

Title V Air Permit Recordkeeping for Large Parts

Viking Pools, LLC - FLORIDA Facility ID 1010498

No small parts manufactured during this 12 month period.

Emissions Unit # 1010498-001 Fiberglass Pool Manufacturing

April 2011

Summer Days Operated
61

Monthly Material Usage (in tons)

Rolling Twelve Month Period

Application Method	JAN '11	FEB '11	MAR '11	APR '11	MAY '10	OZONE SEASON								12 month Totals	Total Resin	All Resins
						JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10				
Polyester Resin (GP)	Non-Atomized	7.38	9.68	9.66	20.76	12.78	5.99	11.25	9.14	6.76	7.49	3.62	2.41	106.90	190.52	0.80
Vinyl Ester Resin (VE)	Non-Atomized	0.54	7.28	5.43	13.20	13.10	5.36	6.64	7.74	4.83	3.44	5.43	4.83	77.62		
Hot Resin (Ceramic)	Atomized	1.01	0.00	1.01	0.00	0.76	0.50	1.01	1.26	0.25	0.00	0.00	0.00	5.81	Total Gelcoat	All Gelcoats
Clear Gelcoat	Atomized	2.33	0.90	1.17	3.88	3.37	1.78	2.02	3.20	0.79	1.99	1.85	1.19	24.46		
Color Gelcoat	Atomized	1.81	1.88	1.76	6.88	3.67	2.47	1.62	1.05	0.62	1.49	2.16	1.04	26.44	51.45	0.20
Tooling Gelcoat	Atomized	0.07	0.09	0.11	0.00	0.02	0.02	0.08	0.05	0.09	0.01	0.00	0.01	0.55		
Mold Release Wax/Sealer		0.0102	0.0205	0.0409	0.1023	0.0205	0.0205	0.0614	0.0205	0.0205	0.0859	0.0000	0.0102	0.4131		0.0017
Adhesives / Grout		0.0825	0.1125	0.0825	0.2025	0.2175	0.0750	0.0609	0.1275	0.0150	0.0525	0.1388	0.0338	1.2000		0.0043
Catalyst		0.2658	0.0275	0.2880	0.7040	0.4080	0.3280	0.3960	0.4120	0.1720	0.2720	0.2960	0.4908	4.0690		0.0186
Mold Cleaner		0.0000	0.0149	0.0000	0.0298	0.0000	0.0000	0.0000	0.0000	0.0074	0.0074	0.0074	0.0074	0.0744		0.0000
Production Cleaner (Acetone)	Acetone Only	0.36	0.36	0.36	0.31	0.81	0.35	0.45	0.53	0.32	0.40	0.35	0.18	4.78		

Monthly VOC Emissions (in tons)

Annual Limit (tons) = 223 If emissions are within 10% of limit, daily records are required.

VOC % by Weight	JAN '11	FEB '11	MAR '11	APR '11	MAY '10	JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10	12 month Total VOC	Total Resin VOC	All Resins VOC	
Polyester Resin (GP)	32.0%	0.25	0.33	0.33	0.71	0.44	0.21	0.39	0.31	0.23	0.26	0.12	0.08	3.66	7.94	67.53
Vinyl Ester Resin (VE)	43.0%	0.03	0.37	0.28	0.67	0.67	0.27	0.34	0.39	0.25	0.18	0.28	0.25	3.97		
Hot Resin (Ceramic)	32.0%	0.05	0.00	0.05	0.00	0.04	0.03	0.05	0.07	0.01	0.00	0.00	0.00	0.31	Total Gelcoat VOC	All Gelcoats VOC
Clear Gelcoat	41.0%	0.50	0.19	0.25	0.83	0.72	0.38	0.43	0.65	0.17	0.42	0.39	0.25	5.21		
Color Gelcoat	37.0%	0.33	0.34	0.32	1.24	0.66	0.44	0.29	0.19	0.11	0.27	0.39	0.19	4.76	10.14	80.64
Tooling Gelcoat	50.0%	0.02	0.03	0.03	0.00	0.01	0.01	0.02	0.01	0.03	0.00	0.00	0.00	0.17		
Mold Release Wax/Sealer	90.0%	0.0092	0.0184	0.0368	0.0920	0.0203	0.0203	0.0609	0.0203	0.0203	0.0852	0.0000	0.0101	0.3939		3.3273
Adhesives / Grout	3.0%	0.0025	0.0034	0.0025	0.0061	0.0065	0.0025	0.0018	0.0038	0.0005	0.0016	0.0042	0.0010	0.0080		0.2582
Catalyst	67.0%	0.0027	0.0003	0.0030	0.0072	0.0042	0.0034	0.0041	0.0042	0.0018	0.0028	0.0030	0.0050	0.0417		0.3823
Mold Cleaner	100.0%	0.0000	0.0149	0.0000	0.0298	0.0000	0.0000	0.0000	0.0000	0.0074	0.0074	0.0074	0.0074	0.0744		0.0000
Production Cleaner (Acetone)	0.0%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
Total VOC Emissions per Month		1.19	1.30	1.30	3.58	2.56	1.36	1.59	1.69	0.83	1.22	1.20	0.80	18.63		

Within 10% or OVER Annual Limit? **NO**

Hours of Operation -----> 218 205 248 302 217 217 200 242 207 177 193 129 **2554**

Maximum permitted hours of Operation: 5824 Within Limit for hours of operation? **OK**

Title V Air Permit Recordkeeping for Large Parts

No small parts manufactured during this 12 month period.

Viking Pools, LLC - FLORIDA Facility ID 1010498
Emissions Unit # 1010498-001 Fiberglass Pool Manufacturing

April 2011

Note: If emissions are within 10% of limit, daily records are required. Otherwise, monthly is sufficient.

Individual HAP Emissions & TOTAL HAP Emissions - Annual Limit (tons) = 221

Total HAP Emissions Within 10% or OVER Annual Limit? **NO**

Monthly Styrene (in tons)	Styrene % by Weight	JAN '11	FEB '11	MAR '11	APR '11	MAY '10	JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10	12 month Total	
Polyester Resin (GP)	32.0%	0.25	0.33	0.33	0.71	0.44	0.21	0.39	0.31	0.23	0.26	0.12	0.08	3.68	Resin
Vinyl Ester Resin (VE)	43.0%	0.03	0.37	0.28	0.67	0.67	0.27	0.34	0.39	0.25	0.18	0.28	0.25	3.97	Styrene
Hot Resin (Ceramic)	32.0%	0.05	0.00	0.05	0.00	0.04	0.03	0.05	0.07	0.01	0.00	0.00	0.00	0.31	7.94
Clear Gelcoat	41.0%	0.39	0.15	0.20	0.65	0.57	0.30	0.34	0.54	0.13	0.33	0.31	0.20	4.11	Gelcoat
Color Gelcoat	32.0%	0.26	0.27	0.25	0.98	0.52	0.35	0.23	0.15	0.09	0.21	0.31	0.15	3.76	Styrene
Tooling Gelcoat	45.0%	0.02	0.02	0.03	0.00	0.01	0.01	0.02	0.01	0.02	0.00	0.00	0.00	0.15	8.02
Total Styrene ALL Materials		1.00	1.15	1.14	3.01	2.24	1.16	1.37	1.47	0.74	0.98	1.02	0.68	15.97	

Monthly MMA (in tons)	MMA % by Weight	JAN '11	FEB '11	MAR '11	APR '11	MAY '10	JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10	12 month Total	
Clear Gelcoat	6.0%	0.10	0.04	0.05	0.17	0.15	0.08	0.09	0.14	0.04	0.09	0.08	0.05	1.10	Gelcoat
Color Gelcoat	5.0%	0.07	0.07	0.07	0.26	0.14	0.09	0.06	0.04	0.02	0.06	0.08	0.04	0.99	MMA
Tooling Gelcoat	5.0%	0.0025	0.0034	0.0042	0.0000	0.0008	0.0008	0.0029	0.0017	0.0034	0.0004	0.0000	0.0004	0.02	2.11
Total MMA ALL Materials		0.10	0.04	0.05	0.17	0.15	0.08	0.09	0.14	0.04	0.09	0.08	0.05	2.11	

Monthly Dimethyl phthalate (in tons)	% by Weight	JAN '11	FEB '11	MAR '11	APR '11	MAY '10	JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10	12 month Total
Catalyst	66.0%	0.00007	0.00001	0.00008	0.00019	0.00011	0.00009	0.00010	0.00011	0.00005	0.00007	0.00008	0.00013	0.00107
Total Dimethyl Phthalate ALL Material		0.0001	0.0000	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	0.0000	0.0001	0.0001	0.0001	0.0011

Monthly Toluene (in tons)	% by Weight	JAN '11	FEB '11	MAR '11	APR '11	MAY '10	JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10	12 month Total
Adhesives / Grout	0.5%	0.0004	0.0006	0.0004	0.0010	0.0011	0.0004	0.0003	0.0006	0.0001	0.0003	0.0007	0.0002	0.0060
Mold Cleaner	50.0%	0.0000	0.0074	0.0000	0.0149	0.0000	0.0000	0.0000	0.0000	0.0037	0.0037	0.0037	0.0037	0.0372
Total Toluene ALL Materials		0.0004	0.0006	0.0004	0.0010	0.0011	0.0004	0.0003	0.0006	0.0001	0.0003	0.0007	0.0002	0.0432

Monthly o-Xylene (in tons)	% by Weight beginning Jan 2011	JAN '11	FEB '11	MAR '11	APR '11	MAY '10	JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10	12 month Total
Mold Release Wax/Sea	40.0%	0.0041	0.0082	0.0164	0.0409	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0695
Total o-Xylene ALL Materials		0.0041	0.0082	0.0164	0.0409	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0695

Monthly Methanol (in tons)	% by Weight beginning Jan 2011	JAN '11	FEB '11	MAR '11	APR '11	MAY '10	JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10	12 month Total
Mold Release Wax/Sea	10.0%	0.0010	0.0020	0.0041	0.0102	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0174
Total Methanol ALL Materials		0.0010	0.0020	0.0041	0.0102	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0174

Total HAP's (in tons)	Total HAP % by Weight	JAN '11	FEB '11	MAR '11	APR '11	MAY '10	JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10	12 month Total	
Polyester Resin (GP)	32.0%	0.25	0.33	0.33	0.71	0.44	0.21	0.39	0.31	0.23	0.26	0.12	0.08	3.65	Resin
Vinyl Ester Resin (VE)	43.0%	0.03	0.37	0.28	0.67	0.67	0.27	0.34	0.39	0.25	0.18	0.28	0.25	3.97	HAP
Hot Resin (Ceramic)	32.0%	0.05	0.00	0.05	0.00	0.04	0.03	0.05	0.07	0.01	0.00	0.00	0.00	0.31	7.94
Clear Gelcoat	47.0%	0.50	0.19	0.25	0.83	0.72	0.38	0.43	0.68	0.17	0.42	0.39	0.25	5.21	Gelcoat
Color Gelcoat	37.0%	0.33	0.34	0.32	1.24	0.66	0.44	0.29	0.19	0.11	0.27	0.39	0.19	4.76	HAP
Tooling Gelcoat	50.0%	0.02	0.03	0.03	0.00	0.01	0.01	0.02	0.01	0.03	0.00	0.00	0.00	0.17	10.14
Mold Release Wax/Sea	50.0%	0.0051	0.0102	0.0205	0.0511	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.087	
Adhesives / Grout	0.5%	0.0004	0.0006	0.0004	0.0010	0.0011	0.0004	0.0003	0.0006	0.0001	0.0003	0.0007	0.0002	0.006	
Catalyst	66.0%	0.0001	0.0000	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	0.0000	0.0001	0.0001	0.0001	0.001	
Mold Cleaner	50.0%	0.0000	0.0074	0.0000	0.0149	0.0000	0.0000	0.0000	0.0000	0.0037	0.0037	0.0037	0.0037	0.037	
Total HAP ALL Materials per Month		1.18	1.28	1.28	3.51	2.53	1.34	1.52	1.66	0.80	1.13	1.19	0.78	18.21	

Emissions Factors & Calculations

Material	Application Method	% Styrene	Styrene Emission Factor	lbs styrene emitted per ton of material	% MMA	lbs MMA emitted per ton of gelcoat
Polyester Resin	Mech. Non-Atomized	32.0%	.107 x .32 x 2000 = lbs emissions per ton of material	68		
Vinyl Ester Resin	Mech. Non-Atomized	43.0%	43% Styrene - EF taken directly from Unified Emis. table	102		
Ceramic (Hot Resin)	Mech. Atomized	32.0%	.169 x .32 x 2000 = lbs emissions per ton of material	108		
Clear Gelcoat	Mech. Atomized	41.0%	35% Styrene - EF taken directly from Unified Emis. table	336	6.0%	90
Color Gelcoat	Mech. Atomized	32.0%	.445 x .32 x 2000 = lbs emissions per ton of material	285	5.0%	75
Tooling Gelcoat	Mech. Atomized	45.0%	45% Styrene - EF taken directly from Unified Emis. table	543	5.0%	75

MMA Emissions factors for Gelcoats taken directly from Unified Emissions Table for Open Molding of Composites

WWW NESHAP Compliance
Most Recent 12 Months
April 2011

Viking Pools, LLC - FLORIDA Facility ID 1010498
Emissions Unit # 1010498-001 Fiberglass Pool Manufacturing

Total HAP Emissions for NESHAP Compliance
(in tons)

	Total HAP % by Weight	JAN '11	FEB '11	MAR '11	APR '11	MAY '10	JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10	12 month Total per Material	
Polyester Resin (GP)	32.0%	0.25	0.33	0.33	0.71	0.44	0.21	0.39	0.31	0.23	0.26	0.12	0.08	3.66	Resin HAP 9.23
Vinyl Ester Resin (VE)	43.0%	0.04	0.49	0.37	0.89	0.88	0.36	0.45	0.52	0.33	0.23	0.37	0.33	5.25	
Hot Resin (Ceramic)	32.0%	0.05	0.00	0.05	0.00	0.04	0.03	0.05	0.07	0.01	0.00	0.00	0.00	0.31	
Clear Gelcoat	47.0%	0.68	0.26	0.34	1.13	0.98	0.52	0.59	0.93	0.23	0.58	0.54	0.35	7.15	Gelcoat HAP 12.31
Color Gelcoat	37.0%	0.34	0.35	0.33	1.30	0.69	0.47	0.30	0.20	0.12	0.28	0.41	0.19	4.98	
Tooling Gelcoat	50.0%	0.02	0.03	0.04	0.00	0.01	0.01	0.03	0.01	0.03	0.00	0.00	0.00	0.18	
Total HAP per Month		1.39	1.47	1.46	4.03	3.05	1.59	1.81	2.05	0.95	1.35	1.44	0.95		

Total 12-month HAP Emissions 21.53

Emissions Factors for total HAP emissions
(from table 1 to Subpart WWW of Part 63)

Material	Total % HAP	Total HAP EF (lbs/ton)
Polyester Resin (GP)	32.0%	68
Vinyl Ester Resin (VE)	43.0%	135
Hot Resin (Ceramic)	32.0%	108
Clear Gelcoat	47.0%	584
Color Gelcoat	37.0%	377
Tooling Gelcoat	50.0%	646

WWW NESHAP Compliance Most Recent 12 Months		Total 12 Month Usage (tons)	Total 12 Month Organic HAP (lbs)	NESHAP Table 3 Emissions Limit (lb/ton)
Polyester Resin (GP)	Open Molding- CR/HS Resin	106.90	7,320	113
Vinyl Ester Resin (VE)	Open Molding- CR/HS Resin	77.82	10,507	113
Hot Resin (Ceramic)	Open Molding- CR/HS Resin	5.81	628	113
Clear Gelcoat	Open Molding - CR/HS Gelcoat	24.46	14,293	605
Color Gelcoat	Open Molding - CR/HS Gelcoat	26.44	9,961	605
Tooling Gelcoat	Open Molding - Tooling Gelcoat	0.55	357	440
TOTALS---->		241.97	43,066	

Weighted Average NESHAP Emission Limit (lb/ton) = 217
Weighted Average Actual Emission Factor (lb/ton) = 178

COMPLIANT

**Title V Air Permit Recordkeeping for Large Parts
April 2011**

Viking Pools, LLC - FLORIDA Facility ID 1010498
EU # 1010498-001 Fiberglass Pool Manufacturing

Material Properties beginning January 2011

	Density	% Solids	% VOC	% Styrene	% MMA	% Dimethyl phthalate	% Toluene	% o- Xylene	% Methanol	Total HAP %	Resin & Gelcoat Emissions Factors lb/ton	
											Styrene	MMA
Polyester Resin (GP)	9.18	68.0%	32.0%	32.0%	0.0%	0.0%	0.0%	0.0%	0.0%	32.0%	68	0
Vinyl Ester Resin (VE)	9.18	55.0%	43.0%	43.0%	0.0%	0.0%	0.0%	0.0%	0.0%	43.0%	102	0
Hot Resin (Ceramic)	9.18	60.0%	32.0%	32.0%	0.0%	0.0%	0.0%	0.0%	0.0%	32.0%	108	0
Clear Gelcoat	8.86	60.0%	41.0%	41.0%	6.0%	0.0%	0.0%	0.0%	0.0%	47.0%	336	90
Color Gelcoat	10.27	65.0%	37.0%	32.0%	5.0%	0.0%	0.0%	0.0%	0.0%	37.0%	285	75
Tooling Gelcoat	8.91	50.0%	60.0%	45.0%	5.0%	0.0%	0.0%	0.0%	0.0%	50.0%	543	75
Mold Release Wax/Sealer	8.18		90.0%	0.0%	0.0%	0.0%	0.0%	40.0%	10.0%	50.0%	---	---
Adhesives / Grout	8.52		9.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.5%	---	---
Catalyst	8.41		67.0%	0.0%	0.0%	60.0%	0.0%	0.0%	0.0%	66.0%	---	---
Mold Cleaner	8.95		100.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	50.0%	---	---
Production Cleaner (Acetone)	6.6		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	---	---

PM and PM10 Calculations (Annual Usage x % Solids x 5% overspray x 5% escape from ventilation system)

<u>RESINS</u>	Annual Usage	% Solids	PM & PM 10 Emissions (tons)	
Polyester Resin (GP)	106.90	68.0%	0.1817283	Total PM Emissions for Resins 0.297438
Vinyl Ester Resin (VE)	77.82	55.0%	0.107000438	
Hot Resin (Ceramic)	5.81	60.0%	0.008709525	
<u>GELCOATS</u>				
Clear Gelcoat	24.46	60.0%	0.03669375	Total PM Emissions for Gelcoats 0.080343
Color Gelcoat	26.44	65.0%	0.042960125	
Tooling Gelcoat	0.55	50.0%	0.000689375	

FORM R Quantities

		TOTAL LBS. RESIN / GELCOAT	TOTAL LBS. STYRENE	Stack Emissions (Lbs) using Unified EF	Unified EF (lbs)
Polyester Resin (GP)	32%	213,798	68,415	7,320	68
Vinyl Ester Resin (VE)	43%	155,637	66,924	7,937	102
Hot Resin (Ceramic)	32%	11,613	3,716	628	108
Clear Gelcoat	41%	48,925	20,059	8,219	336
Color Gelcoat	32%	52,874	16,920	7,529	285
Tooling Gelcoat	45%	1,103	496	299	543
TOTAL		482,847	176,034	31,635	

Resin Catalized (lbs.)	for disposal	Average Styrene Content
		38%

Total Styrene >>>>>>>>>>	176,034
Stack Emissions >>>>>>>>>>	31,635
Waste Treated On-Site >>>	0
Solidified in Pools >>>>>>>>	144,400

Title V Air Permit Recordkeeping for Large Parts

Viking Pools, LLC - FLORIDA Facility ID 1010498

No small parts manufactured during this 12 month period.

Emissions Unit # 1010498-001 Fiberglass Pool Manufacturing

March 2011

Summer Days Operated
61

Monthly Material Usage (in tons) Rolling Twelve Month Period

Application Method	JAN '11	FEB '11	MAR '11	APR '10	MAY '10	OZONE SEASON			SEP '10	OCT '10	NOV '10	DEC '10	TOTALS 12 month Totals	Total Resin 175.65	All Resins 0.80
						JUN '10	JUL '10	AUG '10							
Polyester Resin (GP)	7.38	9.68	9.66	11.82	12.78	5.99	11.25	9.14	6.76	7.49	3.62	2.41	97.96	Total Resin 175.65	All Resins 0.80
Vinyl Ester Resin (VE)	0.54	7.28	5.43	6.00	13.10	5.36	6.64	7.74	4.83	3.44	5.43	4.83	70.63		
Hot Resin (Ceramic)	1.01	0.00	1.01	1.26	0.76	0.50	1.01	1.26	0.25	0.00	0.00	0.00	7.07	Total Gelcoat 46.46	All Gelcoats 0.20
Clear Gelcoat	2.33	0.90	1.17	3.60	3.37	1.78	2.02	3.20	0.79	1.99	1.85	1.19	24.18		
Color Gelcoat	1.81	1.88	1.76	2.13	3.67	2.47	1.52	1.05	0.62	1.49	2.16	1.04	21.69	Total Gelcoat 46.46	All Gelcoats 0.20
Tooling Gelcoat	0.07	0.09	0.11	0.05	0.02	0.02	0.05	0.03	0.09	0.01	0.00	0.01	0.60		
Mold Release Wax/Sealer	0.0102	0.0205	0.0409	0.0614	0.0205	0.0205	0.0614	0.0205	0.0205	0.0859	0.0000	0.0102	0.3722	Total Resin 175.65	All Resins 0.80
Adhesives / Grout	0.0825	0.1125	0.0825	0.1481	0.2175	0.0750	0.0600	0.1275	0.0150	0.0525	0.1388	0.0338	1.1456		
Catalyst	0.2658	0.0275	0.2880	0.4240	0.4080	0.3280	0.3960	0.4120	0.1720	0.2720	0.2960	0.4908	3.7800	Total Resin 175.65	All Resins 0.80
Mold Cleaner	0.0000	0.0149	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0074	0.0074	0.0074	0.0074	0.0446		
Production Cleaner (Acetone)	0.36	0.36	0.36	0.36	0.81	0.35	0.45	0.53	0.32	0.40	0.35	0.18	4.83	Total Resin 175.65	All Resins 0.80
Acetone Only															

Monthly VOC Emissions (in tons)

Annual Limit (tons) = 223 If emissions are within 10% of limit, daily records are required.

VOC % by Weight	JAN '11	FEB '11	MAR '11	APR '10	MAY '10	JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10	TOTALS 12 month Total VOC	Total Resin VOC	All Resins VOC
Polyester Resin (GP)	0.25	0.33	0.33	0.40	0.44	0.21	0.39	0.31	0.23	0.26	0.12	0.08	3.85	Total Resin VOC	All Resins VOC
Vinyl Ester Resin (VE)	0.03	0.37	0.28	0.31	0.67	0.27	0.34	0.39	0.25	0.18	0.28	0.25	3.50		
Hot Resin (Ceramic)	0.05	0.00	0.05	0.07	0.04	0.03	0.05	0.07	0.01	0.00	0.00	0.00	0.38	Total Gelcoat VOC	All Gelcoats VOC
Clear Gelcoat	0.50	0.19	0.25	0.77	0.72	0.38	0.43	0.68	0.17	0.42	0.39	0.25	5.15		
Color Gelcoat	0.33	0.34	0.32	0.38	0.66	0.44	0.29	0.19	0.11	0.27	0.39	0.19	3.90	Total Gelcoat VOC	All Gelcoats VOC
Tooling Gelcoat	0.02	0.03	0.03	0.01	0.01	0.01	0.02	0.01	0.03	0.00	0.00	0.00	0.18		
Mold Release Wax/Sealer	0.0092	0.0184	0.0368	0.0609	0.0203	0.0203	0.0609	0.0203	0.0203	0.0852	0.0000	0.0101	0.3628	Total Resin VOC	All Resins VOC
Adhesives / Grout	0.0025	0.0034	0.0025	0.0044	0.0065	0.0023	0.0018	0.0038	0.0005	0.0016	0.0042	0.0010	0.0344		
Catalyst	0.0027	0.0003	0.0030	0.0044	0.0042	0.0034	0.0041	0.0042	0.0018	0.0028	0.0030	0.0050	0.0388	Total Resin VOC	All Resins VOC
Mold Cleaner	0.0000	0.0149	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0074	0.0074	0.0074	0.0074	0.0446		
Production Cleaner (Acetone)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	Total Resin VOC	All Resins VOC
Total VOC Emissions per Month	1.19	1.30	1.30	2.01	2.56	1.36	1.59	1.69	0.83	1.22	1.20	0.80	17.05		

Within 10% or OVER Annual Limit? NO

Hours of Operation	218	205	248	233	217	217	200	242	207	177	193	129	2485
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Maximum permitted hours of Operation: 5824

Within Limit for hours of operation? OK

Title V Air Permit Recordkeeping for Large Parts

No small parts manufactured during this 12 month period.

Viking Pools, LLC - FLORIDA Facility ID 1010498
Emissions Unit # 1010498-001 Fiberglass Pool Manufacturing

March 2011

Note: If emissions are within 10% of limit, daily records are required. Otherwise, monthly is sufficient.

Individual HAP Emissions & TOTAL HAP Emissions - Annual Limit (tons) = 221

Total HAP Emissions Within 10% or OVER Annual Limit? **NO**

Monthly Styrene (in tons)	Styrene % by Weight	JAN '11	FEB '11	MAR '11	APR '10	MAY '10	JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10	12 month Total	
Polyester Resin (GP)	32.0%	0.25	0.33	0.33	0.40	0.44	0.21	0.39	0.31	0.23	0.26	0.12	0.08	3.35	Resin
Vinyl Ester Resin (VE)	43.0%	0.03	0.37	0.28	0.31	0.67	0.27	0.34	0.39	0.25	0.18	0.28	0.25	3.60	Styrene
Hot Resin (Ceramic)	32.0%	0.05	0.00	0.05	0.07	0.04	0.03	0.05	0.07	0.01	0.00	0.00	0.00	0.38	7.34
Clear Gelcoat	41.0%	0.39	0.15	0.20	0.60	0.57	0.30	0.34	0.54	0.13	0.33	0.31	0.20	4.08	Gelcoat
Color Gelcoat	32.0%	0.26	0.27	0.25	0.30	0.52	0.35	0.23	0.15	0.09	0.21	0.31	0.15	3.09	Styrene
Tooling Gelcoat	45.0%	0.02	0.02	0.03	0.01	0.01	0.01	0.02	0.01	0.02	0.00	0.00	0.00	0.16	7.31
Total Styrene ALL Materials		1.00	1.15	1.14	1.70	2.24	1.16	1.37	1.47	0.74	0.98	1.02	0.68	14.65	

Monthly MMA (in tons)	MMA % by Weight	JAN '11	FEB '11	MAR '11	APR '10	MAY '10	JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10	12 month Total	
Clear Gelcoat	6.0%	0.10	0.04	0.05	0.16	0.15	0.08	0.09	0.14	0.04	0.09	0.08	0.05	1.09	Gelcoat
Color Gelcoat	5.0%	0.07	0.07	0.07	0.08	0.14	0.09	0.06	0.04	0.02	0.06	0.08	0.04	0.81	MMA
Tooling Gelcoat	5.0%	0.0025	0.0034	0.0042	0.0017	0.0008	0.0008	0.0029	0.0017	0.0034	0.0004	0.0000	0.0004	0.02	1.92
Total MMA ALL Materials		0.10	0.04	0.05	0.16	0.15	0.08	0.09	0.14	0.04	0.09	0.08	0.05	1.92	

Monthly Dimethyl phthalate (in tons)	% by Weight	JAN '11	FEB '11	MAR '11	APR '10	MAY '10	JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10	12 month Total
Catalyst	66.0%	0.00007	0.00001	0.00008	0.00011	0.00011	0.00009	0.00010	0.00011	0.00005	0.00007	0.00008	0.00013	0.00100
Total Dimethyl Phthalate ALL Material		0.0001	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0001	0.0001	0.0001	0.0010

Monthly Toluene (in tons)	% by Weight	JAN '11	FEB '11	MAR '11	APR '10	MAY '10	JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10	12 month Total
Adhesives / Grout	0.5%	0.0004	0.0006	0.0004	0.0007	0.0011	0.0004	0.0003	0.0006	0.0001	0.0003	0.0007	0.0002	0.0057
Mold Cleaner	50.0%	0.0000	0.0074	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0037	0.0037	0.0037	0.0037	0.0223
Total Toluene ALL Materials		0.0004	0.0006	0.0004	0.0007	0.0011	0.0004	0.0003	0.0006	0.0001	0.0003	0.0007	0.0002	0.0280

Monthly o-Xylene (in tons)	% by Weight beginning Jan 2011	JAN '11	FEB '11	MAR '11	APR '10	MAY '10	JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10	12 month Total
Mold Release Wax/Sea	40.0%	0.0041	0.0082	0.0164	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0286
Total o-Xylene ALL Materials		0.0041	0.0082	0.0164	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0286

Monthly Methanol (in tons)	% by Weight beginning Jan 2011	JAN '11	FEB '11	MAR '11	APR '10	MAY '10	JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10	12 month Total
Mold Release Wax/Sea	10.0%	0.0010	0.0020	0.0041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0072
Total Methanol ALL Materials		0.0010	0.0020	0.0041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0072

Total HAP's (in tons)	Total HAP % by Weight	JAN '11	FEB '11	MAR '11	APR '10	MAY '10	JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10	12 month Total	
Polyester Resin (GP)	32.0%	0.25	0.33	0.33	0.40	0.44	0.21	0.39	0.31	0.23	0.26	0.12	0.08	3.35	Resin
Vinyl Ester Resin (VE)	43.0%	0.03	0.37	0.28	0.31	0.67	0.27	0.34	0.39	0.25	0.18	0.28	0.25	3.60	HAP
Hot Resin (Ceramic)	32.0%	0.05	0.00	0.05	0.07	0.04	0.03	0.05	0.07	0.01	0.00	0.00	0.00	0.38	7.34
Clear Gelcoat	47.0%	0.50	0.19	0.25	0.77	0.72	0.38	0.43	0.68	0.17	0.42	0.39	0.25	5.15	Gelcoat
Color Gelcoat	37.0%	0.33	0.34	0.32	0.38	0.66	0.44	0.29	0.19	0.11	0.27	0.39	0.19	3.90	HAP
Tooling Gelcoat	50.0%	0.02	0.03	0.03	0.01	0.01	0.01	0.02	0.01	0.03	0.00	0.00	0.00	0.18	9.24
Mold Release Wax/Sea	50.0%	0.0051	0.0102	0.0205	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.036	
Adhesives / Grout	0.5%	0.0004	0.0006	0.0004	0.0007	0.0011	0.0004	0.0003	0.0006	0.0001	0.0003	0.0007	0.0002	0.005	
Catalyst	66.0%	0.0001	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0001	0.0001	0.0001	0.001	
Mold Cleaner	50.0%	0.0000	0.0074	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0037	0.0037	0.0037	0.0037	0.022	
Total HAP ALL Materials per Month		1.18	1.28	1.28	1.94	2.53	1.34	1.52	1.66	0.80	1.13	1.19	0.78	16.64	

Emissions Factors & Calculations

Material	Application Method	% Styrene	Styrene Emissions	lbs Styrene emitted per ton of material	% MMA	lbs MMA emitted per ton of gelcoat
Polyester Resin	Mech. Non-Atomized	32.0%	.107 x .32 x 2000 = lbs emissions per ton of material	68		
Vinyl Ester Resin	Mech. Non-Atomized	43.0%	43% Styrene - EF taken directly from Unified Emiss. table	102		
Ceramic (Hot Resin)	Mech. Atomized	32.0%	.169 x .32 x 2000 = lbs emissions per ton of material	108		
Clear Gelcoat	Mech. Atomized	41.0%	35% Styrene - EF taken directly from Unified Emiss. table	336	6.0%	90
Color Gelcoat	Mech. Atomized	32.0%	.445 x .32 x 2000 = lbs emissions per ton of material	285	5.0%	75
Tooling Gelcoat	Mech. Atomized	45.0%	45% Styrene - EF taken directly from Unified Emiss. table	543	5.0%	75

MMA Emissions factors for Gelcoats taken directly from Unified Emissions Table for Open Molding of Composites

WWW NESHAP Compliance
Most Recent 12 Months
March 2011

Viking Pools, LLC - FLORIDA Facility ID 1010498
Emissions Unit # 1010498-001 Fiberglass Pool Manufacturing

Total HAP Emissions for NESHAP Compliance
(in tons)

	Total HAP % by Weight	JAN '11	FEB '11	MAR '11	APR '10	MAY '10	JUN '10	JUL '10	AUG '10	SEP '10	OCT '10	NOV '10	DEC '10	12 month Total per Material	
Polyester Resin (GP)	32.0%	0.25	0.33	0.33	0.40	0.44	0.21	0.39	0.31	0.23	0.26	0.12	0.08	3.35	Resin
Vinyl Ester Resin (VE)	43.0%	0.04	0.49	0.37	0.41	0.88	0.36	0.45	0.52	0.33	0.23	0.37	0.33	4.77	HAP
Hot Resin (Ceramic)	32.0%	0.05	0.00	0.05	0.07	0.04	0.03	0.05	0.07	0.01	0.00	0.00	0.00	0.38	8.50
Clear Gelcoat	47.0%	0.68	0.26	0.34	1.05	0.98	0.52	0.59	0.93	0.23	0.58	0.54	0.35	7.06	Gelcoat
Color Gelcoat	37.0%	0.34	0.35	0.33	0.40	0.69	0.47	0.30	0.20	0.12	0.28	0.41	0.19	4.09	HAP
Tooling Gelcoat	50.0%	0.02	0.03	0.04	0.01	0.01	0.01	0.03	0.01	0.03	0.00	0.00	0.00	0.19	11.34
Total HAP per Month		1.39	1.47	1.46	2.34	3.05	1.59	1.81	2.05	0.95	1.35	1.44	0.95		
Total 12-month HAP Emissions														19.85	

WWW NESHAP Compliance Most Recent 12 Months		Total 12 Month Usage (tons)	Total 12 Month Organic HAP (lbs)	NESHAP Table 3 Emissions Limit (lb/ton)
Polyester Resin (GP)	Open Molding- CR/HS Resin	97.96	6,708	113
Vinyl Ester Resin (VE)	Open Molding- CR/HS Resin	70.63	9,536	113
Hot Resin (Ceramic)	Open Molding- CR/HS Resin	7.07	765	113
Clear Gelcoat	Open Molding - CR/HS Gelcoat	24.18	14,128	605
Color Gelcoat	Open Molding - CR/HS Gelcoat	21.69	8,171	605
Tooling Gelcoat	Open Molding - Tooling Gelcoat	0.60	386	440
TOTALS---->		222.11	39,693	

Emissions Factors for total HAP emissions (from table 1 to Subpart WWW of Part 63)		
Material	Total % HAP	Total HAP EF (lbs/ton)
Polyester Resin (GP)	32.0%	68
Vinyl Ester Resin (VE)	43.0%	135
Hot Resin (Ceramic)	32.0%	108
Clear Gelcoat	47.0%	584
Color Gelcoat	37.0%	377
Tooling Gelcoat	50.0%	646

Weighted Average NESHAP Emission Limit (lb/ton) = 215
Weighted Average Actual Emission Factor (lb/ton) = 179

COMPLIANT

**Title V Air Permit Recordkeeping for Large Parts
March 2011**

Viking Pools, LLC - FLORIDA Facility ID 1010498
EU # 1010498-001 Fiberglass Pool Manufacturing

Material Properties beginning January 2011

	Density	% Solids	% VOC	% Styrene	% MMA	% Dimethyl phthalate	% Toluene	% o- Xylene	% Methanol	Total HAP %	Resin & Gelcoat Emissions Factors (lb/lb)	
											Styrene	MMA
Polyester Resin (GP)	9.18	68.0%	32.0%	32.0%	0.0%	0.0%	0.0%	0.0%	0.0%	32.0%	68	0
Vinyl Ester Resin (VE)	9.18	55.0%	43.0%	43.0%	0.0%	0.0%	0.0%	0.0%	0.0%	43.0%	102	0
Hot Resin (Ceramic)	9.18	60.0%	32.0%	32.0%	0.0%	0.0%	0.0%	0.0%	0.0%	32.0%	108	0
Clear Gelcoat	8.86	60.0%	41.0%	41.0%	6.0%	0.0%	0.0%	0.0%	0.0%	47.0%	336	90
Color Gelcoat	10.27	65.0%	37.0%	32.0%	5.0%	0.0%	0.0%	0.0%	0.0%	37.0%	285	75
Tooling Gelcoat	8.91	50.0%	50.0%	45.0%	5.0%	0.0%	0.0%	0.0%	0.0%	50.0%	543	75
Mold Release Wax/Sealer	9.18	90.0%	0.0%	0.0%	0.0%	0.0%	0.0%	40.0%	10.0%	50.0%	—	—
Adhesives / Grout	8.62	3.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.5%	0.5%	—	—
Catalyst	8.41	—	67.0%	0.0%	0.0%	66.0%	0.0%	0.0%	0.0%	66.0%	—	—
Mold Cleaner	5.95	—	100.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	50.0%	—	—
Production Cleaner (Acetone)	5.6	—	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	—	—

PM and PM10 Calculations (Annual Usage x % Solids x 5% overspray x 5% escape from ventilation system)

<u>RESINS</u>	Annual Usage	% Solids	PM & PM 10 Emissions (tons)	
Polyester Resin (GP)	97.96	68.0%	0.16652775	Total PM Emissions for Resins 0.274240
Vinyl Ester Resin (VE)	70.63	55.0%	0.097109375	
Hot Resin (Ceramic)	7.07	60.0%	0.0106029	
<u>GELCOATS</u>				
Clear Gelcoat	24.18	60.0%	0.0362715	Total PM Emissions for Gelcoats 0.072256
Color Gelcoat	21.69	65.0%	0.035238938	
Tooling Gelcoat	0.60	50.0%	0.000745625	

FORM R Quantities

	TOTAL LBS. RESIN / GELCOAT	TOTAL LBS. STYRENE	Stack Emissions (Lbs) using Unified EF	Unified EF (lbs)
Polyester Resin (GP)	32%	195,915	62,693	6,708
Vinyl Ester Resin (VE)	43%	141,250	60,738	7,204
Hot Resin (Ceramic)	32%	14,137	4,524	765
Clear Gelcoat	41%	48,362	19,828	8,125
Color Gelcoat	32%	43,371	13,879	6,176
Tooling Gelcoat	45%	1,193	537	324
TOTAL		443,036	161,661	28,977

Resin Catalized (lbs.)	for disposal	Average Styrene Content
		38%

Total Styrene >>>>>>>>>>>	161,661
Stack Emissions >>>>>>>>>>>	28,977
Waste Treated On-Site >>>	0
Solidified in Pools >>>>>>>	132,684