

# Example for Auto Body Shops and Car Dealers

During calendar year 2010, D-Best Auto Body Shop operated a permitted spray booth and used 25 gallons of waterborne polyurethane color coat, 25 gallons of water-borne high gloss polyurethane clear coat, and 25 gallons of waterborne primer surfacer, and 75 gallons of low-VOC cleanup solvent. In addition, the spray booth has a heater, for which natural gas bills indicate the use of 2,500 therms over the year. A single waste manifest indicated 150 pounds of waste solvent picked up by a waste hauler.

MSDS or other technical information identifies the VOC contents of the coatings and cleanup materials to be as follows:

- Waterborne Color Coat: 2.0 lb VOC/gal of material
- Waterborne Clear Coat: 1.0 lb VOC/gal of material
- Primer Surfacer: 0.85 lb VOC/gal of material
- Low VOC Cleanup Solvent: 0.21 lb VOC/gal of material

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  
Manifest No. 9999991: 150 pounds

## First Go to Form Selection:

1. Select Form AB:

Follow instructions for Form AB

The screenshot shows a web browser window displaying the AER FormAB application. The page title is 'AER FormAB - Windows Internet Explorer provided by South Coast A.Q.M.D.'. The address bar shows the URL: <http://www.2dev/webappl/aer/FormAB.aspx?FormID=AB&PageMode=Edit&RowNumber=1&GridPage=1>. The page has a navigation menu with options: Form Data Entry, Form Selection, Submission Review, Forms & Reports, Manage Users, Device Management, Flag Report, Help & Support, and Home. The current page is 'Form Selection'. The facility information is 'FACILITY : 999999 Year 2010 +'. The main content area is titled 'AB - Auto Body Operations - Oven / Dryer Emissions (Permitted) from Natural Gas Combustion'. It contains a form with the following fields and values:

| Field                    | Value  | Unit       | Emission Factor (lbs/mmscf) | Emissions (lbs/yr) |
|--------------------------|--------|------------|-----------------------------|--------------------|
| Device Description       | 66085  |            |                             |                    |
| Annual Natural Gas Usage | 2500   | (therms)   | Organic Gases: 7.00         | 1.67               |
| Annual Natural Gas Usage | 0.238  | (mmscf/yr) | Nitrogen Oxides: 130.00     | 30.94              |
| Application Numbers      | 123456 |            | Sulfur Oxides: 0.83         | 0.20               |
|                          |        |            | Carbon Monoxide: 35.00      | 8.33               |
|                          |        |            | Particulate Matter: 7.50    | 1.79               |

Buttons: UPDATE RECORD, CANCEL

\* Required Fields

## 2. Select Form B3 Follow instructions for Forms B3

AER FormB3 - Windows Internet Explorer provided by South Coast A.Q.M.D.

http://www2dev/webapp/ aer/FormB3.aspx?FormID=B3&GridPage=1

Form Data Entry Form Selection Submission Review Forms & Reports Manage Users Device Management Flag Report Help & Support Home

FACILITY : 999999 Year 2010 +

### B3 - Permitted Annual Emissions from the Use of Organics

Material and Device description:  \*  
 \*

Material Code:  \*

Activity Code:  \*

Annual Material Usage:  \*

Units:  \*

Rule Number:  \*

Application Numbers:  \*

TAC/ODC:

Overall Control Efficiency: \*  \*

Emission Factor: \*  \*

Emission Factor Value: \*  \*

Gases Total:

Use Default Emissions Factor

\* Required Fields

**ADD RECORDS** **CANCEL**

AER FormB3 - Windows Internet Explorer provided by South Coast A.Q.M.D.

http://www2dev/webapp/ aer/FormB3.aspx?FormID=B3&GridPage=1

Form Data Entry Form Selection Submission Review Forms & Reports Manage Users Device Management Flag Report Help & Support Home

FACILITY : 999999 Year 2010 +

### B3 - Permitted Annual Emissions from the Use of Organics

**ADD RECORDS**

| #                                      | Device Description                       | Material Description                   | Activity Code                             | TAC/ODC | Rule Number | Annual Usage | UnitCode  | Overall Control Efficiency | Organic Gases Emission Factor | Organic Gases Emissions Total | Specific Organics Emission Factor | Specific Organics Emissions Total |
|--|--|--|---|---------|-------------|--------------|-----------|----------------------------|-------------------------------|-------------------------------|-----------------------------------|-----------------------------------|
| X 1                                    | <a href="#">Primer Surfacer</a>          | Primer                                 | 5. Metal Coating                          | N       | 1151        | 25.00        | 2. gallon | 0.0000                     | 0.8500                        | 21.25                         | 0.0000                            | 0.00                              |
| X 2                                    | <a href="#">Waterborn Color Coat</a>     | Urethane / Polyurethane (Hi-Gloss)     | 5. Metal Coating                          | N       | 1151        | 25.00        | 2. gallon | 0.0000                     | 2.0000                        | 50.00                         | 0.0000                            | 0.00                              |
| X 3                                    | <a href="#">Waterborn Clear Coat</a>     | Urethane / Polyurethane (Hi-Gloss)     | 5. Metal Coating                          | N       | 1151        | 25.00        | 2. gallon | 0.0000                     | 1.0000                        | 25.00                         | 0.0000                            | 0.00                              |
| X 4                                    | <a href="#">Low VOC Clean Up Solvent</a> | Other Solvent Material - Use ONLY MSDS | 0. Surface Preparation / Process Cleaning | N       | 1171        | 75.00        | 2. gallon | 0.0000                     | 0.2100                        | 15.75                         | 0.0000                            | 0.00                              |
| <b>SUBTOTAL EMISSION(lbs):</b>         |  |  |   |         |             |              |           |                            |                               | <b>112.00</b>                 |                                   | <b>0.00</b>                       |
| <b>Waste Credit (lbs) from Form W:</b> |  |  |   |         |             |              |           |                            |                               | <b>1.57</b>                   |                                   |                                   |
| <b>Net Emissions in Pounds:</b>        |  |  |   |         |             |              |           |                            |                               | <b>110.43</b>                 |                                   |                                   |
| <b>Net Emissions in Tons:</b>          |  |  |   |         |             |              |           |                            |                               | <b>0.06</b>                   |                                   |                                   |

First Prev Page 1 of 1 (4 records) Next Last Page 1 **Export To Excel**

### 3. Select Form B4:

- The total number of gallons of coatings are added up to be 75 gallons
- The particulate emission factor is a default value of 0.105 lb PM/gal of coating sprayed

Follow instructions for Form B4

AER FormB4 - Windows Internet Explorer provided by South Coast A.Q.M.D

File Edit View Favorites Tools Help

http://www.2dev/webappl/aer/FormB4.aspx?FormID=B4&PageMode=Edit&RowNumber=1&GridPage=1

Live Search

Favorites AER FormB4

Form Data Entry Form Selection Submission Review Forms & Reports Manage Users Device Management Flag Report Help & Support Home

FACILITY : 999999 Year 2010 +

**B Forms**

- B1
- B1U
- B2
- B2U
- B3
- B3U
- B4
- B4U
- B6
- B7
- B7U
- B8
- B8U

**E Forms**

- E1
- E1U

**P Forms**

- P1
- P1U

**B4 - Permitted Annual Equipment Emissions from Miscellaneous Sources**

Process Description: 1.Paint Solids Overspray \*

Activity Code: 36. Spraybooth - Particulate emission \*

Annual Throughput: 75 \*

Unit Code: 2. gallon \*

Rule Number: 404 \*

TAC/ODC:

Application Numbers: 123456 \*

| Emission Factors            | Emissions |
|-----------------------------|-----------|
| Organic Gases: 0 *          | 0.00      |
| Specific Organics: 0 *      | 0.00      |
| Nitrogen Oxides: 0 *        | 0.00      |
| Sulfur Oxides: 0 *          | 0.00      |
| Carbon Monoxide: 0 *        | 0.00      |
| Particulate Matter: 0.105 * | 7.88      |

\* Required Fields

Do not include comma in numeric fields.

UPDATE RECORD CANCEL

Done Local intranet | Protected Mode: Off 150%

Inbox - Microsoft Ou... Web AER FormB4 - Windo... Example for Auto Bo... Example for Auto Bo... 12:44 PM

### 4. Select Form W

Form W: Waste Credit, follow instructions below

#### Credits for Waste Liquid Organic Materials

**Steps to follow on FORM W: [Use one (1) entry sheet for each waste shipment]**

#### 1. Data Field 1: Manifest Document Number

- Enter the manifest numbers. 9999991 in field 1

#### 2. Data Field 2: Material Description

- Enter the description of waste shipment as waste cleaning material in field 2.

### **3. Data Field 3: Liquid Material [decimal fraction]**

- Enter 0.7 for 70% in decimal fraction for waste clean-up solvents in field 3. [70% is the default value (by volume) for waste shipments containing clean-up solvents from an auto body shop. If claiming more than 70 percent solvent (by volume), you must provide a certified lab analysis for each waste shipment].
- **Note: The default percent solvent (70%) does not apply to waste shipments containing mostly paint waste and still bottom solids (greater than 15% solid by weight).**

### **4. Data Field 4: Quantity**

- The weight must be converted to gallons. In order to convert pounds of waste to gallons of waste divide the weight by 7.0 lb/gal (a default density)
- $150 \text{ lb} / 7.0 \text{ lb/gal} = 21.43 \text{ gal}$
- Enter 21.43 in field 4

### **5. Data Field 5 : Units**

- Select gallons from the drop-down

### **6. Data Field 6: Emission Factor**

- Enter 0.21 as the VOC content of the liquid portion of the waste in field 6

### **7. Data Field 7: Lab Analyzed**

- In this case there is no lab analysis. Do not check the box.
- If there is an ELAP certified analysis check the box

### **8. Emission Credit (lbs)**

- The emission credit is calculated for you as 1.57 lb.

**This will be transferred to Form B3**

AER FormW - Windows Internet Explorer provided by South Coast A.Q.M.D.  
File Edit View Favorites Tools Help  
http://www2dev/webappl/aer/FormW.aspx?FormID=W&PageMode=Edit&RowNumber=1&GridPage=1  
Live Search  
AER FormW

Form Data Entry Form Selection Submission Review Forms & Reports Manage Users Device Management Flag Report Help & Support Home  
FACILITY : 999999 Year 2010 +

### B Forms

- B1
- B1U
- B2
- B2U
- B3
- B3U
- B4
- B4U
- B6
- B7
- B7U
- B8
- B8U

### E Forms

- E1
- E1U

### P Forms

- P1

## W - Permitted Credits for Waste Shipments - Liquid Organic Materials

Manifest Document Number:  \*

Material Description:  \*

Liquid Material Fraction:  \*

Quantity:  \*

Unit:  \*

Emission Factor:  \*

Credit (%) 50 or 100:

Emission Credit (lbs):

Lab Analyzed

\* Required Fields

Do not include comma in numeric fields.

Local intranet | Protected Mode: Off | 150% | 12:43 PM