



## PAR1113 WORKING GROUP MEETING

October 30, 2014





### **OVERVIEW**

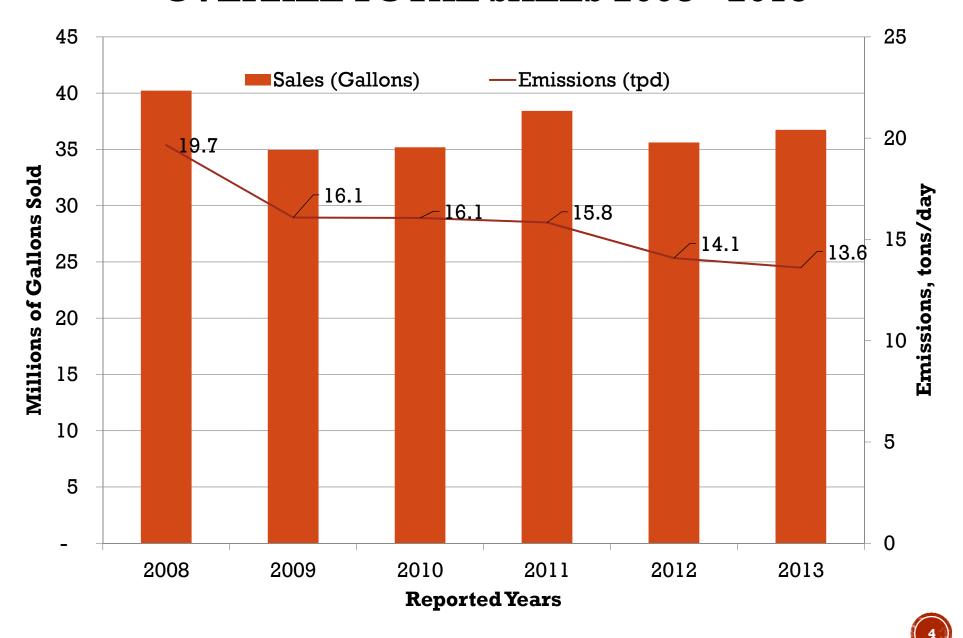
- Sales and Emissions Overview (2008 2012)
  - Flats/Non-Flats/PSU
  - Small Container Exemption
- Data Integrity
- Rule Clarification



# SALES AND EMISSIONS TRENDS

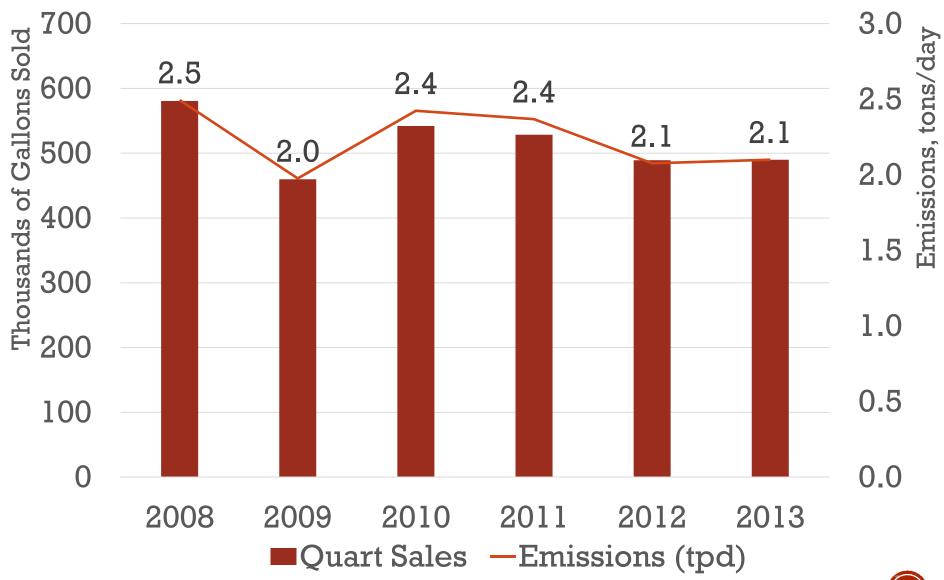
Summary of the Rule 314 data collected from 2008 – 2013

### OVERALL TOTAL SALES 2008 - 2013\*



<sup>\* 314</sup> Data + estimated colorant emissions

#### **Small Container Sales & Emissions\***



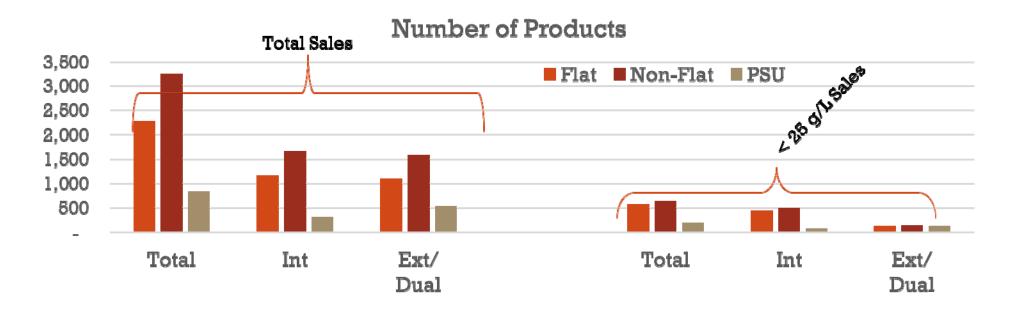
<sup>\*</sup> Does not include colorant

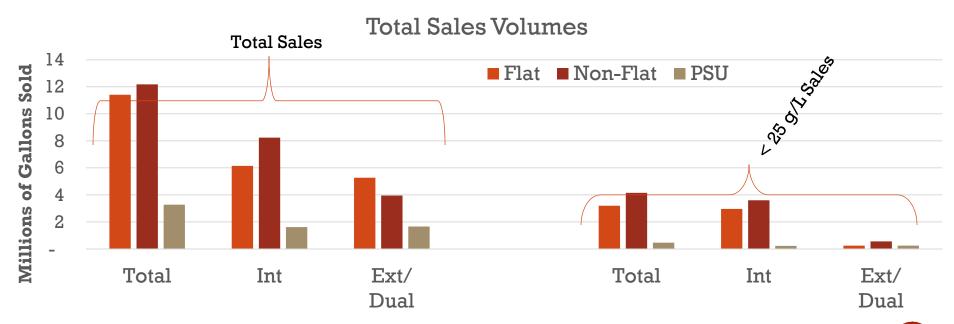
## FLAT, NON-FLAT, & PSU STATISTICS: 2013 SALES

## SALES WEIGHTED AVERAGE VOC

	SWA VOC Int (g/L)	SWA VOC Ext (g/L)	SWA VOC Dual (g/L)	Total Gallons Affected*	Emission Reduction* (25/50g/L)
FLAT	24	44	37	8,215,444	0.61
NON-FLAT	29	42	43	8,036,027	0.88
PSU (25G/L) PSU (50 G/L)	62	103	58	2,814,567/ 1,473,120	0.89/ 0.57

<sup>\*</sup> Everything above suggested limit (includes SCE)





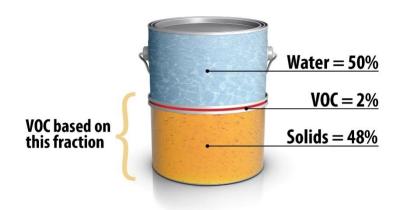
## 2013 SALES AND PRODUCT COUNT

#### **Number of Products**

	All Products			<25 g/L		
	Total	Int	Ext/ Dual	Total	Int	Ext/ Dual
Flat	2,268	1,165	1,103	25%	19%	6%
Non-Flat	3,243	1,661	1,582	20%	15%	4%
PSU	838	306	532	23%	9%	15%

#### Sales Volumes (gallons)

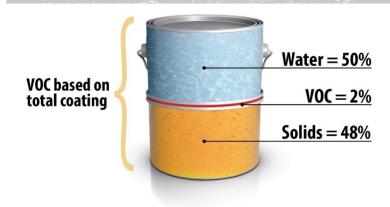
	All Products			<25 g/L		
			Ext/			Ext/
	Total	Int	Dual	Total	Int	Dual
Flat	11,411,136	6,145,642	5,265,494	28%	26%	2%
Non-Flat	12,182,540	8,234,218	3,948,322	34%	30%	5%
PSU	3,271,648	1,615,106	1,656,542	14%	7%	7%



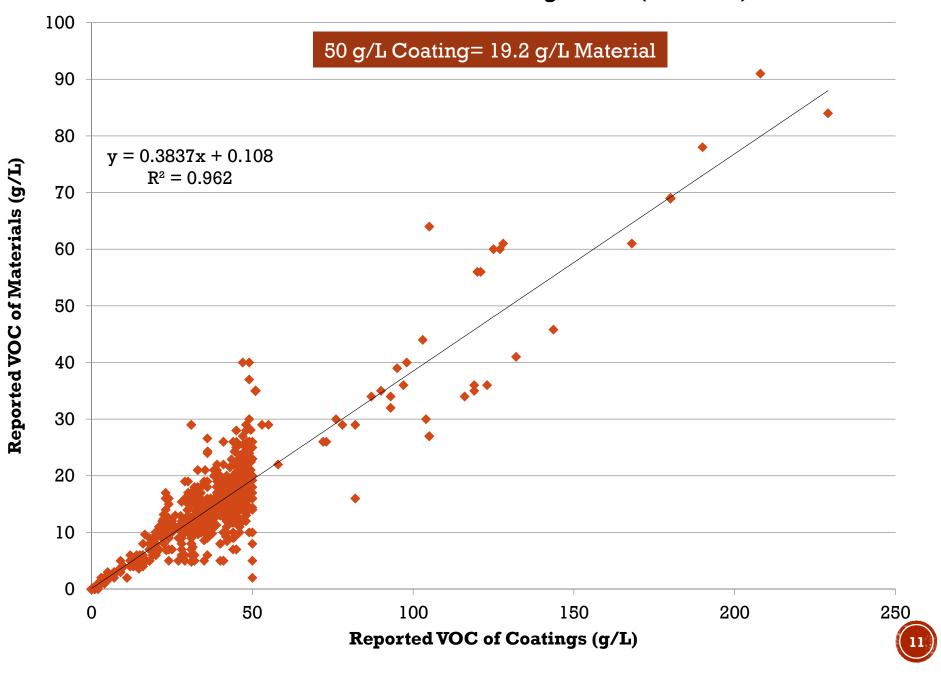
$$VOC_{coating} = \frac{(100\% - 48\% - 50\%)}{\left(\frac{100\%}{1.10 \, g/mL} - \frac{50\%}{0.997 \, g/mL}\right)} \times 1000 = 49 \, g/mL$$

## VOC METRIC

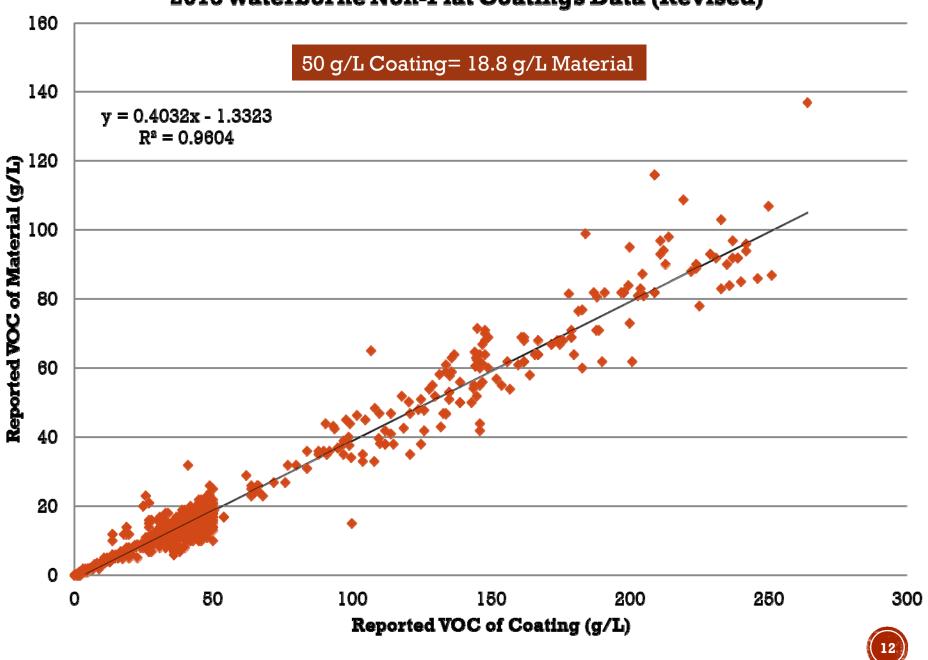
 $VOC_{Material} = (100\% - 48\% - 50\%) \times 1.10 \ g/mL \times 10 = 22 \ g/L$ 



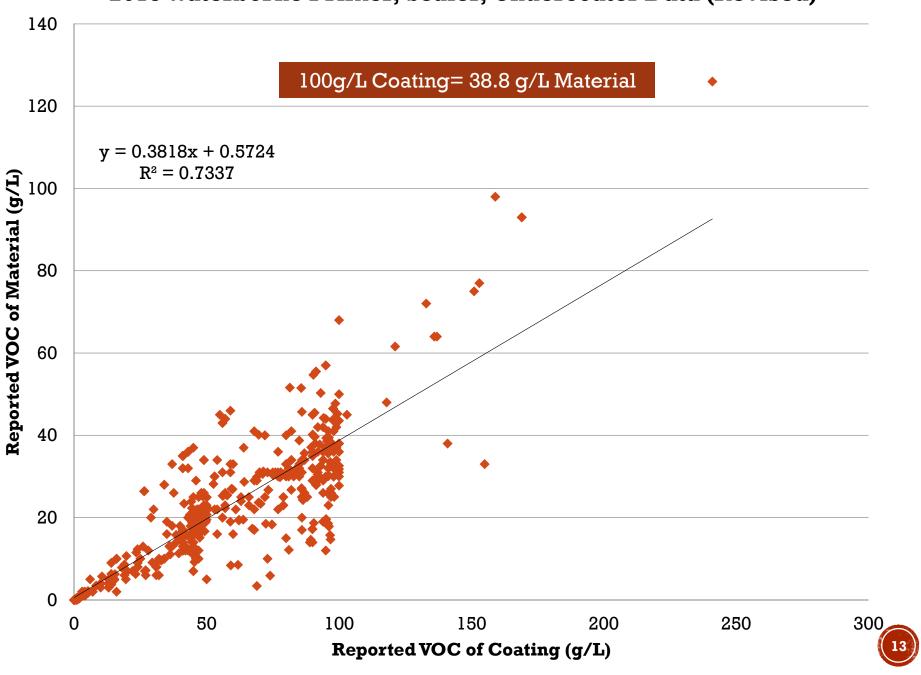
#### 2013 Waterborne Flat Coatings Data (Revised)



#### 2013 Waterborne Non-Flat Coatings Data (Revised)



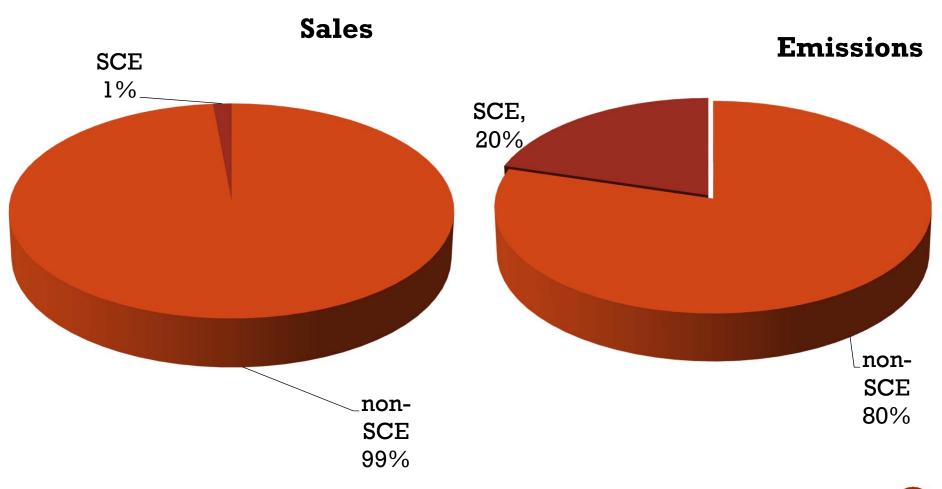
#### 2013 Waterborne Primer, Sealer, Undercoater Data (Revised)



# SMALL CONTAINER EXEMPTION (SCE)

Coating sold in one-liter or smaller containers above the VOC limit

## SCE VERSUS NON-SCE





## **SCE SALES - 2013**

Category	SCE Sales (gal)	SCE Emissions (tpd)	SCE SWA VOC (g/L)	Non-SCE Sales (gal)	Non-SCE SWA VOC (g/L)
RPC	157,714	0.74	407	174,008	81
Non-Flat	105,976	0.25	251	12,076,564	31
Stains, Interior*	97,842	0.59	520	102,936	108
PSU	69,228	0.36	439	3,202,420	43
WPCMS *	30,111	0.23	276	1,106,938	54

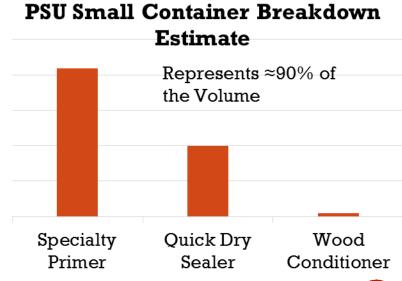
Includes numerous low solids coatings

## SCE SALES - 2013



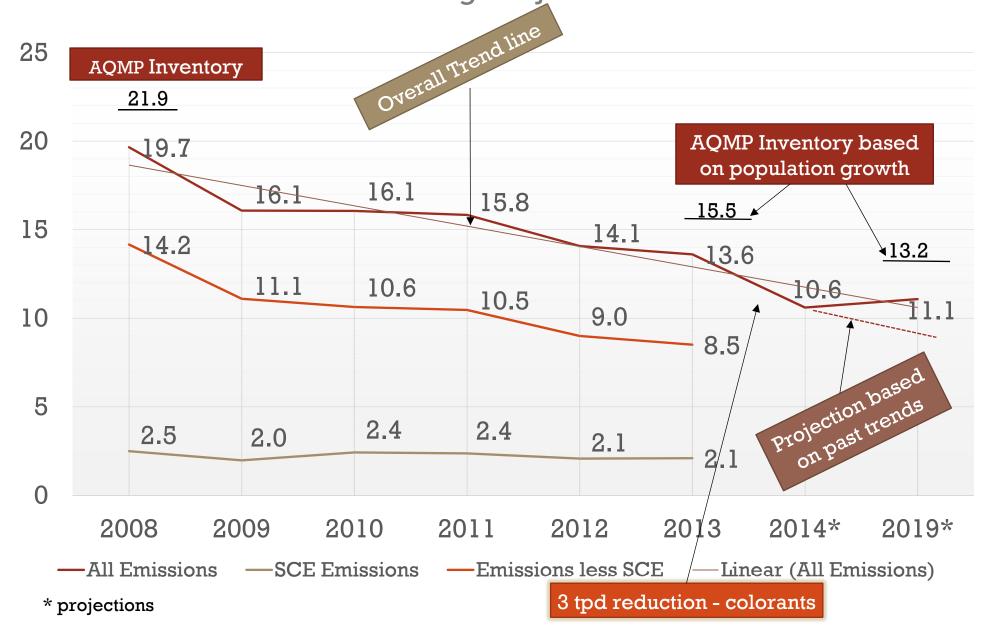
	Sales Vol	ıme (gal)	Emissions (tpd)		
	Dual &		Dual &		
Category	Exterior	Interior	Exterior	Interior	
Non-Flat	37,828	68,148	0.08	0.17	
PSU	60,626	8,602	0.30	0.06	
RPC	155,084	2,629	0.72	0.01	





## FUTURE EMISSIONS PROJECTIONS

Rule 314 Emissions Summary (tons/day) Including Projections



## INITIAL CONCEPTS GOING FORWARD: ENSURING EMISSIONS TRENDS CONTINUE

## RULE 314 DATA INTEGRITY

- Emissions inventory
  - Planning
  - SIP submittal
  - Modeling
- Audits
  - Increase # and frequency
- Rule amendments
  - Target categories for reductions
  - Sales Weighted Average VOC
  - Cost Impacts (sales volume)



## TRANSFER EFFICIENCY



- Collaborate with manufacturer/ contractors to improve transfer efficiency
  - Establish a training program for contractors
  - Work with retailers who offer rental equipment
    - Phase out older, less efficient guns/tips
    - Offer the laser system to assist DYI end user
- Work with spray gun manufacturers to make improvements to the gun (integrate the laser system)
- Explore a potential SCAQMD incentive program (e.g. provide free gun tips, laser guidance system and/or discounted guns to enhance transfer efficiency)

## INCREASE RULE 314 FEES

Through Carattines | Minacy | WellschalterSpeciation Tax

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AQMD

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oft the Role 214

Emissions Report.

- Revenue Neutral Approach
- Increase Emissions Fee to Incentivize the Sale of Lower-VOC Coatings
- Tiered Emission Fee Structure
  - Target higher-VOC products

## SCE RESTRICTIONS

- Revise exemptions for high volume categories
   & categories not using exemption
  - Further review of WPCMS/Interior Stains
- Set VOC ceiling limit
- Three year SCE allowance when a VOC limit is reduced
- Allow SCE for default category to address new/niche products
- Touch-up for factory applied coatings: allow shipment of 2 oz. containers to accompany pre-painted widgets (e.g. doors/windows)
- Potential Emission Reduction: ≈ 2 tons/day

## VOC REDUCTIONS

- Reduce VOC limits on high volume categories (25 g/L)
  - Flat
  - Non-Flat
  - PSU
- Potential Emission Reduction:
  - $\approx 2$  tons/day



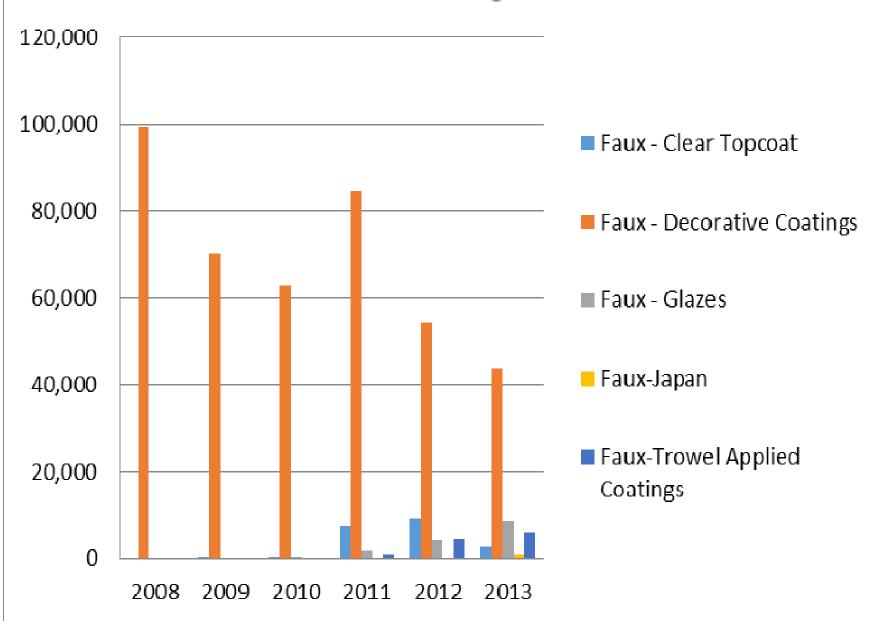
## OTHER POTENTIAL RULE AMENDMENTS

## PAR 1113 - CATEGORY CLARIFICATIONS

- Building Envelope/Foam Insulants
- Architectural Mold Release / Stamping Agents
  - Expand Definition of Form Release
- "Clear" Wood Finish → Wood Finish
  - Address white lacquers
- Reactive Penetrating Sealer
  - Reconsider 2% water vapor transmission rate requirement
- Faux Glazes
  - Revise Definition
  - Evaluate VOC Limits
  - Include Artistic Glaze and Architectural Glaze



## **Faux Coating Sales**



## PAR 1113 — FAUX GLAZE

- Remove wet-in-wet from definition
- Reduce VOC limit to 250

Include 'textured' to harmonize with the

SCM

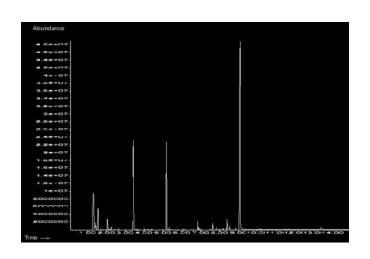
 Allow SCE to accommodate artistic glazes

Faux Category	SWA VOC Coating	Emissions (lb/day)	Total Sales (gallons)
Clear Topcoat	119	2.5	2,601
Decorative	144	78.9	43,837
Glaze	290	27.2	8,749
Japan	381	6.7	768
Trowel	86	6.5	6,142

## VOC TEST METHODOLOGY

- Include SCAQMD Laboratory Method 313
- Change VOC metric to VOC of material
  - Ongoing discussions with U.S. EPA/CARB
- Need industry support to further analyze exclusion principle





## EXEMPT COMPOUNDS

- OEHHA's final tBAc finding
  - tBAc approved for IM coatings only
  - Conduct survey of IM coating manufacturers
  - Potential tBAc phase out/VOC limit increase
- Potential toxicity determination for pCBtF
  - Conduct survey of solvent-based coating manufacturers
  - Potential pCBtF phase out/VOC limit increase for certain categories

### NEXT STEPS

- Schedule Next Meeting early December
  - Manufacturer Input on Amended Definitions
  - Draft Rule Language
  - Establish Direction and Timeline of the Amendment

