

Appendix 3.9

Results of Construction Dust Assessment for Year 2014 and Year 2015

Appendix 3.9 - Results of Construction Dust Assessment (Year 2014)

ASRs	Height above ground (m)	AQO					
		500	260	80	500	260	80
		Result with Background (65.2 µg/m ³)					
		Unmitigated Scenario			Mitigated Scenario		
	1hr TSP	24hr TSP	Annual TSP	1hr TSP	24hr TSP	Annual TSP	
SH-1	7.5	216.3	86.9	66.4	88.0	68.7	65.4
SH-3	13.5	191.6	85.1	66.3	85.5	68.5	65.4
SH-5	19.5	165.3	82.8	66.2	82.9	68.3	65.4
SH-10	34.5	115.2	77.4	66.0	77.1	67.6	65.4
OC-1	12.0	163.9	82.9	66.3	81.1	68.2	65.4
FR-1	28.0	127.0	81.5	66.7	80.8	68.5	65.4
FR-3	34.0	117.5	79.3	66.5	79.1	68.2	65.4
FR-5	40.0	108.9	77.3	66.3	77.4	67.9	65.4
FR-10	55.0	95.0	73.5	66.0	73.9	67.4	65.4
FR-20	85.0	88.2	70.4	65.6	72.2	66.7	65.3
FR-30	115.0	86.6	68.8	65.5	72.0	66.4	65.3
THV-1	2.0	179.7	84.5	68.8	82.8	68.6	65.7
PAV-1	25.0	135.9	82.9	67.6	83.0	68.9	65.5
PAV-3	31.0	121.8	80.4	67.1	80.8	68.6	65.5
PAV-5	37.0	110.5	78.1	66.8	78.8	68.3	65.5
PAV-10	52.0	97.0	74.5	66.2	74.8	67.7	65.4
PAV-20	82.0	88.1	70.8	65.7	72.5	66.9	65.3
PAV-30	112.0	86.0	68.9	65.5	72.3	66.5	65.3
PAV-40	142.0	85.3	68.0	65.4	71.5	66.3	65.3
OLP-1	12.0	177.0	90.2	69.5	90.3	70.2	65.8
CG-1	5.5	225.5	92.3	69.0	96.3	70.7	65.8
CG-3	11.5	194.0	89.2	68.7	92.9	70.3	65.7
CG-5	17.5	162.4	85.6	68.2	89.2	69.9	65.6
CG-10	32.5	118.0	78.8	67.2	82.0	69.1	65.5
CG-20	62.5	89.9	72.5	66.1	73.8	67.7	65.4
LKPC-1	1.5	211.4	87.6	68.6	94.6	70.5	65.7
LKPC-3	7.5	198.2	87.3	68.6	94.4	70.6	65.7
LKPC-5	13.5	165.5	84.6	68.3	90.7	70.2	65.7
YCS-1	1.5	176.0	91.0	68.5	92.2	70.9	65.7
YCS-5	13.5	153.4	86.3	68.2	90.2	70.5	65.7
YMT-1	5.0	304.0	141.2	93.4	100.9	74.9	68.2
HKCC-1	17.0	130.4	80.9	67.3	88.0	70.2	65.6
HKCC-3	23.0	118.1	78.6	67.1	85.4	69.9	65.6
HKCC-5	29.0	110.9	77.0	66.9	83.0	69.5	65.6
HKCC-10	44.0	96.8	73.8	66.5	77.7	68.8	65.5
PG-1	5.0	125.0	76.8	66.5	93.0	70.2	65.6
PG-3	11.0	120.0	76.3	66.5	91.3	70.1	65.6
PG-5	17.0	113.3	75.6	66.4	89.0	69.8	65.6
PG-10	32.0	98.5	73.3	66.3	82.4	69.0	65.6
PG-20	62.0	88.2	70.1	66.0	76.4	67.5	65.5
CAS-1	7.5	250.3	90.9	68.2	107.3	72.0	65.9
CAS-3	13.5	190.6	86.3	67.9	98.4	71.3	65.9
CAS-5	19.5	164.0	82.4	67.6	92.4	70.7	65.8
SRT-1	39.7	107.9	75.9	67.2	82.0	69.9	65.9
SRT-3	45.7	100.3	73.8	66.8	80.1	69.1	65.8
SRT-5	51.7	96.0	72.1	66.6	79.0	68.4	65.7
SRT-10	66.7	90.3	70.0	66.1	76.5	67.3	65.6
SRT-20	96.7	81.6	68.2	65.7	72.6	66.6	65.4
SRT-30	126.7	78.9	67.6	65.5	71.3	66.3	65.3
SRT-40	156.7	80.8	67.5	65.4	71.9	66.1	65.3
SRT-50	186.7	87.4	68.0	65.4	74.6	66.5	65.3
SRT-60	216.7	107.8	69.4	65.6	81.9	67.1	65.3
YTB-1	7.5	275.5	106.9	73.5	156.4	77.7	66.9
YTB-3	13.5	185.1	88.9	69.1	134.8	75.1	66.4
YTB-5	19.5	149.1	82.1	67.8	116.0	73.6	66.2
YTB-10	34.5	108.3	74.8	66.6	88.3	71.0	66.0
CLS-1	62.3	91.0	71.2	66.3	78.3	68.1	65.7
CLS-3	68.3	88.6	70.4	66.1	77.0	67.7	65.7
CLS-5	74.3	86.6	70.0	66.0	75.9	67.5	65.6
CLS-10	89.3	84.0	69.0	65.8	74.6	67.1	65.5
CLS-20	119.3	81.9	68.0	65.6	73.6	66.6	65.4
CLS-30	149.3	80.9	67.5	65.5	72.5	66.3	65.3
CLS-40	179.3	85.2	67.7	65.5	74.4	66.3	65.3
CLS-50	209.3	98.3	69.5	65.6	80.2	67.1	65.3
ASC-1	10.0	236.9	106.4	73.4	149.7	78.0	67.1
ASC-3	16.0	176.1	85.4	69.2	129.5	75.4	66.6
ASC-5	22.0	145.7	79.7	67.9	111.2	73.8	66.4
ASC-10	37.0	103.0	74.2	66.7	86.5	71.1	66.0

		AQO					
		500	260	80	500	260	80
ASRs	Height above ground (m)	Result with Background (65.2 µg/m3)					
		Unmitigated Scenario			Mitigated Scenario		
		1hr TSP	24hr TSP	Annual TSP	1hr TSP	24hr TSP	Annual TSP
ASC-20	67.0	88.7	70.0	65.9	77.9	68.0	65.6
ICC-1	35.0	136.3	83.3	68.0	91.6	72.4	66.7
ICC-3	41.0	123.4	79.9	67.5	88.4	71.2	66.5
ICC-5	47.0	113.2	77.1	67.2	85.5	70.1	66.3
ICC-10	62.0	97.2	73.0	66.5	79.8	68.8	65.9
ICC-20	92.0	85.8	69.6	65.9	75.5	67.6	65.6
ICC-30	122.0	82.5	68.3	65.6	73.7	66.8	65.4
ICC-40	152.0	83.0	67.7	65.5	72.9	66.4	65.3
ICC-50	182.0	92.0	68.3	65.5	76.5	66.6	65.3
ICC-60	212.0	114.7	71.3	65.7	84.7	67.5	65.4
ICC-70	242.0	122.8	72.4	65.8	88.8	68.1	65.4
ICC-80	272.0	110.3	70.5	65.7	86.0	67.4	65.4
ICC-90	302.0	103.5	70.4	65.6	83.7	67.4	65.4
ICC-100	332.0	106.3	70.9	65.6	83.0	67.7	65.4
ICC-110	362.0	99.8	70.0	65.6	81.5	67.4	65.4
GB-1	5.5	462.9	134.1	75.8	192.4	86.9	68.2
GB-3	11.5	265.7	110.0	71.7	161.0	83.0	67.6
GB-5	17.5	200.7	94.2	69.3	140.1	79.7	67.2
GB-10	32.5	129.6	77.9	67.0	104.4	74.1	66.5
ASD-1	10.0	325.2	117.7	72.3	175.7	86.9	68.3
ASD-3	16.0	220.2	96.5	69.5	147.9	82.2	67.6
ASD-5	22.0	164.1	86.4	68.2	127.3	78.8	67.2
ASD-10	37.0	121.6	76.1	66.8	102.3	73.2	66.4
ASD-20	67.0	93.4	69.6	65.8	82.2	68.2	65.7
ASD-30	97.0	87.2	67.8	65.5	76.8	66.7	65.4
VT-1	43.0	121.0	75.7	66.5	103.3	73.3	66.3
VT-3	49.0	112.0	73.5	66.2	96.3	71.5	66.1
VT-5	55.0	104.6	72.0	66.0	90.5	70.3	65.9
VT-10	70.0	93.4	69.6	65.7	81.8	68.3	65.6
VT-20	100.0	86.0	67.9	65.5	75.7	66.9	65.4
VT-30	130.0	83.6	67.4	65.4	73.6	66.4	65.3
VT-40	160.0	85.5	67.5	65.4	75.1	66.5	65.3
VT-50	190.0	92.5	68.9	65.4	79.8	67.6	65.3
FSDO-1	20.2	275.9	110.5	69.5	215.9	95.5	68.4
FSDO-3	26.2	214.9	96.8	68.3	178.3	87.7	67.7
FSDO-5	32.2	167.5	87.3	67.5	141.8	80.7	67.0
LCMS-1	6.2	476.6	125.1	70.4	269.2	99.9	68.8
LCMS-3	12.2	356.8	111.2	69.1	230.2	94.6	68.0
LCMS-5	18.2	273.2	100.0	68.2	194.2	89.2	67.5
CRGPS-1	5.5	454.8	122.7	69.8	253.2	98.4	68.6
CRGPS-3	11.5	333.1	109.8	68.5	215.5	92.7	67.6
CRGPS-5	17.5	270.6	99.3	67.9	189.1	87.8	67.2
FSDOG	1.5	496.4	137.7	79.1	487.3	137.4	74.6

The TSP Result for ASRs near Concrete Batching Plants

		AQO					
		500	260	80	500	260	80
ASRs	Height above ground (m)	Result with Background (65.2 µg/m3)					
		Unmitigated Scenario			Mitigated Scenario		
		1hr TSP	24hr TSP	Annual TSP	1hr TSP	24hr TSP	Annual TSP
GB	15	225.4	99.7	70.1	148.6	81.0	67.3
	20	179.4	89.7	68.7	132.0	78.5	67.0
	25	152.1	83.5	67.8	117.5	76.4	66.8
ASD	15	234.0	98.9	69.9	151.9	82.9	67.7
	20	177.3	88.8	68.6	133.3	79.8	67.4
	25	152.8	83.3	67.8	121.2	77.3	67.0
FSDO	20	278.1	111.1	69.5	217.0	95.8	68.4
	25	226.0	99.1	68.5	185.9	89.3	67.8
LCMS	15	314.9	105.6	68.6	213.2	92.1	67.8
	20	252.7	97.2	68.0	183.9	87.7	67.4
CRGPS	15	293.4	103.4	68.1	197.7	89.8	67.4
	20	249.8	95.7	67.7	180.7	85.8	67.1

Appendix 3.9 - Results of Construction Dust Assessment (Year 2015)

ASRs	Height above ground (m)	AQO					
		500	260	80	500	260	80
		Result with Background (65.2 µg/m ³)					
		Unmitigated Scenario			Mitigated Scenario		
	1hr TSP	24hr TSP	Annual TSP	1hr TSP	24hr TSP	Annual TSP	
SH-1	7.5	231.7	90.5	66.3	103.4	72.3	65.4
SH-3	13.5	205.5	88.5	66.2	99.4	72.0	65.4
SH-5	19.5	177.4	86.1	66.2	95.0	71.5	65.3
SH-10	34.5	122.4	80.0	66.0	84.4	70.2	65.3
OC-1	12.0	181.6	86.1	66.2	98.9	71.4	65.4
FR-1	28.0	135.8	85.1	66.6	92.3	72.1	65.4
FR-3	34.0	123.2	82.5	66.4	89.1	71.4	65.4
FR-5	40.0	114.0	80.1	66.2	86.2	70.7	65.3
FR-10	55.0	101.6	75.2	65.9	80.0	69.1	65.3
FR-20	85.0	93.0	70.9	65.6	76.9	67.4	65.3
FR-30	115.0	90.7	69.5	65.5	76.1	67.0	65.3
THV-1	2.0	211.7	87.8	68.9	114.8	71.5	65.7
PAV-1	25.0	151.8	88.1	67.4	98.9	74.1	65.5
PAV-3	31.0	135.3	84.8	67.0	94.3	73.0	65.4
PAV-5	37.0	121.3	81.8	66.7	89.9	72.0	65.4
PAV-10	52.0	104.4	76.1	66.1	82.3	69.8	65.3
PAV-20	82.0	93.6	71.1	65.6	78.1	67.6	65.3
PAV-30	112.0	91.1	69.5	65.5	77.4	67.2	65.3
PAV-40	142.0	90.7	69.0	65.4	76.9	67.1	65.3
OLP-1	12.0	215.0	101.2	69.4	128.4	81.2	65.7
CG-1	5.5	279.9	107.2	69.0	150.7	85.6	65.8
CG-3	11.5	234.4	102.2	68.6	133.3	83.3	65.7
CG-5	17.5	194.6	96.3	68.2	121.4	80.6	65.6
CG-10	32.5	135.6	84.1	67.1	99.6	74.4	65.5
CG-20	62.5	98.4	74.1	66.0	82.3	69.5	65.3
LKPC-1	1.5	279.6	104.6	68.6	162.8	87.6	65.8
LKPC-3	7.5	258.7	103.9	68.5	154.9	87.2	65.8
LKPC-5	13.5	207.7	98.5	68.2	132.9	84.1	65.7
YCS-1	1.5	254.9	112.1	68.6	168.5	92.0	65.8
YCS-5	13.5	201.7	102.2	68.2	138.5	86.3	65.7
YMT-1	5.0	407.9	161.1	94.0	191.3	93.4	68.4
HKCC-1	17.0	184.3	100.6	67.4	140.6	89.9	65.7
HKCC-3	23.0	153.4	91.8	67.1	119.9	83.0	65.6
HKCC-5	29.0	136.7	86.2	66.9	108.8	78.7	65.6
HKCC-10	44.0	110.1	77.7	66.4	91.0	72.7	65.4
PG-1	5.0	253.8	105.6	66.9	214.0	99.0	66.0
PG-3	11.0	212.6	94.9	66.7	176.2	88.7	65.8
PG-5	17.0	176.4	87.8	66.5	144.6	82.0	65.7
PG-10	32.0	124.4	77.5	66.2	105.4	73.2	65.5
PG-20	62.0	93.6	71.2	65.8	82.7	68.7	65.4
CAS-1	7.5	325.2	122.0	68.4	197.7	108.8	66.3
CAS-3	13.5	242.6	111.1	67.9	153.3	99.2	66.0
CAS-5	19.5	204.2	101.5	67.5	132.6	91.2	65.9
SRT-1	39.7	118.0	79.3	66.9	92.0	73.8	65.6
SRT-3	45.7	109.6	76.8	66.6	89.4	72.7	65.6
SRT-5	51.7	103.0	74.9	66.3	87.0	71.8	65.5
SRT-10	66.7	94.0	72.1	65.9	81.8	70.1	65.4
SRT-20	96.7	85.1	68.9	65.6	77.1	67.8	65.3
SRT-30	126.7	84.2	67.4	65.4	76.6	66.7	65.3
SRT-40	156.7	84.5	67.6	65.4	76.6	66.7	65.3
SRT-50	186.7	92.5	69.1	65.4	81.2	67.8	65.3
SRT-60	216.7	119.9	72.0	65.5	93.9	69.7	65.3
YTB-1	7.5	262.7	110.9	72.8	143.6	79.6	66.4
YTB-3	13.5	175.9	90.3	68.5	125.6	76.5	66.0
YTB-5	19.5	144.4	82.8	67.3	111.3	74.4	65.8
YTB-10	34.5	113.0	74.7	66.3	94.3	71.0	65.6
CLS-1	62.3	95.0	72.9	66.0	82.5	70.1	65.5
CLS-3	68.3	92.5	72.0	65.9	81.3	69.7	65.5
CLS-5	74.3	90.3	71.3	65.8	80.2	69.3	65.4
CLS-10	89.3	87.1	69.9	65.7	78.4	68.4	65.4
CLS-20	119.3	85.3	68.4	65.5	77.3	67.4	65.3
CLS-30	149.3	85.0	68.0	65.4	76.7	67.1	65.3
CLS-40	179.3	90.3	68.9	65.4	79.5	67.6	65.3
CLS-50	209.3	105.2	71.1	65.5	87.1	68.7	65.3
ASC-1	10.0	223.3	107.4	72.7	136.0	79.0	66.5
ASC-3	16.0	164.7	86.4	68.6	118.1	76.1	66.0
ASC-5	22.0	138.9	80.7	67.3	104.3	74.3	65.9
ASC-10	37.0	108.9	74.1	66.2	92.5	71.1	65.6

		AQO					
		500	260	80	500	260	80
ASRs	Height above ground (m)	Result with Background (65.2 µg/m3)					
		Unmitigated Scenario			Mitigated Scenario		
		1hr TSP	24hr TSP	Annual TSP	1hr TSP	24hr TSP	Annual TSP
ASC-20	67.0	92.4	69.7	65.6	81.5	67.9	65.4
ICC-1	35.0	139.1	82.6	67.2	95.0	72.9	66.0
ICC-3	41.0	126.1	79.3	66.9	91.3	71.8	65.9
ICC-5	47.0	115.3	76.8	66.6	87.9	71.0	65.8
ICC-10	62.0	100.0	73.2	66.1	82.6	69.6	65.6
ICC-20	92.0	89.1	69.9	65.7	78.7	68.2	65.4
ICC-30	122.0	86.0	68.5	65.5	77.2	67.4	65.3
ICC-40	152.0	87.3	68.1	65.4	77.2	67.2	65.3
ICC-50	182.0	95.6	69.5	65.5	80.0	67.7	65.3
ICC-60	212.0	118.3	72.8	65.6	88.3	69.0	65.3
ICC-70	242.0	126.7	74.0	65.7	92.6	69.7	65.4
ICC-80	272.0	112.1	71.7	65.6	87.8	69.2	65.3
ICC-90	302.0	102.8	70.7	65.5	83.1	68.6	65.3
ICC-100	332.0	106.6	70.4	65.5	83.3	68.5	65.3
ICC-110	362.0	100.9	69.6	65.5	82.5	68.2	65.3
GB-1	5.5	425.9	128.5	74.5	155.5	81.3	67.1
GB-3	11.5	234.0	105.2	70.5	130.8	78.1	66.6
GB-5	17.5	178.5	90.1	68.3	118.1	75.6	66.3
GB-10	32.5	123.2	75.2	66.3	98.1	71.3	65.8
ASD-1	10.0	289.8	109.9	70.8	140.2	80.6	66.9
ASD-3	16.0	192.8	91.5	68.3	120.5	77.2	66.5
ASD-5	22.0	147.6	82.3	67.2	110.0	74.7	66.2
ASD-10	37.0	114.6	73.7	66.1	95.3	70.8	65.8
ASD-20	67.0	93.7	69.0	65.5	82.4	67.6	65.4
ASD-30	97.0	88.3	67.8	65.4	78.0	66.7	65.3
VT-1	43.0	110.6	72.3	65.8	92.9	69.9	65.7
VT-3	49.0	104.6	71.1	65.7	88.9	69.1	65.6
VT-5	55.0	99.9	70.2	65.6	85.7	68.5	65.5
VT-10	70.0	92.9	68.9	65.5	81.3	67.5	65.4
VT-20	100.0	88.0	67.8	65.3	77.7	66.7	65.3
VT-30	130.0	86.6	67.3	65.3	76.6	66.3	65.2
VT-40	160.0	88.1	67.4	65.3	77.7	66.4	65.2
VT-50	190.0	94.1	68.1	65.3	81.4	66.9	65.3
FSDO-1	20.2	191.5	89.7	67.5	131.5	78.1	66.5
FSDO-3	26.2	152.4	81.5	66.7	115.9	74.6	66.1
FSDO-5	32.2	129.8	76.7	66.3	104.1	72.4	65.9
LCMS-1	6.2	351.5	108.3	68.6	160.3	85.7	67.2
LCMS-3	12.2	265.9	95.5	67.5	139.4	81.4	66.6
LCMS-5	18.2	204.3	86.5	66.8	125.3	77.6	66.2
CRGPS-1	5.5	321.5	101.8	68.2	164.6	84.1	67.2
CRGPS-3	11.5	263.9	92.9	67.1	146.3	79.7	66.4
CRGPS-5	17.5	208.4	85.5	66.6	126.9	76.3	66.1
FSDOG	1.5	495.6	120.0	75.8	262.4	107.6	71.4

The TSP Result for ASRs near Concrete Batching Plants

		AQO					
		500	260	80	500	260	80
ASRs	Height above ground (m)	Result with Background (65.2 µg/m3)					
		Unmitigated Scenario			Mitigated Scenario		
		1hr TSP	24hr TSP	Annual TSP	1hr TSP	24hr TSP	Annual TSP
GB	15	197.2	95.3	69.0	122.5	76.6	66.4
	20	162.0	85.9	67.7	113.8	74.7	66.2
	25	140.7	80.4	67.0	106.1	73.1	66.0
ASD	15	205.0	93.7	68.6	122.9	77.7	66.6
	20	157.2	84.6	67.5	112.5	75.5	66.3
	25	138.2	79.6	66.8	106.7	73.7	66.1
FSDO	20	193.2	90.1	67.6	132.1	78.3	66.5
	25	158.9	82.7	66.9	118.7	75.1	66.2
LCMS	15	233.4	91.0	67.1	131.7	79.6	66.4
	20	190.6	84.4	66.7	121.9	76.6	66.2
CRGPS	15	230.5	88.4	66.8	134.8	77.6	66.2
	20	190.8	82.9	66.5	121.6	75.1	66.0