

## Example for Auto Body Shops and Car Dealers

### Credits for Waste Liquid Organic Materials

During 2007-2008 6-month transitional reporting period (7/1/2007-12/31/2007), D-Best Auto Body Shop operated a permitted spray booth and used 75 gallons of paint and 50 gallons of primer (MSDS lists the VOC contents as 4.7 lbs/gal), 20 gallons of reducer and 100 gallons of spray gun cleaning solvent.

During the 6-month transitional reporting period, the company had three (3) waste shipments picked up by a local waste recycler. The shipments contained the following:

- Waste clean-up solvents from spray gun cleaning operation:  
Manifest No. 99999999AAA: 150 pounds  
Manifest No. 99999998AAA: 25 gallons
- Waste paint-related materials: [The waste profile indicated 40% VOC containing liquid material (by weight), 60% solids]  
Manifest No. 99999997AAA: 110 pounds

### Steps to follow on FORM W: [Use one (1) line for each waste shipment]

#### 1. Column (a) : Manifest Document Number

- Enter the manifest numbers. (9999991 in line 1, 9999992 in line 2 and 9999993 in line 3).

#### 2. Column (b) : Material Description

- Enter the description of waste shipment (waste clean-up solvent or waste paint-related material).

#### 3. Column (c) : Liquid Material [decimal fraction]

- Enter 0.7 for 70% in decimal fraction for waste clean-up solvents (lines 1 and 2). [70 is the default solvent percent (by weight) allowed for waste shipments containing clean-up solvents. If claiming more than 70 percent solvent (by weight), you must provide a certified lab analysis for each waste shipment].
- **Note: The default solvent percent (70%) does not apply to waste shipments containing mostly paint waste and still bottom solids (greater than 15% solid by weight).**
- Enter 0.4 for 40% for waste paint-related materials (line 3). Use liquid material content as indicated in the waste profile.

#### 4. Column (d) : Quantity

- Enter 150 pounds in line 1 and 110 pounds in line 3.
- **The default solvent percent is 70% by weight, so you must convert the amount shipped to pounds.** In order to convert gallons to pounds, use a default density of 7.0 pounds/gallon):  
25 gallons x 7.0 pounds/gallon = 175 pounds (Enter 175 pounds in line 2.)

#### 5. Column (e) : Units

- Enter 1 for line 1, 2, and line 3 to indicate pounds.
- If you use the default solvent percent, you CANNOT report your waste shipment in gallons.

#### 6. Column (f) : Emission Factor

- Enter 1.0 for line 1 and 2 to indicate that emission factor is 1 pound of VOC per pound of solvent.
- The MSDS of the paint and primer lists the VOC content of the materials as 4.7 pounds per gallon of material and the density of the materials as 6.0 lbs/gal. Because the quantity is reported in pounds, the VOC content must be converted to pounds per pound. Use the density of the material to convert the VOC content as follows:

$$(4.7 \text{ pounds VOC/gallon}) / (6.0 \text{ pounds/gallon}) = 0.78 \text{ pounds VOC / pound material}$$

**7. Column (g) : Credit [%]**

- Enter 100 for lines 1 and 2. (Auto body shops and car dealers can claim 100% credit in lieu of a certified lab analysis and a default solvent percent of 70% (by weight) for each waste shipment containing clean-up solvents from spray gun cleaning).
- Enter 50 for line 3.

**8. Column (h) : Emission Credit (lbs)**

- Calculate emission credit for each waste shipment by using the formula:  
Emission Credit = [(c) in decimal fraction] x (d) x (f) x [(g)/100]
  - Manifest No. 99999999AAA: Emission credit = 0.7 x 150 x 1.0 x [(100)/100] = 105.00 lbs.
  - Manifest No. 99999998AAA: Emission credit = 0.7 x 175 x 1.0 x [(100)/100] = 122.50 lbs.
  - Manifest No. 99999997AAA: Emission credit = 0.4 x 110 x 0.78 x [(50)/100] = 17.16 lbs.
- 9. Subtotal Credit, lbs** = 105.00 lbs. + 122.50 lbs. + 17.16 lbs. = 244.66 lbs.
- 10. TOTAL CREDIT, lbs** = 244.66 lbs.
- 11. Transfer 244.66 lbs of waste credit to Form B3, Line 3.**

Form W		PERMITTED				Emissions Report	
		CREDITS FOR WASTE SHIPMENTS - LIQUID ORGANIC MATERIALS				July 1, 2007 - December 31, 2007	
<ul style="list-style-type: none"> <li>• Read instructions on the back before completing form.</li> <li>• Carry all emission calculations to 2 decimal places.</li> <li>• Print neatly.</li> </ul>		D-BEST AUTO BODY SHOP				4 5 6 7 8 9	
		FACILITY NAME				FACILITY I.D. NUMBER	
Attach waste manifests for each shipment for proper credit. Report only permitted recycled liquid organic solvents on this form.							
Manifest Document Number (a)	Material Description (b)	Liquid Material [decimal fraction] (c)	Quantity (d)	Units 1=lbs 2=gal (e)	Emission Factor (f)	Credit [%] (50% or 100%) (g)	Emission Credit (lbs) (c) x (d) x (f) x [(g)/100] (h)
99999999AAA	Waste Clean-Up Solvent	0.7	150	1	1.0	100	105.00
99999998AAA	Waste Clean-Up Solvent	0.7	175	1	1.0	100	122.50
99999997AAA	Waste Paint-Related Mat	0.4	110	1	0.78	50	17.16
PAGE # <input type="checkbox"/> OF <input type="checkbox"/> TOTAL PAGES IN FORM W						1. Subtotal Credit (lbs)	
*If you have more than one page, complete Line 2 ONLY ON THE FINAL PAGE.						244.66	
Cannot exceed amount reported in "Sum of subtotals (lbs) from all B3 forms", Form B3						2. TOTAL CREDIT (lbs)*	
						244.66	
Transfer Total Credit to Form B3, Line 3							
S.C.A.Q.M.D. reserves the right to audit the reported emissions. All records and calculations used in completing this summary are recommended to be retained for a minimum of five years.					South Coast Air Quality Management District Form W 7/1/08		