

## Example for Auto Body Shops and Car Dealers

### Credits for Waste Liquid Organic Materials

During fiscal year 2006-2007, 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 year, 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. 9999991: 150 pounds
  - Manifest No. 9999992: 25 gallons
- Waste paint-related materials: [The waste profile indicated 40% VOC containing liquid material (by weight), 60% solids]
  - Manifest No. 9999993: 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. 9999991: Emission credit = 0.7 x 150 x 1.0 x [(100)/100] = 105.00 lbs.
- Manifest No. 9999992: Emission credit = 0.7 x 175 x 1.0 x [(100)/100] = 122.50 lbs.
- Manifest No. 9999993: Emission credit = 0.4 x 110 x 0.78 x [(50)/100] = 17.16 lbs.

**9. Subtotal Credit, lbs**

$$= 105.00 \text{ lbs.} + 122.50 \text{ lbs.} + 17.16 \text{ lbs.} = 244.66 \text{ lbs.}$$

**10. TOTAL CREDIT, lbs**

$$= 244.66 \text{ lbs.}$$

**11. Transfer 244.66 lbs of waste credit to Form B3, Line 3.**

<b>Form W</b>		<b>PERMITTED</b>			<b>Annual Emissions Report</b>								
		<b>CREDITS FOR WASTE SHIPMENTS - LIQUID ORGANIC MATERIALS</b>			<b>July 2006 - June 2007</b>								
<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>		<b>D- BEST AUTO BODY SHOP</b> FACILITY NAME			<table border="1" style="border-collapse: collapse; width: 100%;"> <tr> <td style="width: 20px; text-align: center;">4</td> <td style="width: 20px; text-align: center;">5</td> <td style="width: 20px; text-align: center;">6</td> <td style="width: 20px; text-align: center;">7</td> <td style="width: 20px; text-align: center;">8</td> <td style="width: 20px; text-align: center;">9</td> </tr> </table> FACILITY I.D. NUMBER			4	5	6	7	8	9
4	5	6	7	8	9								
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) (e) x (d) x (f) x [(g)/100] (h)						
9999991	Waste Clean-Up Solvent	0.7	150	1	1.0	100	105.00						
9999992	Waste Clean-Up Solvent	0.7	175	1	1.0	100	122.50						
9999993	Waste Paint-Related Mat.	0.4	110	1	0.78	50	17.16						
<b>1. Subtotal Credit (lbs)</b>						<b>244.66</b>							
<b>2. TOTAL CREDIT (lbs)*</b>						<b>244.66</b>							
*If you have more than one page, complete Line 2 ONLY ON THE FINAL PAGE.													
Cannot exceed amount reported in "Sum of subtotals (lbs) from all B3 forms", Form B3													
<b>Transfer Total Credit to Form B3, Line 3</b>													
SCAQMD 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.													