2009
COMPLIANCE CALENDAR
for
DRY CLEANERS

Virginia Department of Environmental Quality
Small Business Assistance
PO Box 1105, Richmond, VA 23218-1105
Telephone: 804.698.4394 or Toll-Free: 800.592.5482 ext. 4394 (in-state only)
Online: www.deq.virginia.gov/osba/

DEQ
VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

VA SBAP
Virginia Small Business Assistance Program
Serving Business and the Environment

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Regulatory Overview

The Clean Air Act of 1990 directed the United States Environmental Protection Agency (EPA) to regulate the emissions of 189 chemical compounds designated as Hazardous Air Pollutants (HAPs). The Perchloroethylene that you use in your dry cleaning machine, also known as “perc,” is one of the chemicals. Perc is the most commonly used chemical cleaning solvent used by dry cleaners.

In September 1993, EPA issued national regulations to control air emissions of perc from dry cleaners. In 1999, Virginia passed its own regulation for perc dry cleaning operations. Virginia adopted the Federal Regulation as their own. These regulations created operational standards and control technology requirements to reduce perc air emissions from dry cleaning operations.

More recently, EPA was required to strengthen the existing regulations due to potential health risks caused by perc. Perc is considered to be a potential cause of cancer. Congress and EPA mandated that the health hazard caused by perc be regulated to limit exposure to the chemical. On July 27, 2006, EPA published additional new regulations for perc drycleaners. This regulation revised the 1993 rule. The 2006 rule requires additional emission controls for new drycleaner shops that have erected or installed new or used dry cleaning machine systems after December 21, 2005. The new rule also created special requirements for dry cleaning shops that are located in buildings containing residences, “co-residential.” Fortunately, Virginia has very few of co-residential dry cleaning shops.

This calendar will help you keep accurate records for both the State and Federal reporting requirements. It is an effective tool to maintain your records and your compliance with both the old and revised Virginia and Federal Perchloroethylene Dry Cleaner Regulations. **Remember the calendar is your Annual Record of Compliance. You must keep these (records) calendars for a period of 5 years.** Also, remember that it is your responsibility to let us know if your address changes, or if the ownership of your shop changes.

You must have a copy of the operations manual for your machine, your refrigeration condenser and carbon adsorber on-site at all times.

Please take advantage of this resource and all the resources provided in the calendar. Working together we can make a difference in Virginia's environment. If you have any questions, please contact Mike Dowd, Ombudsman - DEQ Small Business Assistance, at 1-800-592-5482 ext. 4394, or at (804) 698-4394.

Regulatory Citations

Virginia Requirements: 9 VAC 5-60-100, Subpart M- Designated Emission Standards for Perchloroethylene Dry Cleaning Facilities
Federal EPA Requirements: 40 CFR 63.320 through 40 CFR 63.325, Subpart M--Perchloroethylene Dry Cleaning Facilities

Calendar Instructions

General Instructions

This calendar contains all the record-keeping elements that you need to comply with the Sate and Federal rules. Please fasten the calendar directly to your perc dry cleaning machine.

Complete the logs and charts for each month to fulfill your recordkeeping requirements.

Remember the calendar is your annual record of compliance — you must keep the calendar for a period of 5 years.

Read definitions and regulatory requirements that begin on page 29.

Weekly Equipment Inspections

If you buy **140 gallons or more** of perc per year, you must check your machine **weekly** for leaks and record the results.

If you buy **less than 140 gallons** of perc per year, you must conduct and record leak inspections **at least every other week**.

Record the results of the inspections on the calendar. If leaks are found, or pressures, or temperatures are not correct, your machine must be repaired within 24 hours, if replacement parts are on-site. See below instructions for Repair Log.

Circle the method of inspection “P” for perceptible (feel, see or smell), or “D” for using the Detector. Also when you use the Hydrocarbon Detector for your monthly leak check you do not have to do the perceptible leak check for that week. You may use the Hydrocarbon Detector for each of your weekly checks, if you prefer this method.

Beginning on July 28, 2008, you must inspect your machine and its components on a monthly basis using a “Halogenated Hydrocarbon Detector,” if your machine was installed prior to July 27, 2006. If your machine was installed on or after July 27, 2006, you must begin using the Halogenated Hydrocarbon Detector from the date of installation of your machine.

How to Use the Detector: Make sure the batteries are good, and that the tip of the wand is clean and not contaminated with perc. Keep the tip 1” from the surface of the gaskets, connections, seals, etc., that you are inspecting and move it very slowly approximately 1” per second. Remember that you will have to do the testing during each of the cycles of the machine while components of the machine are being used: the wash cycle, the dry cycle and the distillation cycle. Read the directions for your detector to understand the identification of a leak, e.g. a rapid sound or rapid light pulse. A quantity of 25 ppm is now the definition of a “perc leak.” If the detector registers a leak, the leak must be repaired according to the repair schedules.

Repair Log

If leaks are found, or pressures, or temperatures are not correct, your machine must be repaired within 24 hours, if replacement parts are on-site. In the Repair Log, please provide the inspection date and a description of the required repair; as well as the dates that the necessary part or parts were ordered, received and installed, and the date that the repair was completed. Parts must be ordered within 2 working days of leak detection and installed within 5 working days of receipt.

Repair Log — EXAMPLE 1

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired
1/4/08 door gasket leaking (no replacement parts onsite)	1/6/08	1/15/08	1/21/08	1/22/08

Repair Log — EXAMPLE 2

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired
1/4/08 door gasket leaking (have replacement parts onsite)			1/4/08	1/5/08

Calendar Instructions (continued)

Refrigerated Condenser Monitoring Log

A. If your machine has pressure gauges:

1. Record the pressures of the high and low pressure gauges.
2. Indicate if the pressures are within the machine specifications by marking Y for yes, or N for no. If you circle N, your machine must be repaired.

B. If your machine does not have pressure gauges:

1. Record the outlet temperature of the refrigerated condenser prior to the end of the cool down cycle while the gas-vapor stream is still flowing through the condenser.
2. Indicate if the temperature less than or equal to 45°F (7.2°C). Circle Y for yes, or N for no. If you circle N, the machine must be repaired.

C. If you are still operating a Transfer System:

1. For the washer only, measure the inlet and outlet temperatures.
2. Calculate the difference between the temperatures (subtract the outlet temperature from the inlet).
3. Indicate if the difference is greater than or equal to 20°F. Circle Y for yes, or N for no. If N, the machine must be repaired.

Refrigerated Condenser Monitoring Log					
Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges.					
Are pressure gauges within the ranges specified in the manual?	Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.					
Is the temperature gauge $\leq 45^{o}$F?	Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.					
Calculate the difference (inlet - outlet)					
Is the difference $\geq 20^{o}$F	Y N	Y N	Y N	Y N	Y N

Secondary Carbon Adsorber Monitoring

A. When a carbon adsorber is vented and is used on a machine installed before September 22, 1993:

1. Measure the perc concentration at the outlet vent of the carbon adsorber on the last machine cycle prior to the desorption of the carbon adsorber, or the replacement of the charcoal. You must use a colorimetric tube and the perc concentration must be less than or equal to 100 ppm with an accu- racy of ±25 ppm by volume.
2. Indicate whether the perc concentration is less than 100 ppm, by circling Y for yes, or N for no.
3. If the readings do not meet the required limits, desorb the carbon adsorber according to the machine manufacturer's instructions and take the read- ings again during another cycle. If they still do not meet the required specification, the machine needs to be repaired.

B. When a non-vented carbon adsorber is used to pass the gas vapor stream through the adsorber prior to door being opened on a machine in- stalled after Dec. 21, 2005:

1. Measure final perc concentration, by placing a colorimetric detector tube or a PCE gas analyzer into the open space above the articles of clothing at the rear of the dry cleaning machine drum immediately upon opening the door. The reading should be less than or equal to 300 ppm with an accuracy of ±75 ppm by volume.
2. Indicate whether the perc concentration is less than 300 ppm, by circling Y for yes, or N for no.
3. If the readings do not meet the required limits, desorb the carbon adsorber according to the machine manufacturer's instructions and take the readings again during another cycle. If they still do not meet the required specification, the machine needs to be repaired.

Calendar Instructions (continued)

Perc Purchases Running Total

This chart must be completed on the first day of each month. Below is an example of how to complete the Perc Purchases Running Total chart.

Perc Purchases Running Total

This chart must be completed on the first day of each month. Below is an example of how to complete the Perc Purchases Running Total chart.

Perc Purchases Running Total		
Total from Last Month		55
Subtract Perc Purchased JANUARY 2007		- 10
Subtotal		45
Purchase Date	Purchase Amount	12 Month Running Total
7/12	+ 15	60
	+	

Enter running total from previous month.

Enter the amount of PERC you purchased during this same month last year, using last year's records or calendar. Subtract that amount.

This is your 12-month running total, if you did not purchase Perc this month.

This is your 12-month running total if you purchased PERC this month. Record the bottom number in this column on next month's form in line "Total from Last Month."

Record date Perc was purchased.

If you purchased PERC this month, record the amount and add it to the subtotal. This amount will also go on next year's calendar for this same month under Subtract Perc Purchased.

If you have any questions, please contact Mike Dowd, Ombudsman - DEQ Small Business Assistance, at 1-800-592-5482 ext. 4394, or at (804) 698-4394.

<u>Print out as many calendars as necessary there should be a calendar posted to each of your perc dry cleaning machines</u>.

If you have any concerns or have difficulty printing the calendar please contact Patti Procise, Small Business Assistance (804) 698-4065 or email at osba@deq.virginia.gov.

January 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

	Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector	P D	P D	P D	P D	P D
	Week	1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N
	Pumps	Y N	Y N	Y N	Y N	Y N
	Button trap	Y N	Y N	Y N	Y N	Y N
	Filter housings	Y N	Y N	Y N	Y N	Y N
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water separators	Y N	Y N	Y N	Y N	Y N
	Lint trap	Y N	Y N	Y N	Y N	Y N
misc	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water separators	Y N	Y N	Y N	Y N	Y N
	Distillation unit	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
	Muck coolers	Y N	Y N	Y N	Y N	Y N
	Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Refrigerated Condenser Monitoring Log

Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges.					
Are pressure gauges within the ranges specified in the manual?	Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.					
Is the temperature gauge $\leq 45^{o}$F?	Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.					
Calculate the difference (inlet - outlet)					
Is the difference $\geq 20^{o}$F	Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)	Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)	Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased JANUARY 2008		-
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	

DEQ Compliance Calendar for Dry Cleaners

January 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 VDEQ offices closed *HOLIDAY*	2 Temp logged ☐ Inspect logged ☐ VDEQ offices closed *HOLIDAY*	3
4	5	6	7	8	9 Temp logged ☐ Inspect logged ☐	10
11	12	13	14	15	16 Temp logged ☐ Inspect logged ☐ VDEQ offices closed *HOLIDAY*	17
18	19 VDEQ offices closed *HOLIDAY*	20	21	22	23 Temp logged ☐ Inspect logged ☐	24
25	26	27	28	29	30 Temp logged ☐ Inspect logged ☐	31 ☐ **Monthly Inspection** Using Halogenated Hydrocarbon Detector (HHD)

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Beginning July 28, 2008, you should have started inspecting your machine and its components on a monthly basis using a "Halogenated Hydrocarbon Detector," if your machine was installed prior to July 27, 2006. If your machine was installed on or after July 27, 2006, you should have begun using the Halogenated Hydrocarbon Detector from the date of installation of your machine.

Complete January 2009 chart in the **Waste Generation/Treatment Log** on page 39.

Good idea: Close and secure machine doors except during loading and unloading.

February 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

	Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector	P D	P D	P D	P D	P D
	Week	1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N
	Pumps	Y N	Y N	Y N	Y N	Y N
	Button trap	Y N	Y N	Y N	Y N	Y N
	Filter housings	Y N	Y N	Y N	Y N	Y N
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Lint trap	Y N	Y N	Y N	Y N	Y N
distillation, misc	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Distillation unit	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
	Muck coolers	Y N	Y N	Y N	Y N	Y N
	Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Refrigerated Condenser Monitoring Log

Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges.					
Are pressure gauges within the ranges specified in the manual?	Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.					
Is the temperature gauge $\leq 45^{o}$F?	Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.					
Calculate the difference (inlet - outlet)					
Is the difference $\geq 20^{o}$F	Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)	Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)	Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased FEBRUARY 2008		-
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	

DEQ Compliance Calendar for Dry Cleaners

February 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6 Temp logged ☐ Inspect logged ☐	7
8	9	10	11	12	13 Temp logged ☐ Inspect logged ☐	14
15	**16** VDEQ offices closed *HOLIDAY*	17	18	19	20 Temp logged ☐ Inspect logged ☐	21
22	23	24	25	26	27 Temp logged ☐ Inspect logged ☐	28 ☐ **Monthly Inspection** Using Halogenated Hydrocarbon Detector (HHD)

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Complete February 2009 chart in the **Waste Generation/Treatment Log** on page 39**.**

Good idea: Drain cartridge filters in their housings for at least a 24-hour period.

March 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

	Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector	P D	P D	P D	P D	P D
	Week	1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N
	Pumps	Y N	Y N	Y N	Y N	Y N
	Button trap	Y N	Y N	Y N	Y N	Y N
	Filter housings	Y N	Y N	Y N	Y N	Y N
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Lint trap	Y N	Y N	Y N	Y N	Y N
distillation, misc	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Distillation unit	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
	Muck coolers	Y N	Y N	Y N	Y N	Y N
	Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Refrigerated Condenser Monitoring Log

Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges.					
Are pressure gauges within the ranges specified in the manual?	Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.					
Is the temperature gauge $\leq 45^{o}$F?	Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.					
Calculate the difference (inlet - outlet)					
Is the difference $\geq 20^{o}$F	Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)	Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)	Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased MARCH 2008	-	
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	

DEQ Compliance Calendar for Dry Cleaners

March 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6 Temp logged ☐ Inspect logged ☐	7
8	9	10	11	12	13 Temp logged ☐ Inspect logged ☐	14
15	16	17	18	19	20 Temp logged ☐ Inspect logged ☐	21
22 / 29	23 / 30	24 / 31	25	26	27 Temp logged ☐ Inspect logged ☐	28 ☐ **Monthly Inspection** Using Halogenated Hydrocarbon Detector (HHD)

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Complete March 2009 chart in the **Waste Generation/Treatment Log** on page 39.

April 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

	Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector	P D	P D	P D	P D	P D
	Week	1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N
	Pumps	Y N	Y N	Y N	Y N	Y N
	Button trap	Y N	Y N	Y N	Y N	Y N
	Filter housings	Y N	Y N	Y N	Y N	Y N
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Lint trap	Y N	Y N	Y N	Y N	Y N
distillation, misc	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Distillation unit	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
	Muck coolers	Y N	Y N	Y N	Y N	Y N
	Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Refrigerated Condenser Monitoring Log

Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges.					
Are pressure gauges within the ranges specified in the manual?	Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.					
Is the temperature gauge $\leq 45^{o}$F?	Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.					
Calculate the difference (inlet - outlet)					
Is the difference $\geq 20^{o}$F	Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)	Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)	Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased APRIL 2008		-
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	

DEQ Compliance Calendar for Dry Cleaners

April 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3 Temp logged ☐ Inspect logged ☐	4
5	6	7	8	9	10 Temp logged ☐ Inspect logged ☐	11
12	13	14	15	16	17 Temp logged ☐ Inspect logged ☐	18
19	20	21	22	23	24 Temp logged ☐ Inspect logged ☐	25
26	27	28	29	30 ☐ **Monthly Inspection** Using Halogenated Hydrocarbon Detector (HHD)		

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Complete April 2009 chart in the **Waste Generation/Treatment Log** on page 39.

Good idea: Maintain the solvent-to-carbon ratio and steam pressure for carbon beds in accordance with the manufacturer's specifications.

May 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

	Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector	P D	P D	P D	P D	P D
	Week	1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N
	Pumps	Y N	Y N	Y N	Y N	Y N
	Button trap	Y N	Y N	Y N	Y N	Y N
	Filter housings	Y N	Y N	Y N	Y N	Y N
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Lint trap	Y N	Y N	Y N	Y N	Y N
distillation, misc	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Distillation unit	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
	Muck coolers	Y N	Y N	Y N	Y N	Y N
	Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Refrigerated Condenser Monitoring Log

Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges.					
Are pressure gauges within the ranges specified in the manual?	Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.					
Is the temperature gauge $\leq 45^{o}$F?	Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.					
Calculate the difference (inlet - outlet)					
Is the difference $\geq 20^{o}$F	Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)	Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)	Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased MAY 2008		-
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	

DEQ Compliance Calendar for Dry Cleaners

May 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 Temp logged ☐ Inspect logged ☐	2
3	4	5	6	7	8 Temp logged ☐ Inspect logged ☐	9
10	11	12	13	14	15 Temp logged ☐ Inspect logged ☐	16
17	18	19	20	21	22 Temp logged ☐ Inspect logged ☐	23
24 / 31	25 VDEQ offices closed *HOLIDAY*	26	27	28	29 Temp logged ☐ Inspect logged ☐	30 ☐ **Monthly Inspection** Using Halogenated Hydrocarbon Detector (HHD)

Virginia Department of Environmental Quality
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osba@deq.virginia.gov

Complete May 2009 chart in the **Waste Generation/Treatment Log** on page 39.

Good idea: All dry cleaning equipment should be operated and maintained according to the manufacturer's instructions found in the operation and maintenance manuals.

June 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

	Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector	P D	P D	P D	P D	P D
	Week	1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N
	Pumps	Y N	Y N	Y N	Y N	Y N
	Button trap	Y N	Y N	Y N	Y N	Y N
	Filter housings	Y N	Y N	Y N	Y N	Y N
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Lint trap	Y N	Y N	Y N	Y N	Y N
distillation,	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Distillation unit	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
	Muck coolers	Y N	Y N	Y N	Y N	Y N
misc	Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Refrigerated Condenser Monitoring Log

Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges.					
Are pressure gauges within the ranges specified in the manual?	Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.					
Is the temperature gauge $\leq 45^{o}$F?	Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.					
Calculate the difference (inlet - outlet)					
Is the difference $\geq 20^{o}$F	Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)	Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)	Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased JUNE 2008	-	
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	

DEQ Compliance Calendar for Dry Cleaners

June 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5 Temp logged ☐ Inspect logged ☐	6
7	8	9	10	11	12 Temp logged ☐ Inspect logged ☐	13
14	15	16	17	18	19 Temp logged ☐ Inspect logged ☐	20
21 / 28	22 / 29	23 / 30	24	25	26 Temp logged ☐ Inspect logged ☐	27 ☐ **Monthly Inspection** Using Halogenated Hydrocarbon Detector (HHD)

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Complete June 2009 chart in the **Waste Generation/Treatment Log** on page 39.

After July 27, 2008, all drycleaners were to discontinue the use of transfer machine systems.

July 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

	Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector	P D	P D	P D	P D	P D
	Week	1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N
	Pumps	Y N	Y N	Y N	Y N	Y N
	Button trap	Y N	Y N	Y N	Y N	Y N
	Filter housings	Y N	Y N	Y N	Y N	Y N
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Lint trap	Y N	Y N	Y N	Y N	Y N
distillation, misc	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Distillation unit	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
	Muck coolers	Y N	Y N	Y N	Y N	Y N
	Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Refrigerated Condenser Monitoring Log

Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges.					
Are pressure gauges within the ranges specified in the manual?	Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.					
Is the temperature gauge $\leq 45^{o}$F?	Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.					
Calculate the difference (inlet - outlet)					
Is the difference $\geq 20^{o}$F	Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)	Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)	Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased JULY 2008		-
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	

DEQ Compliance Calendar for Dry Cleaners

July 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3 Temp logged ☐ Inspect logged ☐ VDEQ offices closed *HOLIDAY*	4
5	6	7	8	9	10 Temp logged ☐ Inspect logged ☐	11
12	13	14	15	16	17 Temp logged ☐ Inspect logged ☐	18
19	20	21	22	23	24 Temp logged ☐ Inspect logged ☐	25
26	27	28	29	30 ☐ **Monthly Inspection** Using Halogenated Hydrocarbon Detector (HHD)	31 Temp logged ☐ Inspect logged ☐	

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Complete July 2009 chart in the **Waste Generation/Treatment Log** on page 39.

August 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

	Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector	P D	P D	P D	P D	P D
	Week	1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N
	Pumps	Y N	Y N	Y N	Y N	Y N
	Button trap	Y N	Y N	Y N	Y N	Y N
	Filter housings	Y N	Y N	Y N	Y N	Y N
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Lint trap	Y N	Y N	Y N	Y N	Y N
distillation, misc	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Distillation unit	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
	Muck coolers	Y N	Y N	Y N	Y N	Y N
	Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Refrigerated Condenser Monitoring Log

Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges.					
Are pressure gauges within the ranges specified in the manual?	Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.					
Is the temperature gauge $\leq 45^{o}$F?	Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.					
Calculate the difference (inlet - outlet)					
Is the difference $\geq 20^{o}$F	Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)	Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)	Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased AUGUST 2008	-	
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	

DEQ Compliance Calendar for Dry Cleaners

August 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7 Temp logged ☐ Inspect logged ☐	8
9	10	11	12	13	14 Temp logged ☐ Inspect logged ☐	15
16	17	18	19	20	21 Temp logged ☐ Inspect logged ☐	22
23 30	24 31	25	26	27	28 Temp logged ☐ Inspect logged ☐	29 ☐ **Monthly Inspection** Using Halogenated Hydrocarbon Detector (HHD)

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Complete August 2009 chart in the **Waste Generation/Treatment Log** on page 39.

Good idea: All dry cleaning equipment should be operated and maintained according to the manufacturer's instructions found in the operation and maintenance manuals.

September 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

	Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector	P D	P D	P D	P D	P D
	Week	1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N
	Pumps	Y N	Y N	Y N	Y N	Y N
	Button trap	Y N	Y N	Y N	Y N	Y N
	Filter housings	Y N	Y N	Y N	Y N	Y N
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Lint trap	Y N	Y N	Y N	Y N	Y N
distillation, misc	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Distillation unit	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
	Muck coolers	Y N	Y N	Y N	Y N	Y N
	Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Refrigerated Condenser Monitoring Log

Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges.					
Are pressure gauges within the ranges specified in the manual?	Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.					
Is the temperature gauge $\leq 45^{o}$F?	Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.					
Calculate the difference (inlet - outlet)					
Is the difference $\geq 20^{o}$F	Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)	Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)	Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased SEPTEMBER 2008		-
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	

DEQ Compliance Calendar for Dry Cleaners

September 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4 Temp logged ☐ Inspect logged ☐	5
6	7 VDEQ offices closed *HOLIDAY*	8	9	10	11 Temp logged ☐ Inspect logged ☐	12
13	14	15	16	17	18 Temp logged ☐ Inspect logged ☐	19
20	21	22	23	24	25 Temp logged ☐ Inspect logged ☐	26
27	28	29	30 ☐ **Monthly Inspection** Using Halogenated Hydrocarbon Detector (HHD)			

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Complete September 2009 chart in the **Waste Generation/Treatment Log** on page 39**.**

Good idea: Store all solvent and waste materials in containers that are compatible with the storage of perc and perc waste (perc will not damage inside of container). These containers must be kept closed and marked as ***"Hazardous Waste."***

October 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

	Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector	P D	P D	P D	P D	P D
	Week	1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N
	Pumps	Y N	Y N	Y N	Y N	Y N
	Button trap	Y N	Y N	Y N	Y N	Y N
	Filter housings	Y N	Y N	Y N	Y N	Y N
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Lint trap	Y N	Y N	Y N	Y N	Y N
distillation, misc	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Distillation unit	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
	Muck coolers	Y N	Y N	Y N	Y N	Y N
	Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Refrigerated Condenser Monitoring Log

Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges.					
Are pressure gauges within the ranges specified in the manual?	Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.					
Is the temperature gauge $\leq 45^{o}$F?	Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.					
Calculate the difference (inlet - outlet)					
Is the difference $\geq 20^{o}$F	Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)	Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)	Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased OCTOBER 2008		-
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	

DEQ Compliance Calendar for Dry Cleaners

October 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2 Temp logged ☐ Inspect logged ☐	3
4	5	6	7	8	9 Temp logged ☐ Inspect logged ☐	10
11	12 VDEQ offices closed *HOLIDAY*	13	14	15	16 Temp logged ☐ Inspect logged ☐	17
18	19	20	21	22	23 Temp logged ☐ Inspect logged ☐	24
25	26	27	28	29	30 Temp logged ☐ Inspect logged ☐	31 ☐ **Monthly Inspection** Using Halogenated Hydrocarbon Detector (HHD)

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Complete October 2009 chart in the **Waste Generation/Treatment Log** on page 39.

Good idea: All containers holding perc waste must be kept with the lid on. This includes any cartridge filters or condensate wastes.

November 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

	Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector	P D	P D	P D	P D	P D
	Week	1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N
	Pumps	Y N	Y N	Y N	Y N	Y N
	Button trap	Y N	Y N	Y N	Y N	Y N
	Filter housings	Y N	Y N	Y N	Y N	Y N
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Lint trap	Y N	Y N	Y N	Y N	Y N
distillation, misc	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Distillation unit	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
	Muck coolers	Y N	Y N	Y N	Y N	Y N
	Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Refrigerated Condenser Monitoring Log

Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges.					
Are pressure gauges within the ranges specified in the manual?	Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.					
Is the temperature gauge $\leq 45^{o}$F?	Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.					
Calculate the difference (inlet - outlet)					
Is the difference $\geq 20^{o}$F	Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)	Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)	Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased NOVEMBER 2008		-
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	

DEQ Compliance Calendar for Dry Cleaners

November 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6 Temp logged ☐ Inspect logged ☐	7
8	9	10	**11** VDEQ offices closed *HOLIDAY*	12	13 Temp logged ☐ Inspect logged ☐	14
15	16	17	18	19	20 Temp logged ☐ Inspect logged ☐	21
22 / 29	23 / 30	24	25 VDEQ offices ½ day *HOLIDAY*	**26** VDEQ offices closed *HOLIDAY*	**27** Temp logged ☐ Inspect logged ☐ VDEQ offices closed *HOLIDAY*	28 ☐ **Monthly Inspection** Using Halogenated Hydrocarbon Detector (HHD)

Virginia Department of Environmental Quality
Small Business Assistance
PO Box 1105 Richmond, VA 23218-1105

Toll-Free: 800.592.5482 ext. 4394 (in-state only)
Telephone: 804.698.4394
Fax: 804.698.4264
osba@deq.virginia.gov

Complete November 2009 chart in the **Waste Generation/Treatment Log** on page 39.

Good idea: Tightly seal bungs and lids on containers of raw materials and wastes to stop evaporation.

December 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

	Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector	P D	P D	P D	P D	P D
	Week	1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N
	Pumps	Y N	Y N	Y N	Y N	Y N
	Button trap	Y N	Y N	Y N	Y N	Y N
	Filter housings	Y N	Y N	Y N	Y N	Y N
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Lint trap	Y N	Y N	Y N	Y N	Y N
distillation, misc	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water seperators	Y N	Y N	Y N	Y N	Y N
	Distillation unit	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
	Muck coolers	Y N	Y N	Y N	Y N	Y N
	Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Refrigerated Condenser Monitoring Log

Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges.					
Are pressure gauges within the ranges specified in the manual?	Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.					
Is the temperature gauge $\leq 45^{o}$F?	Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.					
Calculate the difference (inlet - outlet)					
Is the difference $\geq 20^{o}$F	Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)	Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)	Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased DECEMBER 2008		-
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	

DEQ Compliance Calendar for Dry Cleaners

December 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4 Temp logged ☐ Inspect logged ☐	5
6	7	8	9	10	11 Temp logged ☐ Inspect logged ☐	12
13	14	15	16	17	18 Temp logged ☐ Inspect logged ☐	19
20	21	22	23	24 VDEQ offices ½ day *HOLIDAY*	25 Temp logged ☐ Inspect logged ☐ VDEQ offices closed *HOLIDAY*	26
27	28	29	30	31 ☐ **Monthly Inspection** Using Halogenated Hydrocarbon Detector (HHD		

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Complete December 2009 chart in the **Waste Generation/Treatment Log** on page 39.

Good idea: After replacing filter gaskets and seals, check for tightness.

Definitions

Ancillary equipment - the equipment used with a dry cleaning machine in a dry cleaning system including, but not limited to, emission control devices, pumps, filters, muck cookers, stills, solvent tanks, solvent containers, water separators, exhaust dampers, diverter valves, interconnecting piping, hoses and ducts.

Biweekly - any 14-day period of time.

Carbon adsorber - a bed of activated carbon into which an air-perc vapor stream is routed and which adsorbs the perc on the carbon.

Colorimetric detector tube - a glass tube (sealed prior to use), containing a chemical that changes color when exposed to perc and is designed to measure the concentration of perc in air.

Construction - the onsite fabrication, erection, or installation of a dry cleaning system.

Diverter valve - a flow control device that prevents room air from passing through a refrigerated condenser when the door of the dry cleaning machine is open.

Dry cleaning machine drum - the perforated (meaning with holes in it) container inside the dry cleaning machine that holds the articles during dry cleaning.

Dry cleaning system - a dry-to-dry machine and its ancillary equipment, or a transfer machine system and its ancillary equipment.

Dryer - a machine used to remove perc from articles by tumbling them in a heated air stream (sometimes called reclaimer).

Dry-to-dry machine - a one-machine dry cleaning operation in which washing and drying are performed in the same machine.

Exhaust damper - a flow control device that prevents the air-perc vapor stream from exiting the dry cleaning machine into a carbon adsorber before room air is drawn into the dry cleaning machine.

Existing (for **September 1993** rule) - commenced construction or reconstruction before December 9, 1991.

Existing (for **July 2006** rule) - commenced construction or reconstruction before December 21, 2005.

Filter - a porous device through which perc is passed to remove contaminants in suspension. Examples include, but are not limited to, lint filter, button trap, cartridge filter, tubular filter, regenerative filter, prefilter, polishing filter and spin disc filter.

Halogenated hydrocarbon detector - a portable device capable of detecting vapor concentrations of perc of 25 parts per million (ppm) by volume and indicating a concentration of 25 ppm by volume or greater by emitting an audible or visual signal that varies as the concentration changes.

New (for **September 1993** rule) - commenced construction or reconstruction on or after December 9, 1991.

New (for **July 2006** rule) - commenced construction or reconstruction on or after December 21, 2005.

PCE gas analyzer - a flame ionization detector, photo-ionization detector, or infrared analyzer capable of detecting vapor concentrations of perc of 25 parts per million by volume.

Definitions (continued)

Perceptible leaks - any perc vapor or liquid leaks that are obvious from:

1. the odor of perc;
2. visual observation, such as pools or droplets of liquid; or
3. the detection of gas flow by passing the fingers over the surface of equipment.

Reconstruction - replacement of a washer, dryer, or reclaimer; or replacement of any components of a dry cleaning system to such an extent that the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable new source.

Refrigerated condenser - a vapor recovery system into which an air-perc vapor stream is routed and the perc is condensed by cooling the gas-vapor stream.

Responsible official - one of the following:

1. for a corporation: a president, secretary, treasurer, or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more dry cleaning facilities;
2. for a partnership: a general partner;
3. for a sole proprietorship: the owner; or
4. for a municipality, State, Federal, or other public agency: either a principal executive officer or ranking official.

Still - any device used to volatilize and recover perc from contaminated perc.

Transfer machine system - a multiple-machine dry cleaning operation in which washing and drying are performed in different machines. Examples include, but are not limited to:

1. a washer and dryer(s);
2. a washer and reclaimer(s); or
3. a dry-to-dry machine and reclaimer(s).

Vapor leak - a perc vapor concentration exceeding 25 parts per million by volume (50 parts per million by volume as methane) as indicated by a halogenated hydrocarbon detector or PCE (perc) gas analyzer.

Washer - a machine used to clean articles by immersing them in perc. This includes a dry-to-dry machine when used with a reclaimer.

Water separator - any device used to recover perc from a water-perc mixture, includes evaporators.

Determining if the Regulations Affect Your Facility

Dry cleaners are impacted by state and federal regulations, which control perc emissions and which limit exposure to this chemical. These regulations require operational standards and control technology to reduce perc air emissions from dry cleaning operations. Whether or not your dry cleaning facility is affected by the regulations depends on the factors listed below.

A. You are not regulated, if you are using a hydrocarbon (petroleum) dry cleaning machine or machines with less than a total dryer capacity of 84 lbs.

B. You need an air permit from DEQ, if you are using a hydrocarbon machine or machines with a combined dryer capacity of greater than 84 lbs.

C. You are regulated, if you are using a perc dry-to-dry dry cleaning machine. The following factors determine your business classification: the date of purchase and installation of the machine, and the amount of perc you use on an annual basis.

1. The dates of purchase and installation classify your business as “Existing” or “New.” For dry cleaning shops that are not located in a building containing a residence, there are three important dates that determine the type of controls and records that are necessary for your machine: December 9, 1991*; September 22, 1993*; and December 21, 2005.
    a. Any new or used machine installed after December 21, 2005 must be a “Generation 4” machine, which means that it must be dry- to-dry with a refrigerated condenser and it must recirculate the perc-vapor stream through a non-vented carbon adsorber prior to the door being opened.
    b. All dry cleaners in existence prior to July 27, 2006 must comply with the new monitoring and record keeping requirements by July 28, 2008. You must be in compliance with all monitoring and record keeping requirements on the date of installation. For more information, see National Perchloroethylene (Perc) Air Emissions Standards for Dry Cleaning Facilities (e-CFR), July 27, 2006 (use the e-CFR link at http://www.deq.virginia.gov/osba/indsect.html#dry).
    c. All dry cleaners are required to submit a Notification of Compliance (found in the calendar) to both EPA Region III in Philadelphia and to their DEQ Regional Office by July 27, 2008 indicating that they are in compliance with all provisions of the rule including both the 1993 and the 2006 provisions.
2. The amount of perc used on an annual basis classifies your business as small, large or major.
3. The following factors determine the types of controls that are necessary for your machine, the monitoring you must perform and records you must keep: date of installation and the classification of the business as existing or new, and as small, large or major.

* **Machines installed before Dec. 9, 1991 or after Sept 22, 1993, but before Dec. 21, 2005 that use more 140 gals of perc on annual basis must have a refrigerated condenser and must complete the weekly inspection and the refrigerated condenser record keeping.**

Store Classification and Requirements

This chart will help you classify your facility, determine what controls you need, and determine what leak detection and monitoring is required.

Classification Based on Yearly Perc Usage	Classification Based on Date Machine Purchased and Installed	Controls Required	Leak Detection Monitoring Required
Small Area Source **dry-to-dry only**: less than 140 gals **transfer only**: less than 200 gals* **both types**: less than l40 gals*	**Existing** New or used dry cleaning machine initially installed before December 21, 2005.	Refrigerated Condenser (unless installed before December 9, 1991, then no controls are required)	**Monthly:** halogenated hydrocarbon detector (starting July 28, 2008) **Every 2 Weeks:** perceptible leak check (smell, touch, sight)
	New New or used dry cleaning machine initially installed on or after December 21, 2005.	Refrigerated Condenser Must recirculate perc vapor stream through non-vented carbon absorber before door can open	**Monthly:** halogenated hydrocarbon detector (starting July 27, 2006, or on date installed) **Every 2 Weeks:** perceptible leak check (smell, touch, sight)
Large Area Source **dry-to-dry only**: 140 gals up to 2,100 gals **transfer only**: 200 gals up to 1,800 gals* **both types**: 140 gals up to 1,800 gals*	**Existing** New or used dry cleaning machine initially installed before December 21, 2005.	Refrigerated Condenser (unless installed before September 22, 1993, then Refrigerated Condenser, or Existing Carbon Absorber)	**Monthly:** halogenated hydrocarbon detector (starting July 28, 2008) **Every 2 Weeks:** perceptible leak check (smell, touch, sight)
	New New or used dry cleaning machine initially installed on or after December 21, 2005.	Refrigerated Condenser Must recirculate perc vapor stream through non-vented carbon absorber before door can open	**Monthly:** halogenated hydrocarbon detector (starting July 27, 2006, or on date installed) **Every 2 Weeks:** perceptible leak check (smell, touch, sight)
Major Source **dry-to-dry only**: 2,100 gals or more **transfer only**: 1,800 gals or more* **both types**: 1,800 gals or more*	Date of purchase or installation does not make any difference in determination of this category	Refrigerated Condenser + Room Enclosure + Carbon Absorber	**Monthly:** perc (PCE) gas analyzer (starting July 28, 2008) **Every 2 Weeks:** perceptible leak check (smell, touch, sight)

* Transfer systems may not be used after July 27, 2008. For those systems that are still in use, the refrigerated condenser on the washer must be checked for temperature on a weekly basis.

See page 34 for special requirements that apply to perc machines in co-residential facilities (dry cleaning stores in the same building as a residence, such as house, apartment building, condominium building, or hotel).

Registration and Permits

Registration
All dry cleaners are required to register with DEQ. All dry cleaners are required to submit the following forms: Initial Notification Report Form (pink), Compliance Report Form (blue), and Pollution Prevention Report Form (yellow). If you add machines, change-out machines, move your store, close your store, or change ownership, you should notify your DEQ regional office of the change within 30 days, using a new Initial Notification Report Form.

New Source Review Permits
New Source Review permits (construction and operation permits) may be required depending upon the size and classification of your dry cleaning store.

Title V Permit
Only major sources are required to obtain a Title V Operating Permit. All area sources are exempt from a Title V Operating Permit.

Major Source
If your facility is a major source, you are required to obtain a Title V Air Permit and a New Source Review Permit. Call Michael Dowd at (804) 698-4394 or 1-800-592-5482 ext. 4394, if you are a major source and need help understanding your requirements.

Exemptions — the following facilities are exempt:

- Dry cleaning facilities using petroleum solvents, or synthetic
- Solvents other than perc coin operated dry cleaning facilities
- Drop-off only stores

Additional Requirements

1. Have available on-site a copy of the design specifications and the operating manuals for each dry cleaning system and each emission control device.
2. Close the door to the machine immediately after transferring articles to or from the machine, and shall keep the door closed at all other times.
3. Drain all cartridge filters in their housing, or other sealed container, for a minimum of 24 hours, or treat such filters in an equivalent manner before removal from the dry cleaning facility.
4. Store all perc waste and any wastes that contain perc such as cartridge filters.
5. Operate each dry cleaning machine, or a reclaimer with a refrigerated condenser in a manner to not vent or release the air-perc gas vapor stream contained within the dry cleaning machine to the atmosphere while the dry cleaning machine drum is rotating.
6. Operate each dry cleaning machine or reclaimer to prevent any air drawn into the dry cleaning machine when the door of the machine is open from passing through the refrigerated condenser.
7. Do not bypass any carbon adsorber used on a dry-to-dry dry cleaning machine or transfer system in an attempt to vent, or release any air-perc gas-vapor stream to the atmosphere at any time.

Co-Residential Requirements

The requirements listed below apply only to dry cleaning machines located in buildings with a residence, such as a house, apartment building, hotel, or condominium.

EPA has strengthened the requirements for dry cleaning facilities located buildings in which people reside, such as houses, apartments, condos and co-ops. Because residences in these co-residential buildings are located very close to these dry cleaners, residents' exposures and potential health risks can be much higher than for typical facility.

Co-Residential Facilities with Machines Installed before December 21, 2005

May not use a transfer machine.
May continue to use an existing installed perc machine at the shop until it wears out, but not beyond December 21, 2020. May not relocate an existing perc machine from elsewhere to the shop.

Co-Residential Facilities with Machines Installed between December 21, 2005 and July 12, 2006

May not use a transfer machine.
May use an existing installed perc machine at the shop, but only inside a vapor barrier enclosure with its exhaust system operating at all times the dry cleaning machine operates and during maintenance.
The door to the enclosure may only be open when a person is entering or leaving the enclosure.
The perc dry cleaning machine must have a refrigerated condenser and carbon adsorber (also called a "generation 4" machine).
May not use a perc machine on or after July 27, 2009.

Co-Residential Facilities with Machines Installed On or After July 27, 2006

May not use a perc machine after July 27, 2009. Must have a vapor barrier enclosure.

COUNTIES SERVED BY REGIONAL OFFICE

- The **Northern Regional Office** serves the counties of Arlington, Caroline, Culpeper, Fairfax, Fauquier, King George, Loudoun, Louisa, Madison, Orange, Prince William, Rappahannock, Spotsylvania and Stafford; and the cities of Alexandria, Fairfax, Falls Church, Fredericksburg, Manassas and Manassas Park. For more information, call (703) 583-3800.

Air Compliance Manager DEQ Northern Regional Office 13901 Crown Ct Woodbridge, VA 22193-1453

- The **Piedmont Regional Office** serves the counties of Amelia, Brunswick, Charles City, Chesterfield, Dinwiddie, Essex, Gloucester, Goochland, Greensville, Hanover, Henrico, King and Queen, King William, Lancaster, Mathews, Middlesex, New Kent, Northumberland, Powhatan, Prince George, Richmond, Surry, Sussex and Westmoreland; and the cities of Colonial Heights, Emporia, Hope- well, Petersburg and Richmond. For more information, call (804) 527-5020.

Air Compliance Manager DEQ Piedmont Regional Office 4949-A Cox Road, Glen Allen, VA 23060

- The **Tidewater Regional Office** serves the counties of Accomack, Isle of Wight, James City, Northampton, Southampton and York; and the cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach and Williamsburg. For more information, call (757) 518-2000.

Air Compliance Manager DEQ Tidewater Regional Office 5636 Southern Blvd Virginia Beach, VA 23462-2407

- The **Southwest Regional Office** serves the counties of Bland, Buchanan, Carroll, Dickenson, Grayson, Lee, Russell, Scott, Smyth, Tazewell, Washington, Wise and Wythe; and the cities of Bristol, Galax and Norton. For more information, call (276) 676-4800.

Air Compliance Manager DEQ Southwest Regional Office PO BOX 1688 Abington, VA 24212-1688

- The **Valley Regional Office** serves the counties of Albemarle, Augusta, Bath, Clarke, Fluvanna, Frederick, Greene, Highland, Nelson, Page, Rockbridge, Rockingham, Shenandoah and Warren; and the cities of Buena Vista, Charlottesville, Harrisonburg, Lexington, Staunton, Waynesboro and Winchester. For more information, call (540) 574-7800.

Air Compliance Manager DEQ Valley Regional Office PO BOX 3000 Harrisonburg, VA 22801-9519

NOTE CHANGE

Two regional offices - South Central and West Central - have been combined into one region which is now called Blue Ridge Regional Office (BRRO) which will serve through two locations as listed below:

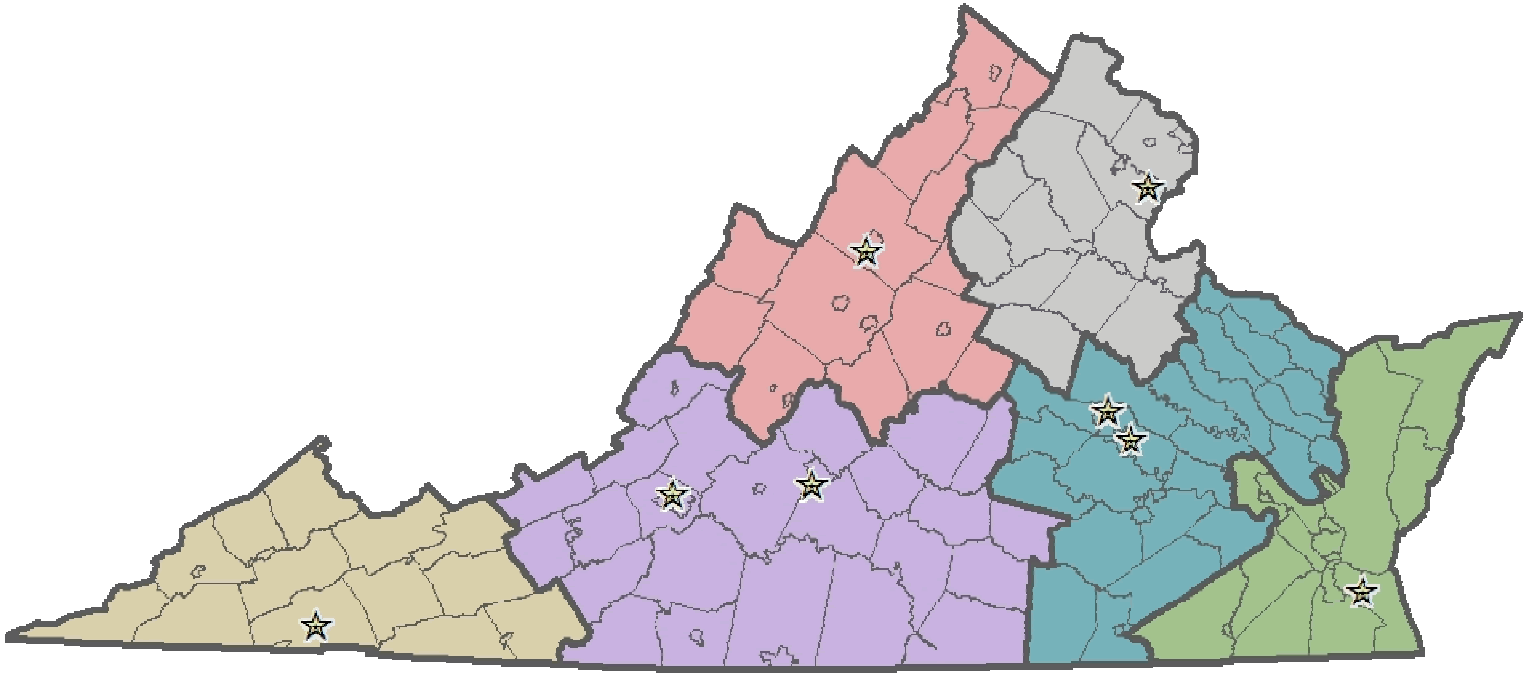
- The **Blue Ridge Regional Office** (**formerly south central location - Lynchburg**) serves the counties of Amherst, Appomattox, Buckingham, Campbell, Charlotte, Cumberland, Halifax, Lunenburg, Mecklenburg, Nottoway, Pittsylvania and Prince Edward; and the cities of Danville and Lynchburg.
For more information, call (434) 582-5120.

Air Compliance Manager DEQ Blue Ridge Regional Office 7705 Timberlake Rd Lynchburg, VA 24502

- The **Blue Ridge Regional Office** (**formerly west central location - Roanoke)** serves the counties of Alleghany, Bedford, Botetourt, Craig, Floyd, Franklin, Giles, Henry, Montgomery, Patrick, Pulaski and Roanoke; and the cities of Bedford, Clifton Forge, Covington, Martinsville, Radford, Roanoke and Salem. For more information, call (540) 562-6700.

Air Compliance Manager DEQ Blue Ridge Regional Office 3019 Peters Creek Rd NW. Roanoke, VA 24019-2738

DEQ Regional Offices Map



Color Code	Regional Office	Address	Phone #	Fax #
	Valley Regional Office	P.O. Box 3000, Harrisonburg, Va. 22801	(540) 574-7800	(540) 574-7878
	Northern Regional Office	13901 Crown Court, Woodbridge, Va. 22193	(703) 583-3800	(703) 583-3801
	Piedmont Regional Office	4949-A Cox Road, Glen Allen, Va. 23060	(804) 527-5020	(804) 527-5106
	Tidewater Regional Office	5636 Southern Blvd., Virginia Beach, Va. 23462	(757) 518-2000	(757) 518-2103
	Blue Ridge Regional Office **Combined Lynchburg areas and Roanoke areas in to one region with 2 offices.**	7705 Timberlake Road, **Lynchburg,** Va. 24502 3019 Peters Creek Road, **Roanoke**, Va. 24019	(434) 582-5120 (540) 562-6700	(434) 582-5125 (540) 562-6725
	Southwest Regional Office	355 Deadmore Street, P.O. Box 1688, Abingdon, Va. 24212		

Visit www.deq.virginia.gov/regions/homepage.html, for more information.

Helpful Contacts and Resources

DEQ Offices and Contacts

Small Business Assistance: Michael Dowd, (804) 698-4394, or 1-800-592-5482 ext.4394
or Patti Procise, (804) 698-4065

Northern Regional Office: Dave Hartshorn, (703) 583-3895
Terry Darton, (703) 583-3845

Piedmont Regional Office: Boots King, (804) 527-5036

Tidewater Regional Office: Ken Pinzel, (757) 518-2191

Southwest Regional Office: Crystal Bazyk, (276) 676-4829

Valley Regional Office: Larry Simons, (540) 574-7810

*__Blue Ridge Regional Office__ (south central office location)**:** Frank Adams, (540) 562-6773

*__Blue Ridge Regional Office__ (west area office location)**:** Frank Adams, (540) 562-6773

***PLEASE NOTE**:

Fredericksburg Office – CLOSED - please call Northern Regional Office for assistance.
Two offices **South Central Regional Office and the West Central Regional Office have been combined into one regional office**.
The new combined regional office is called **Blue Ridge Regional Office (BRRO)** the above contact is correct as stated above.

Online Resources

Virginia DEQ Small Business Assistance website: **http://www.deq.virginia.gov/osba/**

In the Dry Cleaners section on the Business and Industry Resources page, you will find the following resources:

VA DEQ: 2009 Dry Cleaning Compliance Calendar
VA DEQ Environmental Compliance Refresher: educational/training seminar schedule, Regulatory Update presentation, Annual Emission Update presentation, and Spills and Remediation presentation
EPA: National Perchloroethylene (Perc) Air Emissions Standards for Dry Cleaning Facilities (e-CFR), July 27, 2006 EPA Fact Sheet: Final Amendments to Air Toxics Standards for Perchloroethylene Dry Cleaners (English) EPA Fact Sheet: Final Amendments to Air Toxics Standards for Perchloroethylene Dry Cleaners (Korean) EPA: Dry Cleaning Emission Standards, overview page on Office of Air and Radiation
EPA: Rule and Implementation Information for Perchloroethylene Dry Cleaning Facilities, EPA Air Toxics Web Site OSHA: Reducing Worker Exposure to Perc in Dry Cleaning
EPA: The Plain English Guide for Dry Cleaners: A Step-by-step Approach to Understanding Federal Environmental Regulations EPA: The Plain Korean Guide for PERC Dry Cleaners: A Step-by-step Approach to Understanding Federal Environmental Regulations VA DEQ: Wet Cleaning: An Alternative to Dry Cleaning that Is Safe For You, Your Clothes and Your Cleaner
EPA: Garment & Textile Care Partnership, Design for the Environment
EPA Hazardous Waste: RCRA In Focus: Dry Cleaning (English)
EPA Hazardous Waste: RCRA In Focus: Dry Cleaning (Korean)

Hazardous Waste Requirements

Overview

All dry cleaners generate wastes that are considered hazardous waste. A hazardous waste is any material that has come into contact with perc and that needs disposal. Hazardous waste may include your still bottoms/muck from the muck cooker; the lint from your lint filter; the carbon filters that you may have on your carbon adsorber; the carbon filters that you may have on your evaporator or atomizer (mister); the residue that you may have in your perc/water separator, and the rags or kitty litter that you may use to clean up a spill.

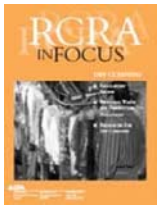
Most dry cleaners are considered Conditionally Exempt Small Quantity Generators (CESQG) of hazardous waste, in other words. To be classified as CESQG, the store must generate less than 25 gallons or 220 pounds of waste per month. If you generate more, then you are considered a Small Quantity Generator (SQG). SQGs have additional requirements that are necessary to comply with Virginia's Hazardous Waste Regulations. A Small Quantity Generator must have an EPA ID Number, which will look like "VAD 123456789." DEQ recommends that Conditionally Exempt Small Quantity Generators also apply for an EPA ID Number. For more information, call Dan Gwinner at (804) 698-4218.

All containers that are holding hazardous waste must be kept closed at all times and must be labeled "Hazardous Waste." Perc is very hazardous. If spilled, perc should be cleaned up immediately. It can penetrate concrete and can contaminate the environment (ground and water). While Virginia does not have a dry cleaner clean-up, DEQ provides a resource program called the Virginia Voluntary Remediation Program. This program can help dry cleaners with a clean-up, making the clean-up costs considerably less expensive than it might be without the program's assistance. For information, call Kevin Greene at (804) 698-4236.

You must ensure that the company that is picking up your hazardous waste is permitted to do so in Virginia. Each drum that is shipped should have a manifest that is supplied by the shipper. If you are Conditionally Exempt, the shipper will use their EPA ID Number. If you have your own, your number should go on the manifest as the shipper's number. Always make sure you know the final destination of your waste and that the destination is permitted and licensed to accept handle, store, and dispose of hazardous waste. If you have any questions, contact Dan Gwinner at (804) 698-4218

Contacts

Dan Gwinner, Office of Waste Programs, DEQ Central Office, (804) 698-4218
Kevin Greene, Waste Remediation Program Office Manager, DEQ Central Office, (804) 698-4236
Willard Keene, Waste Inspector. Southwest Regional Office, (276) 676-4847



Resources

RCRA In Focus: Dry Cleaning (available in English and Korean)
www.epa.gov/epaoswer/hazwaste/id/infocus/dryclean.pdf
www.epa.gov/epaoswer/hazwaste/id/infocus/k99005k.pdf

Your waste is your responsibility forever, even after it leaves your shop.

Waste Generation/Treatment Log

January 2009: have you disposed of any hazardous wastes?	Yes No
Quantity	
Ship Date	
Shipper	
February 2009: have you disposed of any hazardous wastes?	Yes No
Quantity	
Ship Date	
Shipper	
March 2009: have you disposed of any hazardous wastes?	Yes No
Quantity	
Ship Date	
Shipper	
April 2009: have you disposed of any hazardous wastes?	Yes No
Quantity	
Ship Date	
Shipper	
May 2009: have you disposed of any hazardous wastes?	Yes No
Quantity	
Ship Date	
Shipper	
June 2009: have you disposed of any hazardous wastes?	Yes No
Quantity	
Ship Date	
Shipper	

July 2009: have you disposed of any hazardous wastes?	Yes No
Quantity	
Ship Date	
Shipper	
August 2009: have you disposed of any hazardous wastes?	Yes No
Quantity	
Ship Date	
Shipper	
September 2009: have you disposed of any hazardous wastes?	Yes No
Quantity	
Ship Date	
Shipper	
October 2009: have you disposed of any hazardous wastes?	Yes No
Quantity	
Ship Date	
Shipper	
November 2009: have you disposed of any hazardous wastes?	Yes No
Quantity	
Ship Date	
Shipper	
December 2009: have you disposed of any hazardous wastes?	Yes No
Quantity	
Ship Date	
Shipper	

We recommend that you keep this disposal record for 5 years.