

APPENDIX B

EMISSIONS CALCULATIONS

APPENDIX B

OPTIONAL CONTROL STRATEGY

Concrete Curing Compounds with a VOC Limit of 150 g/l Effective 7/1/07 (w/o ≤ qts)

Waterborne

CA 2000 Adjusted Survey Data > 100 and < 270		CA Projected Data at Proposed VOC Limit of 150		Emission Reduction	
Volume Sold in Gallons per Year	208,812	Projected Sales Volume in Gallons per Year	272,601	Tons per year	Tons per Day
SWA VOC Material (g/l)	61	VOC Material (g/l) <i>WB Data</i>	26		
SWA VOC Coating (g/l)	201	VOC Regulatory Limit (g/l)	150		
SWA Volume Fraction VOC	0.10	Calcd Volume Fraction VOC	0.03		
SWA Volume Fraction Water or Exempt Solvent	0.70	Calcd Volume Fraction Water or Exempt Solvent	0.82		
SWA Volume Fraction Solids	0.20	Calcd Volume Fraction Solids	0.15		
Emissions (Tons/Year)	52.82	Emissions (Tons/Year)	29.53	23.3	0.064

CA Adjusted 2000 CARB Survey Sales 208,812

CA Adjusted Emission Inventory in tpy 53

AQMD Adjusted Sales 93,965

AQMD Adjusted Emission Inventory 24

AQMD Projected Sales 122,670

AQMD Projected Emission Inventory 13.29

Average VOC Solvent Density (g/l) 880

Projected sales volumes are based on volume fraction solids

To adjust the sales volume and emissions for concrete-curing compounds for roadways, bridges and bridge decks, staff has removed the solvent based and waterbased products at 270 g/l and above from the state inventory.

This is the data used in the Draft Staff Report for emissions, cost-effectiveness and incremental cost-effectiveness calculations

AQMD Total Emission Reduction 10 0.03

Concrete Curing Compounds with a VOC Limit of 100 g/l Effective 7/1/07 (w/o ≤ qts)

Waterborne

CA 2000 Adjusted Survey Data > 100 and < 270		CA Projected Data at Proposed VOC Limit of 100		Emission Reduction	
Volume Sold in Gallons per Year	248,468	Projected Sales Volume in Gallons per Year	226,862	Tons per year	Tons per Day
SWA VOC Material (g/l)	57	VOC Material (g/l) <i>WB Data</i>	27		
SWA VOC Coating (g/l)	192	VOC Regulatory Limit (g/l)	100		
SWA Volume Fraction VOC	0.08	Calcd Volume Fraction VOC	0.03		
SWA Volume Fraction Water or Exempt Solvent	0.71	Calcd Volume Fraction Water or Exempt Solvent	0.73		
SWA Volume Fraction Solids	0.21	Calcd Volume Fraction Solids	0.23		
Emissions (Tons/Year)	58.96	Emissions (Tons/Year)	25.52	33.4	0.092

CA Adjusted 2000 CARB Survey Sales 248,468

CA Adjusted Emission Inventory in tpy 59

AQMD Adjusted Sales 111,811

AQMD Adjusted Emission Inventory 27

AQMD Projected Sales 102,088

AQMD Projected Emission Inventory 11.48

Average VOC Solvent Density (g/l) 880

Projected sales volumes are based on volume fraction solids

To adjust the sales volume and emissions for concrete-curing compounds for roadways, bridges and bridge decks, staff has removed the solvent based and waterbased products at 270 g/l and above from the state inventory.

This is the data used in the Draft Staff Report for emissions, cost-effectiveness and incremental cost-effectiveness calculations

AQMD Total Emission Reduction 15 0.04

APPENDIX B

OPTIONAL CONTROL STRATEGY

Dry Fog Coatings with a VOC Limit of 250 g/l Effective 7/1/07 (w/o ≤ qts)

Waterborne

CA 2000 CARB Survey Data > 250 and ≤ 400		CA Projected Data at Proposed VOC Limit of 250		Emission Reduction	
Volume Sold in Gallons per Year	69,470	Projected Sales Volume in Gallons per Year	67,807	Tons per year	Tons per Day
SWA VOC Material (g/l)	254	SWA VOC Material (g/l) <i>WB Data</i>	159		
SWA VOC Coating (g/l)	357	VOC Regulatory Limit (g/l)	250		
SWA Volume Fraction VOC	0.33	Calcd Volume Fraction VOC	0.18		
SWA Volume Fraction Water or Exempt Solvent	0.29	Calcd Volume Fraction Water or Exempt Solvent	0.43		
SWA Volume Fraction Solids	0.38	Calcd Volume Fraction Solids	0.39		
Emissions (Tons/Year)	73.52	Emissions (Tons/Year)	44.92	28.60	0.08
AQMD Share				12.87	0.04

Solventborne

CA 2000 CARB Survey Data > 400		CA Adjusted Survey Data at AQMD VOC Limit of 400		Emission Reduction	
Volume Sold in Gallons per Year	2,847	Adjusted Sales Volume in Gallons per Year	2,556	Tons per year	Tons per Day
SWA VOC Material (g/l)	406	SWA VOC Material (g/l) <i>SB Data</i>	392		
SWA VOC Coating (g/l)	406	VOC Regulatory Limit (g/l)	400		
SWA Volume Fraction VOC	0.52	Calcd Volume Fraction VOC	0.45		
SWA Volume Fraction Water or Exempt Solvent	0.00	Calcd Volume Fraction Water or Exempt Solvent	0.02		
SWA Volume Fraction Solids	0.48	Calcd Volume Fraction Solids	0.53		
Emissions (Tons/Year)	4.81	Emissions (Tons/Year)	4.18		
		CA Projected Data at Proposed VOC Limit of 250			
CA Adjusted 2000 CARB Survey Sales	295,406	Projected Sales Volume in Gallons per Year	4,118		
CA Adjusted Emission Inventory in tpy	383	SWA VOC Material (g/l) <i>WB Data</i>	60		
AQMD Adjusted Sales	132,933	VOC Regulatory Limit (g/l)	150		
AQMD Adjusted Emission Inventory	172	Calcd Volume Fraction VOC	0.07		
AQMD Projected Sales	168,690	Calcd Volume Fraction Water or Exempt Solvent	0.60		
AQMD Projected Emission Inventory	55	Calcd Volume Fraction Solids	0.33		
		Emissions (Tons/Year)	1.03	3.15	0.009
CA 2000 CARB Survey Data > 100 and ≤ 400		CA Projected Data at Proposed VOC Limit of 250			
Volume Sold in Gallons per Year	223,380	Projected Sales Volume in Gallons per Year	302,940		
SWA VOC Material (g/l)	328	SWA VOC Material (g/l) <i>WB Data</i>	60		
SWA VOC Coating (g/l)	371	VOC Regulatory Limit (g/l)	150		
SWA Volume Fraction VOC	0.43	Calcd Volume Fraction VOC	0.07		
SWA Volume Fraction Water or Exempt Solvent	0.12	Calcd Volume Fraction Water or Exempt Solvent	0.60		
SWA Volume Fraction Solids	0.45	Calcd Volume Fraction Solids	0.33		
Emissions (Tons/Year)	305.16	Emissions (Tons/Year)	75.74	229.43	0.63
AQMD Share				104.66	0.29

Average VOC Solvent Density (gm/l) 880

Sales adjusted if coating VOC above current AQMD limit

Projected sales volumes are based on volume fraction solids

There are no WB dry fog coatings above 400 g/l listed in the 2001 Survey

This is the data used in the Draft Staff Report for emissions, cost-effectiveness and incremental cost-effectiveness calculations

AQMD Total Emission Reduction

118

0.32

APPENDIX B

PROPOSAL

Dry Fog Coatings with a VOC Limit of 150 g/l Effective 7/1/07 (w/o ≤ qts)

Waterborne

CA 2000 CARB Survey Data > 100 and ≤ 400		CA Projected Data at Proposed VOC Limit of 150		Emission Reduction	
Volume Sold in Gallons per Year	79,241	Projected Sales Volume in Gallons per Year	90,747	Tons per year	Tons per Day
SWA VOC Material (g/l)	228	SWA VOC Material (g/l) <i>WB Data</i>	60		
SWA VOC Coating (g/l)	334	VOC Regulatory Limit (g/l)	150		
SWA Volume Fraction VOC	0.28	Calcd Volume Fraction VOC	0.07		
SWA Volume Fraction Water or Exempt Solvent	0.34	Calcd Volume Fraction Water or Exempt Solvent	0.60		
SWA Volume Fraction Solids	0.38	Calcd Volume Fraction Solids	0.33		
Emissions (Tons/Year)	75.78	Emissions (Tons/Year)	22.69	53.09	0.15
AQMD Share				23.89	0.07

Solventborne

CA 2000 CARB Survey Data > 400		CA Adjusted Survey Data at AQMD VOC Limit of 400		Emission Reduction	
Volume Sold in Gallons per Year	2,847	Adjusted Sales Volume in Gallons per Year	2,556	Tons per year	Tons per Day
SWA VOC Material (g/l)	406	SWA VOC Material (g/l) <i>SB Data</i>	392		
SWA VOC Coating (g/l)	406	VOC Regulatory Limit (g/l)	400		
SWA Volume Fraction VOC	0.52	Calcd Volume Fraction VOC	0.45		
SWA Volume Fraction Water or Exempt Solvent	0.00	Calcd Volume Fraction Water or Exempt Solvent	0.02		
SWA Volume Fraction Solids	0.48	Calcd Volume Fraction Solids	0.53		
Emissions (Tons/Year)	4.81	Emissions (Tons/Year)	4.18		
		CA Projected Data at Proposed VOC Limit of 150			
CA Adjusted 2000 CARB Survey Sales	305,177	Projected Sales Volume in Gallons per Year	4,118		
CA Adjusted Emission Inventory in tpy	385	SWA VOC Material (g/l) <i>WB Data</i>	60		
AQMD Adjusted Sales	137,330	VOC Regulatory Limit (g/l)	150		
AQMD Adjusted Emission Inventory	173	Calcd Volume Fraction VOC	0.07		
AQMD Projected Sales	179,013	Calcd Volume Fraction Water or Exempt Solvent	0.60		
AQMD Projected Emission Inventory	45	Calcd Volume Fraction Solids	0.33		
		Emissions (Tons/Year)	1.03	3.15	0.009
CA 2000 CARB Survey Data > 100 and ≤ 400		CA Projected Data at Proposed VOC Limit of 150			
Volume Sold in Gallons per Year	223,380	Projected Sales Volume in Gallons per Year	302,940		
SWA VOC Material (g/l)	328	SWA VOC Material (g/l) <i>WB Data</i>	60		
SWA VOC Coating (g/l)	371	VOC Regulatory Limit (g/l)	150		
SWA Volume Fraction VOC	0.43	Calcd Volume Fraction VOC	0.07		
SWA Volume Fraction Water or Exempt Solvent	0.12	Calcd Volume Fraction Water or Exempt Solvent	0.60		
SWA Volume Fraction Solids	0.45	Calcd Volume Fraction Solids	0.33		
Emissions (Tons/Year)	305.16	Emissions (Tons/Year)	75.74	229.43	0.63
AQMD Share				104.66	0.29

Average VOC Solvent Density (gm/l) 880

Sales adjusted if coating VOC above current AQMD limit

Projected sales volumes are based on volume fraction solids

There are no WB dry fog coatings above 400 g/l listed in the 2001 Survey

This is the data used in the Draft Staff Report for emissions, cost-effectiveness and incremental cost-effectiveness calculations

AQMD Total Emission Reduction

129

0.35

APPENDIX B

FINAL LIMIT

Nonflat High Gloss with a VOC Limit of 50 g/l Effective 7/1/07 (w/o ≤ qts)

Waterborne

CA 2000 CARB Survey Data > 150		CA Adjusted Survey Data at AQMD VOC Limit of 150		Emission Reduction			
Volume Sold in Gallons per Year	1,058,851	Adjusted Sales Volume in Gallons per Year	957,317	Tons per year	Tons per Day		
SWA VOC Actual (g/l)	95	SWA VOC Material (g/l) <i>WB Data</i>	68				
SWA VOC Regulatory (g/l)	215	VOC Regulatory Limit (g/l)	150				
SWA Volume Fraction VOC	0.09	Calcd Volume Fraction VOC	0.08				
SWA Volume Fraction Water or Exempt Solvent	0.55	Calcd Volume Fraction Water or Exempt Solvent	0.55				
SWA Volume Fraction Solids	0.34	Calcd Volume Fraction Solids	0.38				
Emissions (Tons/Year)	420.73	Emissions (Tons/Year)	271.24				
		CA Projected Data at 2006 VOC Limit of 50					
		Projected Sales Volume in Gallons per Year	679,263				
		SWA VOC Material (g/l) <i>WB Data</i>	28				
		VOC Regulatory Limit (g/l)	50				
		Calcd Volume Fraction VOC	0.03				
		Calcd Volume Fraction Water or Exempt Solvent	0.44				
		Calcd Volume Fraction Solids	0.53				
		Emissions (Tons/Year)	79.25				
			191.99	0.53			
CA 2000 CARB Survey Data ≤ 150 and > 50		CA Projected Data at 2006 VOC Limit of 50					
Volume Sold in Gallons per Year	172,253	Adjusted Sales Volume in Gallons per Year	120,666				
SWA VOC Actual (g/l)	59	SWA VOC Material (g/l) <i>WB Data</i>	28				
SWA VOC Regulatory (g/l)	122	VOC Regulatory Limit (g/l)	50				
SWA Volume Fraction VOC	0.10	Calcd Volume Fraction VOC	0.03				
SWA Volume Fraction Water or Exempt Solvent	0.52	Calcd Volume Fraction Water or Exempt Solvent	0.44				
SWA Volume Fraction Solids	0.37	Calcd Volume Fraction Solids	0.53				
Emissions (Tons/Year)	42.15	Emissions (Tons/Year)	14.08				
			28.07			0.08	
			CA			220.06	0.60
			AQMD			99.03	0.27

APPENDIX B

FINAL LIMIT

Nonflat High Gloss with a VOC Limit of 50 g/l Effective 7/1/07 (w/o ≤ qts)

Solventborne

CA 2000 CARB Survey Data > 150		CA Adjusted Survey Data at AQMD VOC Limit of 150		Emission Reduction	
Volume Sold in Gallons per Year	549,150	Adjusted Sales Volume in Gallons per Year	832,354	Tons per year	Tons per Day
SWA VOC Actual (g/l)	331	SWA VOC Material (g/l) <i>WB Data</i>	68		
SWA VOC Regulatory (g/l)	334	VOC Regulatory Limit (g/l)	150		
SWA Volume Fraction VOC	0.43	Calcd Volume Fraction VOC	0.08		
SWA Volume Fraction Water or Exempt Solvent	0.00	Calcd Volume Fraction Water or Exempt Solvent	0.55		
SWA Volume Fraction Solids	0.57	Calcd Volume Fraction Solids	0.38		
Emissions (Tons/Year)	756.40	Emissions (Tons/Year)	235.83		
		CA Projected Data at 2006 VOC Limit of 50		166.69	0.457
		Projected Sales Volume in Gallons per Year	592,628		
		SWA VOC Material (g/l) <i>WB Data</i>	28		
		VOC Regulatory Limit (g/l)	50		
		Calcd Volume Fraction VOC	0.03		
		Calcd Volume Fraction Water or Exempt Solvent	0.44		
		Calcd Volume Fraction Solids	0.53		
		Emissions (Tons/Year)	69.14	166.69	0.457
		AQMD		75.01	0.206

CA Adjusted 2000 CARB Survey Sales	1,961,924
CA Adjusted Emission Inventory in tpy	549
AQMD Adjusted Sales	882,866
AQMD Adjusted Emission Inventory	247
AQMD Projected Sales	626,651
AQMD Projected Emission Inventory	73

AQMD Total ER 174.04 0.48

Average VOC Solvent Density (gm/l) 880

Sales adjusted if coating VOC above current AQMD limit

Projected sales volumes are based on volume fraction solids

There are no SB HG nonflats between 50 and 150 g/l listed in the 2001 Survey

This is the data used for emissions calculations in the Draft Staff Report

APPENDIX B

INTERIM PROPOSAL

Quick-Dry Enamel VOC Limit of 150 g/l Effective 7/1/06 (w/o ≤ qts)

Waterborne

CA 2000 CARB Survey Data > 150 and ≤ 250		CA Projected Data at Proposed VOC Limit of 150		Emission Reduction	
Volume Sold in Gallons per Year	16,002	Projected Sales Volume in Gallons per Year	14,893	Tons per year	Tons per Day
SWA VOC Material (g/l)	109	SWA VOC Material (g/l) <i>Nonflat HG WB Data</i>	68		
SWA VOC Coating (g/l)	234	VOC Regulatory Limit (g/l)	150		
SWA Volume Fraction VOC	0.12	Calcd Volume Fraction VOC	0.08		
SWA Volume Fraction Water or Exempt Solvent	0.53	Calcd Volume Fraction Water or Exempt Solvent	0.55		
SWA Volume Fraction Solids	0.35	Calcd Volume Fraction Solids	0.38		
Emissions (Tons/Year)	7.28	Emissions (Tons/Year)	4.22	3.06	0.008
AQMD Share				1.38	0.004

Solventborne

CA 2000 CARB Survey Data > 250		CA Adjusted Survey Data at AQMD VOC Limit of 250		Emission Reduction	
Volume Sold in Gallons per Year	529,021	Adjusted Sales Volume in Gallons per Year	857,710	Tons per year	Tons per Day
SWA VOC Material (g/l)	382	SWA VOC Material (g/l) <i>WB Data</i>	112		
SWA VOC Coating (g/l)	383	VOC Regulatory Limit (g/l)	250		
SWA Volume Fraction VOC	0.48	Calcd Volume Fraction VOC	0.13		
SWA Volume Fraction Water or Exempt Solvent	0.00	Calcd Volume Fraction Water or Exempt Solvent	0.55		
SWA Volume Fraction Solids	0.52	Calcd Volume Fraction Solids	0.32		
Emissions (Tons/Year)	842.48	Emissions (Tons/Year)	400.26		
		CA Projected Data at Proposed VOC Limit of 150			
CA Adjusted 2000 CARB Survey Sales	932,806	Projected Sales Volume in Gallons per Year	731,507		
CA Adjusted Emission Inventory in tpy	439	SWA VOC Material (g/l) <i>Nonflat HG WB Data</i>	68		
AQMD Adjusted Sales	419,763	VOC Regulatory Limit (g/l)	150		
AQMD Adjusted Emission Inventory	198	Calcd Volume Fraction VOC	0.08		
AQMD Projected Sales	372,651	Calcd Volume Fraction Water or Exempt Solvent	0.55		
AQMD Projected Emission Inventory	106	Calcd Volume Fraction Solids	0.38		
		Emissions (Tons/Year)	207.26	193.00	0.529
CA 2000 CARB Survey Data > 150 and ≤ 250		CA Projected Data at Proposed VOC Limit of 150			
Volume Sold in Gallons per Year	59,094	Projected Sales Volume in Gallons per Year	81,713		
SWA VOC Material (g/l)	128	SWA VOC Material (g/l) <i>Nonflat HG WB Data</i>	68		
SWA VOC Coating (g/l)	170	VOC Regulatory Limit (g/l)	150		
SWA Volume Fraction VOC	0.24	Calcd Volume Fraction VOC	0.08		
SWA Volume Fraction Water or Exempt Solvent	0.24	Calcd Volume Fraction Water or Exempt Solvent	0.55		
SWA Volume Fraction Solids	0.52	Calcd Volume Fraction Solids	0.38		
Emissions (Tons/Year)	31.52	Emissions (Tons/Year)	23.15	8.37	0.023
		CA Total		201.37	0.552
		AQMD Share		90.62	0.248

Average VOC Solvent Density (gm/l) 880

Sales adjusted if coating VOC above current AQMD limit

Projected sales volumes are based on volume fraction solids

This is the data used for emissions calculations in the Draft Staff Report

AQMD Total Emission Reduction 91.99 0.252

Quick-Dry Enamel VOC Limit of 50 g/l Effective 7/1/07 (w/o ≤ qts)

Waterborne

CA Projected Data at Proposed VOC Limit of 150		CA Projected Data at Proposed VOC Limit of 50		Emission Reduction	
Projected Sales Volume in Gallons per Year	14,893	Projected Sales Volume in Gallons per Year	10,604	Tons per year	Tons per Day
SWA VOC Material (g/l) <i>Nonflat HG WB Data</i>	68	SWA VOC Material (g/l) <i>Nonflat HG WB Data</i>	28		
VOC Regulatory Limit (g/l)	150	VOC Regulatory Limit (g/l)	50		
Calcd Volume Fraction VOC	0.08	Calcd Volume Fraction VOC	0.03		
Calcd Volume Fraction Water or Exempt Solvent	0.55	Calcd Volume Fraction Water or Exempt Solvent	0.44		
Calcd Volume Fraction Solids	0.38	Calcd Volume Fraction Solids	0.53		
Emissions (Tons/Year)	4.22	Emissions (Tons/Year)	1.24	2.98	0.008
		AQMD Share		1.34	0.004

Solventborne

CA Projected Data at Proposed VOC Limit of 150		CA Projected Data at Proposed VOC Limit of 50		Emission Reduction	
Projected Sales Volume in Gallons per Year	813,219	Projected Sales Volume in Gallons per Year	579,005	Tons per year	Tons per Day
SWA VOC Material (g/l) <i>Nonflat HG WB Data</i>	68	SWA VOC Material (g/l) <i>Nonflat HG WB Data</i>	28		
VOC Regulatory Limit (g/l)	150	VOC Regulatory Limit (g/l)	50		
Calcd Volume Fraction VOC	0.08	Calcd Volume Fraction VOC	0.03		
Calcd Volume Fraction Water or Exempt Solvent	0.55	Calcd Volume Fraction Water or Exempt Solvent	0.44		
Calcd Volume Fraction Solids	0.38	Calcd Volume Fraction Solids	0.53		
Emissions (Tons/Year)	230.41	Emissions (Tons/Year)	67.55	162.86	0.446
		AQMD Share		73.29	0.201

CA Adjusted 2000 CARB Survey Sales	828,113
CA Adjusted Emission Inventory in tpy	235
AQMD Adjusted Sales	372,651
AQMD Adjusted Emission Inventory	106
AQMD Projected Sales	265,324
AQMD Projected Emission Inventory	31

AQMD Total Emission Reduction 74.63 0.204

Average VOC Solvent Density (gm/l) 880

Sales adjusted if coating VOC above current AQMD limit

Projected sales volumes are based on volume fraction solids

There are no WB QDE between 50 and 150 g/l listed in the 2001 Survey

This is the data used for emissions calculations in the Draft Staff Report

APPENDIX B

INTERIM PROPOSAL

Specialty Primers VOC Limit of 250 g/l Effective 7/1/06 (w/o ≤ qts)

Waterborne

CA 2000 CARB Survey Data > 250 and ≤ 350		CA Projected Data at Proposed VOC Limit of 250			
Volume Sold in Gallons per Year	14,826	Projected Sales Volume in Gallons per Year	13,537		
SWA VOC Material (g/l)	94	VOC Material (g/l) <i>WB Data</i>	80		
SWA VOC Coating (g/l)	318	VOC Regulatory Limit (g/l)	250		
SWA Volume Fraction VOC	0.08	Calcd Volume Fraction VOC	0.09		
SWA Volume Fraction Water or Exempt Solvent	0.71	Calcd Volume Fraction Water or Exempt Solvent	0.68		
SWA Volume Fraction Solids	0.21	Calcd Volume Fraction Solids	0.23		
Calcd Emissions (Tons/Year)	5.81	Emissions (Tons/Year)	4.51	1.295	0.004
AQMD Share				0.583	0.002

Solventborne

CA 2000 CARB Survey Data > 350		CA Adjusted Survey Data at AQMD VOC Limit of 350		Emission Reduction	
Volume Sold in Gallons per Year	88,687	Adjusted Sales Volume in Gallons per Year	66,264	Tons per year	Tons per Day
SWA VOC Material (g/l)	421	SWA VOC Material (g/l) <i>WB Data</i>	350		
SWA VOC Coating (g/l)	421	VOC Regulatory Limit (g/l)	350		
SWA Volume Fraction VOC	0.55	Calcd Volume Fraction VOC	0.40		
SWA Volume Fraction Water or Exempt Solvent	0.00	Calcd Volume Fraction Water or Exempt Solvent	0.00		
SWA Volume Fraction Solids	0.45	Calcd Volume Fraction Solids	0.60		
Emissions (Tons/Year)	155.57	Emissions (Tons/Year)	96.64		
		CA Projected Data at Proposed VOC Limit of 250			
CA Adjusted 2000 CARB Survey Sales	95,246	Projected Sales Volume in Gallons per Year	70,016		
CA Adjusted Emission Inventory in tpy	122	VOC Material (g/l) <i>SB Data</i>	250		
AQMD Adjusted Sales	42,861	VOC Regulatory Limit (g/l)	250		
AQMD Adjusted Emission Inventory	55	Calcd Volume Fraction VOC	0.28		
AQMD Projected Sales	43,969	Calcd Volume Fraction Water or Exempt Solvent	0.00		
AQMD Projected Emission Inventory	41	Calcd Volume Fraction Solids	0.57		
		Emissions (Tons/Year)	72.93	24	0.065
CA 2000 CARB Survey Data > 100 and ≤ 350		CA Projected Data at Proposed VOC Limit of 250			
Volume Sold in Gallons per Year	14,156	Projected Sales Volume in Gallons per Year	14,156		
SWA VOC Material (g/l)	336	VOC Material (g/l) <i>WB Data</i>	250		
SWA VOC Coating (g/l)	336	VOC Regulatory Limit (g/l)	250		
SWA Volume Fraction VOC	0.43	Calcd Volume Fraction VOC	0.28		
SWA Volume Fraction Water or Exempt Solvent	0.00	Calcd Volume Fraction Water or Exempt Solvent	0.00		
SWA Volume Fraction Solids	0.57	Calcd Volume Fraction Solids	0.57		
Emissions (Tons/Year)	19.82	Emissions (Tons/Year)	14.75	5.1	0.01
CA Total				30.1	0.08
AQMD Share				13.5	0.04

Average VOC Solvent Density (g/l) 880

Sales adjusted if coating VOC above current AQMD limit

Projected sales volumes are based on volume fraction solids

AQMD % of CARB 2003 Annual Report Sales 863,350

AQMD Estimated Emissions (tpd) from annual report 0.7

This is the data used for emissions calculations in the Draft Staff Report

AQMD Total Emission Reduction 14 0.04

APPENDIX B

FINAL LIMIT

Specialty Primers VOC Limit of 100 g/l Effective 7/1/07 (w/o ≤ qts)

Waterborne

CA Projected Data at Proposed VOC Limit of 250		CA Projected Data at Proposed VOC Limit of 100			
Projected Sales Volume in Gallons per Year	13,537	Projected Sales Volume in Gallons per Year	6,486		
VOC Material (g/l) <i>WB Data</i>	80	VOC Material (g/l) <i>WB Data</i>	53		
VOC Regulatory Limit (g/l)	250	VOC Regulatory Limit (g/l)	100		
Calcd Volume Fraction VOC	0.09	Calcd Volume Fraction VOC	0.06		
Calcd Volume Fraction Water or Exempt Solvent	0.68	Calcd Volume Fraction Water or Exempt Solvent	0.47		
Calcd Volume Fraction Solids	0.23	Calcd Volume Fraction Solids	0.48		
Emissions (Tons/Year)	4.51	Emissions (Tons/Year)	1.43	3.080	0.008
AQMD Share				1.386	0.004

Solventborne

CA Projected Data at Proposed VOC Limit of 250		CA Projected Data at Proposed VOC Limit of 100		Emission Reduction	
Volume Sold in Gallons per Year	84,172	Adjusted Sales Volume in Gallons per Year	99,954	Tons per year	Tons per Day
SWA VOC Material (g/l)	250	SWA VOC Material (g/l) <i>WB Data</i>	53		
SWA VOC Coating (g/l)	250	VOC Regulatory Limit (g/l)	100		
SWA Volume Fraction VOC	0.28	Calcd Volume Fraction VOC	0.06		
SWA Volume Fraction Water or Exempt Solvent	0.00	Calcd Volume Fraction Water or Exempt Solvent	0.47		
SWA Volume Fraction Solids	0.57	Calcd Volume Fraction Solids	0.48		
Emissions (Tons/Year)	87.68	Emissions (Tons/Year)	22.07	65.61	0.180
AQMD Share				29.5	0.081

CA Adjusted 2000 CARB Survey Sales	97,709
CA Adjusted Emission Inventory in tpy	92
AQMD Adjusted Sales	43,969
AQMD Adjusted Emission Inventory	41
AQMD Projected Sales	47,898
AQMD Projected Emission Inventory	11

AQMD Total Emission Reduction 31 0.08

Average VOC Solvent Density (g/l) 880

Sales adjusted if coating VOC above current AQMD limit

Projected sales volumes are based on volume fraction solids

This is the data used for emissions calculations in the Draft Staff Report

APPENDIX B

OPTIONAL CONTROL STRATEGY

Traffic Coatings with a VOC Limit of 125 g/l Effective 7/1/07 (w/o ≤ qts)

Waterborne

CA 2000 CARB Survey Data > 150		CA Adjusted Survey Data at AQMD VOC Limit of 150		Emission Reduction	
Volume Sold in Gallons per Year	25,258	Adjusted Sales Volume in Gallons per Year	26,914	Tons per year	Tons per Day
SWA VOC Material (g/l)	73	VOC Material (g/l) <i>WB Data</i>	56		
SWA VOC Coating (g/l)	179	VOC Regulatory Limit (g/l)	150		
SWA Volume Fraction VOC	0.07	Calcd Volume Fraction VOC	0.06		
SWA Volume Fraction Water or Exempt Solvent	0.60	Calcd Volume Fraction Water or Exempt Solvent	0.63		
SWA Volume Fraction Solids	0.33	Calcd Volume Fraction Solids	0.31		
Emissions (Tons/Year)	7.65	Emissions (Tons/Year)	6.28		
		CA Projected Data at Proposed VOC Limit of 125			
		Projected Sales Volume in Gallons per Year	15,180		
		VOC Material (g/l) <i>WB Data</i>	80		
		VOC Regulatory Limit (g/l)	125		
		Calcd Volume Fraction VOC	0.09		
		Calcd Volume Fraction Water or Exempt Solvent	0.36		
		Calcd Volume Fraction Solids	0.55		
		Emissions (Tons/Year)	3.88		
			2.40	0.007	
CA 2000 CARB Survey Data > 100 and ≤ 150		CA Projected Data at Proposed VOC Limit of 125			
Volume Sold in Gallons per Year	1,794,088	Projected Sales Volume in Gallons per Year	1,895,080		
SWA VOC Material (g/l)	87	SWA VOC Material (g/l) <i>WB Data</i>	80		
SWA VOC Coating (g/l)	130	VOC Regulatory Limit (g/l)	125		
SWA Volume Fraction VOC	0.11	Calcd Volume Fraction VOC	0.09		
SWA Volume Fraction Water or Exempt Solvent	0.31	Calcd Volume Fraction Water or Exempt Solvent	0.36		
SWA Volume Fraction Solids	0.58	Calcd Volume Fraction Solids	0.55		
Emissions (Tons/Year)	648.14	Emissions (Tons/Year)	631.69		
		CA Total		18.85	0.052
		AQMD Share		8.48	0.023

APPENDIX B

OPTIONAL CONTROL STRATEGY

Solventborne

CA 2000 CARB Survey Data > 150		CA Adjusted Survey Data at AQMD VOC Limit of 150		Emission Reduction	
Volume Sold in Gallons per Year	72,936	Adjusted Sales Volume in Gallons per Year	62,138	Tons per year	Tons per Day
SWA VOC Material (g/l)	386	VOC Material (g/l) <i>SB Data</i>	104		
SWA VOC Coating (g/l)	394	VOC Regulatory Limit (g/l)	150		
SWA Volume Fraction VOC	0.49	Calcd Volume Fraction VOC	0.12		
SWA Volume Fraction Water or Exempt Solvent	0.02	Calcd Volume Fraction Water or Exempt Solvent	0.31		
SWA Volume Fraction Solids	0.49	Calcd Volume Fraction Solids	0.58		
Emissions (Tons/Year)	117.44	Emissions (Tons/Year)	26.93		
		CA Projected Data at Proposed VOC Limit of 125			
CA Adjusted 2000 CARB Survey Sales	2,242,665	Projected Sales Volume in Gallons per Year	65,087		
CA Adjusted Emission Inventory in tpy	837	SWA VOC Material (g/l) <i>WB Data</i>	80		
AQMD Adjusted Sales	1,009,199	VOC Regulatory Limit (g/l)	125		
AQMD Adjusted Emission Inventory	377	Calcd Volume Fraction VOC	0.09		
AQMD Projected Sales	1,045,067	Calcd Volume Fraction Water or Exempt Solvent	0.36		
AQMD Projected Emission Inventory	348	Calcd Volume Fraction Solids	0.55		
		Emissions (Tons/Year)	21.70	5.23	0.01
CA 2000 CARB Survey Data > 100 and ≤ 150		CA Projected Data at Proposed VOC Limit of 125			
Volume Sold in Gallons per Year	359,525	Projected Sales Volume in Gallons per Year	347,025		
SWA VOC Material (g/l)	104	SWA VOC Material (g/l) <i>WB Data</i>	80		
SWA VOC Coating (g/l)	148	VOC Regulatory Limit (g/l)	125		
SWA Volume Fraction VOC	0.11	Calcd Volume Fraction VOC	0.09		
SWA Volume Fraction Water or Exempt Solvent	0.36	Calcd Volume Fraction Water or Exempt Solvent	0.36		
SWA Volume Fraction Solids	0.53	Calcd Volume Fraction Solids	0.55		
Emissions (Tons/Year)	155.79	Emissions (Tons/Year)	115.67	40.12	0.11
		CA Total		45.35	0.124
		AQMD Share		20.41	0.056

Average VOC Solvent Density (gm/l) 880

Sales adjusted if coating VOC above current AQMD limit

Projected sales volumes are based on volume fraction solids

This is the data used in the Draft Staff Report for emissions, cost-effectiveness and incremental cost-effectiveness calculations

AQMD Total Emission Reduction 28.89 0.08

Traffic Coatings with a VOC Limit of 100 g/l Effective 7/1/07 (w/o ≤ qts)

Waterborne

CA 2000 CARB Survey Data > 150		CA Adjusted Survey Data at AQMD VOC Limit of 150		Emission Reduction	
Volume Sold in Gallons per Year	25,258	Adjusted Sales Volume in Gallons per Year	26,914	Tons per year	Tons per Day
SWA VOC Material (g/l)	73	VOC Material (g/l) <i>WB Data</i>	56		
SWA VOC Coating (g/l)	179	VOC Regulatory Limit (g/l)	150		
SWA Volume Fraction VOC	0.07	Calcd Volume Fraction VOC	0.06		
SWA Volume Fraction Water or Exempt Solvent	0.60	Calcd Volume Fraction Water or Exempt Solvent	0.63		
SWA Volume Fraction Solids	0.33	Calcd Volume Fraction Solids	0.31		
Emissions (Tons/Year)	7.65	Emissions (Tons/Year)	6.28		
		CA Projected Data at Proposed VOC Limit of 100		2.40	0.007
		Projected Sales Volume in Gallons per Year	14,467		
		SWA VOC Material (g/l) <i>WB Data</i>	65		
		VOC Regulatory Limit (g/l)	100		
		Calcd Volume Fraction VOC	0.07		
		Calcd Volume Fraction Water or Exempt Solvent	0.35		
		Calcd Volume Fraction Solids	0.58		
		Emissions (Tons/Year)	3.88		
CA 2000 CARB Survey Data > 100 and ≤ 150		CA Projected Data at Proposed VOC Limit of 100		158.70	0.43
Volume Sold in Gallons per Year	1,800,648	Projected Sales Volume in Gallons per Year	1,812,723		
SWA VOC Material (g/l)	87	SWA VOC Material (g/l) <i>WB Data</i>	65		
SWA VOC Coating (g/l)	130	VOC Regulatory Limit (g/l)	100		
SWA Volume Fraction VOC	0.11	Calcd Volume Fraction VOC	0.07		
SWA Volume Fraction Water or Exempt Solvent	0.31	Calcd Volume Fraction Water or Exempt Solvent	0.35		
SWA Volume Fraction Solids	0.58	Calcd Volume Fraction Solids	0.58		
Emissions (Tons/Year)	649.65	Emissions (Tons/Year)	490.95		
		CA Total		161.10	0.441
		AQMD Share		72.50	0.199

Traffic Coatings with a VOC Limit of 100 g/l Effective 7/1/07 (w/o ≤ qts)

Solventborne

CA 2000 CARB Survey Data > 150		CA Adjusted Survey Data at AQMD VOC Limit of 150		Emission Reduction	
Volume Sold in Gallons per Year	72,936	Adjusted Sales Volume in Gallons per Year	62,138	Tons per year	Tons per Day
SWA VOC Material (g/l)	386	VOC Material (g/l) <i>SB Data</i>	104		
SWA VOC Coating (g/l)	394	VOC Regulatory Limit (g/l)	150		
SWA Volume Fraction VOC	0.49	Calcd Volume Fraction VOC	0.12		
SWA Volume Fraction Water or Exempt Solvent	0.02	Calcd Volume Fraction Water or Exempt Solvent	0.31		
SWA Volume Fraction Solids	0.49	Calcd Volume Fraction Solids	0.58		
Emissions (Tons/Year)	117.44	Emissions (Tons/Year)	26.93		
		CA Projected Data at Proposed VOC Limit of 100			
CA Adjusted 2000 CARB Survey Sales	2,249,225	Projected Sales Volume in Gallons per Year	62,032		
CA Adjusted Emission Inventory in tpy	839	SWA VOC Material (g/l) <i>WB Data</i>	65		
AQMD Adjusted Sales	1,012,151	VOC Regulatory Limit (g/l)	100		
AQMD Adjusted Emission Inventory	377	Calcd Volume Fraction VOC	0.07		
AQMD Projected Sales	998,981	Calcd Volume Fraction Water or Exempt Solvent	0.35		
AQMD Projected Emission Inventory	271	Calcd Volume Fraction Solids	0.58		
		Emissions (Tons/Year)	16.80	10.13	0.03
CA 2000 CARB Survey Data > 100 and ≤ 150		CA Projected Data at Proposed VOC Limit of 100			
Volume Sold in Gallons per Year	359,525	Projected Sales Volume in Gallons per Year	330,735		
SWA VOC Material (g/l)	104	SWA VOC Material (g/l) <i>WB Data</i>	65		
SWA VOC Coating (g/l)	148	VOC Regulatory Limit (g/l)	100		
SWA Volume Fraction VOC	0.11	Calcd Volume Fraction VOC	0.07		
SWA Volume Fraction Water or Exempt Solvent	0.36	Calcd Volume Fraction Water or Exempt Solvent	0.35		
SWA Volume Fraction Solids	0.53	Calcd Volume Fraction Solids	0.58		
Emissions (Tons/Year)	155.79	Emissions (Tons/Year)	89.57	66.22	0.18
		CA Total		76.34	0.209
		AQMD Share		34.35	0.094

Average VOC Solvent Density (gm/l) 880

Sales adjusted if coating VOC above current AQMD limit

AQMD Total Emission Reduction 106.85 0.29

Projected sales volumes are based on volume fraction solids

This is the data used in the Draft Staff Report for emissions, cost-effectiveness and incremental cost-effectiveness calculations