4.2	7.5	1216	1052	1052.1	49.3	13.8	50.5
A06	823405	837870	4.2	7.5	1041	877	877.0	49.4	12.5	43.8
A06A	823365.92	837883.6	4.2	7.5	1005	841	840.5	47.0	12.5	50.2
A07	823788.62	837882.5	3.1	7.5	964	800	800.4	38.1	7.3	25.5
A08	823679.12	837571.7	2.3	7.5	1232	1068	1068.0	40.7	14.4	27.9
A09	823717.31	837567	3.5	7.5	1194	1030	1029.9	40.7	10.3	33.1
A10	823227.62	837343.9	4.4	7.5	1820	1656	1655.8	25.5	15.8	24.8
A10A	823188.8	837327.3	4.4	7.5	1970	1806	1805.6	24.3	13.9	24.1
A11	823382.12	837043.2	4.5	7.5	3097	2933	2933.3	41.8	29.9	34.4
A12	823509.19	837017.6	6.5	7.5	2681	2517	2517.0	35.0	27.1	31.0
A13	823171.38	837105	4.6	7.5	1193	1029	1028.6	28.3	14.7	28.2
A14	823175.5	837030.5	4.4	7.5	1366	1202	1201.5	33.3	12.8	33.3
A15	823271.81	836947.2	4.1	7.5	1793	1629	1628.9	42.9	16.5	43.2
A16	823496	837908.2	4.2	7.5	1179	1015	1014.9	45.7	11.1	27.6
A16A	823470.21	837871.6	4.2	7.5	1236	1072	1072.0	47.3	11.3	30.5
A17	823500.62	838152.4	5.7	7.5	835	671	671.4	39.3	8.0	19.7
A18	823725.62	838015.9	3.5	7.5	873	709	709.3	37.7	7.5	26.4
A19	823749.5	837459.6	3.3	7.5	1267	1103	1103.4	31.1	10.9	31.3
A20	823745.38	837355.3	4.2	7.5	1118	954	953.6	21.6	10.6	22.2
A21	823713.88	837274	4.2	7.5	1407	1243	1243.4	18.5	14.7	21.8
A22	823645.12	837066.1	3.5	7.5	1584	1420	1419.7	30.8	10.7	22.2
A23	823920.62	837886.7	3.6	7.5	688	524	524.3	32.9	5.4	16.7
A24	823927.69	837923.6	3.5	7.5	682	518	518.3	33.1	5.7	13.3
A25	823756	838085.2	4.9	7.5	785	621	621.2	35.9	6.7	22.5
A26	823040.62	838098.6	4.4	7.5	731	567	567.3	31.2	5.9	31.1
A27	823465.59	837089.9	4.5	7.5	3174	3010	3010.2	27.9	30.6	20.7
A28	823286.57	837864.2	4.3	7.5	1050	886	885.5	37.1	9.0	39.3
A29	823279.17	837826.6	4.3	7.5	955	791	790.6	46.2	10.7	47.5
A30	823293.2	837534.5	4.5	7.5	1626	1462	1462.1	36.6	14.7	36.4
A31	823393.53	837959.7	3.9	7.5	865	701	700.8	46.8	10.9	42.1
A32	823353.02	837069.1	4.5	7.5	2508	2344	2343.8	38.7	18.7	30.4
A33	823439.27	837932.1	3.9	7.5	1155	991	990.6	46.5	9.3	31.2
A34	823424.53	838140.2	5.2	7.5	876	712	711.5	39.8	5.7	23.9
A35	823581.4	838166.3	5	7.5	714	550	550.3	36.6	4.9	33.5
A36	823703.1	837968.5	3.5	7.5	947	783	782.9	39.1	8.1	30.9
A1Pa	823687.9	837719	3	7.5	1269	1105	1105.2	44.2	12.1	29.7
A2Pa	823545.2	837421.1	3	7.5	2771	2607	2606.8	37.7	32.1	30.4
A3Pa	823454.7	837785.1	4	7.5	1389	1225	1224.8	50.0	13.7	33.2
A4Pa	823304.9	837427.1	4	7.5	1913	1749	1748.9	31.0	21.1	25.3
A5Pa	823602.1	837795.8	4	7.5	1242	1078	1078.1	43.5	9.6	46.2
V01	823571.7	837355.7	3	7.5	2611	2447	2446.5	24.9	19.9	28.6
V02	823780.1	837738.5	2.4	7.5	933	769	768.9	38.5	9.2	16.9
V03	823524.7	837232	3	7.5	2160	1996	1995.5	24.7	17.4	16.8
V04	823384.5	837124.2	4.8	7.5	3167	3003	3003.2	32.2	28.9	33.7
Max. TSP Level, $\mu\text{g}/\text{m}^3$					6884.0	6720				
Relevant AQO Criteria, $\mu\text{g}/\text{m}^3$					500	500				

Remark: * The above results have included the background level extracted from the PATH Output (year 2015). The predicted TSP level due to this Project has already exceeded the relevant air quality criteria regardless the background level (i.e. mitigation measures will be required regardless the background level), thus in calculating the total concentration of TSP (i.e. background + Project contribution), the maximum hourly RSP level from the PATH output file (i.e. $164 \mu\text{g}/\text{m}^3$) is used (a conservative approach).