

DEVAL L. PATRICK Governor TIMOTHY P. MURRAY

Lieutenant Governor

COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS DEPARTMENT OF ENVIRONMENTAL PROTECTION

ONE WINTER STREET, BOSTON, MA 02108 617-292-5500

IAN A. BOWLES Secretary

LAURIE BURT Commissioner

Dry Cleaner Guidance for Calculating Amounts for Toxics Use Report

Under the Toxics Use Reduction Act (TURA), dry cleaners that have 10 or more fulltime employee equivalents and use 1,000 or more pounds of perchloroethylene (Perc) in a calendar year are required to file a Toxics Use Report with the Massachusetts Department of Environmental Protection (MassDEP). The first reports are for 2009 use and are due by July 1, 2010. In filling out a Toxics Use Report, dry cleaners must quantify their use of Perc (on the Form S) and their emissions of Perc (on the State-only Form R). Provided below is guidance on filling out the required forms and example forms filled out for you.

Form S

You should enter the amount (in pounds) of Perc added to your machine(s) in calendar year 2009 in the space "Otherwise Used," and enter this same amount in the space "Generated as Byproduct."

State-only Form R

The entire byproduct amount is emissions, either emissions to the air or in hazardous waste shipped off-site (an incidental amount also goes out in clothes but is too small for TURA reporting purposes). Dry cleaners should contact their manufacturers to obtain best engineering estimates of how much Perc is emitted annually in normal operations, and should also ask their waste haulers to determine if they can supply an estimate of how much Perc is annually shipped from the facility in waste.

If these parties cannot supply a reasonable estimate of how much Perc is emitted to air and shipped in waste, dry cleaners should follow the 3 steps below1 to estimate the amount of Perc shipped in waste and emitted to air, as a default measure, to meet the TURA requirement of best engineering estimate.

This information is available in alternate format, Call Donald M. Gomes, ADA Coordinator at 617-556-1057, TDD# 1-866-539-7622 or 1-617-574-6868.

¹ Derived from *The California Dry Cleaning Industry Technical Assessment Report*, 2006, California Air Resources Board, at: http://www.arb.ca.gov/toxics/dryclean/finaldrycleantechreport.pdf. The amounts used are for a normalized average of 46,600 pounds of clothes cleaned during one year.

- **Step 1.** Multiply the amount of Perc used during the year by the applicable percentage in the table below to estimate the amount of Perc shipped as hazardous waste sludge for the type of machine that your facility uses. Please note that:
 - Converted machines are those that have been converted from vented to closed-loop.
 - Primary machines use refrigerated condensation. Primary machines are often referred to as third generation.
 - Secondary machines utilize additional controls, such as carbon adsorbers.
 Secondary machines may be referred to as fourth or fifth generation.

	% of use shipped as
Machine Type	hazardous waste sludge
Converted	19.5%
Primary (Spin Disk Only)	53.0%
Primary (Cartridge Only)	30.2%
Primary (Combo)	44.4%
Primary (Average)	38.7%
Secondary (Spin Disk Only)	63.7%
Secondary (Cartridge Only)	51.4%
Secondary (Combo)	66.3%
Secondary (Average)	61.1%

Step 2. Count up the number of filters that you disposed during the year, and multiply by 10.98 pounds of Perc per filter. (If you have actual data on how much Perc was contained in your filters, use that instead of this default estimate). If you do not know how many filters you disposed during the year, refer to the table below for the expected number of waste filters each machine type generates in cleaning 46,600 pounds of clothes. The typical number of gallons of Perc used by each machine type to clean 46,600 pounds of clothes also is included to assist you in comparing your work load to these average values. Add the amount of Perc in your waste filters to the amount of hazardous waste sludge from Step 1.

Type of Machine	# filters	gal used
Converted	22	106
Primary (Spin Disk Only)	0	73
Primary (Cartridge Only)	18	97
Primary (Combo)	14	79
Primary (Average)	10	86
Secondary (Spin Disk Only)	0	65
Secondary (Cartridge Only)	10	60
Secondary (Combo)	6	59
Secondary (Average)	5	61

Step 3. Since all Perc not shipped as hazardous waste (i.e., in sludge and filters) is emitted to air, subtract the combined amount from Steps 1 and 2 from the total use of Perc from the calendar year to obtain the total estimated air emissions.

Example: A dry cleaner using a secondary machine with combination spin disk and cartridge filters added 100 gallons of Perc to the machines in calendar year 2009 (100 gallons times 13.5 pounds per gallon equals 1,350 pounds). If the waste service company cannot supply a reasonable estimate of how much Perc was shipped by the facility, the dry cleaner would estimate that 66.3% was shipped as waste sludge, or $0.663 \times 1,350$ pounds = 895 pounds. In addition, if 10 filters were used, the dry cleaner would estimate another 110 pounds of Perc disposed of with the filters (10 filters $\times 10.98$ lbs of Perc/filter), for a total hazardous waste disposal of 1,005 pounds. The dry cleaner would estimate the difference between this amount and total use of Perc as air emissions (1,350-1,005=345). The dry cleaner would enter the following amounts in pounds in its Toxics Use Report:

Used: 1350	enter as "Otherwise Used" on Form S, Section 1.e.
Byproduct: 1350	enter as "Generated as Byproduct" on Form S, Section 1.f.
Air emissions: 345	enter as "Fugitive or non-point air emissions" on State-only Form R, Section 5.1 and as "Total on-site disposal or other releases" in Section 8.1b, columns B, C, and D
Hazardous waste: 1005	enter as "Total Transfers" on State-only Form R, Section 6.2.A and as "Total off-site disposal or other releases" in Section 8.1d, columns B, C, and D

Questions? Please call Rick Reibstein at the Office of Technical Assistance at 617-626-1062 or Lynn Cain at MassDEP at 617-292-5711. For information about alternatives to perc in dry cleaning, please contact Joy Onasch at the Toxics Use Reduction Institutute (TURI) at joy@turi.org or 978-934-4343.



Bureau of Waste Prevention - Toxics Use Report

Form S Cover Sheet

2009 Reporting Year Joe's Cleaner Facility Name [obtain from DEP] **DEP Facility ID Number**

Section 1: General Information

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



•	tab	
	return	X

Facility Name and Address:		
Joe's Cleaner		
a. Name		
100 Dry Cleaner Avenue		
b. Street Address		
Anytown	MA	12121
c. City	d. State	e. Zip Code
Are you making a trade secret claim for a Form S(s)? Yes ☐ No ☑	ny information submitted in	this COVER SHEET and/or
. If YES, attach a statement substantiating t	he claim. This copy is: Sanit	ized Unsanitized U
n. Are all chemicals only used to treat wastew (if yes, then there are no production units a		
_[Fill in]	NA	
i. Taxpayer Identification Number	j. Toxics Release Inv	ventory (TRI) Identification Number
(Federal Employer Identification Number or FEIN)		

Section 2: Certification Statement

I hereby certify that I have reviewed this and all attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and information in these documents are accurate based on measurements and/or reasonable estimates using data available to the preparers of these documents. I am aware that there are significant penalties for willful or intentional submission of false or incomplete information. I agree on behalf of the filing facility to remit the required Toxics Use Fee (as determined on the Fee Worksheet form) to the Commonwealth of Massachusetts, as required by 301 CMR 40.03. I further certify that the information contained within this filing, as it pertains to TURA billing, is true and correct.

[Sign] a. Authorized Signature	[Fill in] b. Date (MM/DD/YYYY)
[Fill in] c. First Name (Print)	[Fill in] d. Last Name (Print)
[Fill in]	[Fill in]
e. Position/Title	f. Email Address



Form S Cover Sheet

2009
Reporting Year
Joe's Cleaner
Facility Name
[obtain from DEP]
DEP Facility ID Number

Section 3: Chemicals Previously Reported That Are Not Reportable This Year [Skip this section]

In this section, you may provide information on any chemical reported last year that is not subject to reporting this year. If you substituted a non-listed chemical for a TURA chemical, you may identify the substitution.

The codes to explain why the chemical is not reportable are: [1] Chemical Below Threshold But > 0; [2] No Chemical Use in Reporting Year; [3] Chemical Substitution; [4] Chemical Eliminated (No Substitution); [5] Decline in Business; [6] Other (Explain below in the additional comments section); [7] Chemical no longer reportable under TURA. Check all the codes, up to four, that apply.

a.1				a.2				
	CAS # of chemical not reportable (if appl	icable)		Chemical Name				
	a3. Explanation of why the chemical Is not reportable (check codes):	[1]	□ [2]	[3]	□ [4]	□ [5]	□ [6]	□ [7]
a.4	CAS # of chemical substituted for TURA			a.5				
	CAS # of chemical substituted for TURA	chemical		Chem	ical Name			
b.1				b.2				
	CAS # of chemical not reportable (if appl	icable)		Chem	ical Name			
	b.3 Explanation of why the chemical Is not reportable (check codes):	□ [1]	□ [2]	□ [3]	[4]	□ [5]	□ [6]	□ [7]
b.4	CAS # of chemical substituted for TURA	ala a safa a l		b.5	ical Name			
	CAS # of chemical substituted for TURA	chemical		Chem	icai Name			
c.1				c.2				
0.1	CAS # of chemical not reportable (if appl	icable)		Chem	ical Name			
	c.3 Explanation of why the chemical Is					□ [E]		☐ [7]
	not reportable (check codes):	[1]	□ [2]	[3]	[4]	[5]	[6]	□ [7]
c.4	CAS # of chemical substituted for TURA			c.5				
	CAS # of chemical substituted for TURA	chemical		Chem	ical Name			
-1 4				40				
d.1	CAS # of chemical not reportable (if appl	icable)		d.2 Chem	ical Name			
				_	_			
	d.3 Explanation of why the chemical Is not reportable (check codes):	□ [1]	□ [2]	□ [3]	[4]	[5]	∐ [6]	∐ [7]
d.4				d.5				
	CAS # of chemical substituted for TURA	chemical		Chem	ical Name	-		



Form S Cover Sheet

2009 Reporting Year Joe's Cleaner Facility Name [obtain from DEP] **DEP Facility ID Number**

	e.1	CAS # of chemical not reportable (if applicable) e.2 Chemical Name									
		e.3 Explanation of why the chemical Is									
	e.4	CAS # of chemical substituted for TURA chemical e.5 Chemical Name									
	f. Se	Do you have more chemicals not subject to reporting this year? Yes \(\square \) No \(\square \)									
		A PRODUCTION UNIT is best thought of as the combination of the process (or activities) used to produce a product or service <u>and</u> the product or service. In this section, please identify the PRODUCTION UNITS at the facility, then use the production unit number to report on chemical use in the Form S. If there has been a substantial change in a PRODUCTION UNIT from the previous reporting year, the PRODUCTION UNIT must be given a new, unique number.									
a. Production Unit	#	b. Describe the Process:									
Is this production		Dry cleaning									
Is this production unit IN USE for the reporting year of this submittal?											
⊠ Yes □ No		c. Describe the Product:									
Z 100 [] 110		Dry cleaned clothes									
	En	ter up to four (4) six-digit NAICS Codes that best describe the Product from this Production Unit: 812320									
		d. NAICS Code e. NAICS Code f. NAICS Code g. NAICS Code									
		h. Check the appropriate description for the unit of product:									
		☐ area ☐ dollar ☐ hours ☐ kilowatt ☐ length ☐ N/A ☐ number ☐ volume ☒ weight									
	Pro	oduction Process Step Information For This Production Unit									
	i	Enter the production process codes to identify the process steps that involve TLIRA-reportable									

chemicals as an input, output or throughput. (See the reporting guidance document for the list of

production process codes and instructions on when a given code needs to be listed.)



Form S Cover Sheet

2009 Reporting Year Joe's Cleaner Facility Name [obtain from DEP] **DEP Facility ID Number**

1.	B-01 Process Cod	е	2. <u>P</u>	rocess Cod	e	- 3.	Process C	ode	- 4.	Process Cod	de
5. - F	rocess Cod	е	6. <u>P</u>	rocess Cod	е	7.	Process C	ode	- 8.	Process Cod	de
9. - F	rocess Cod	e	10. P	rocess Cod	e	- 11.	Process C	ode	– 12.	Process Cod	de
13. - F	rocess Cod	е	14. <u>P</u>	rocess Cod	е	- 15.	Process C	ode	– 16.	Process Cod	de
17. - F	rocess Cod	е	18. <u>P</u>	rocess Cod	е	- 19.	Process C	ode	- 20.	Process Cod	de
21. -	rocess Cod	е	22. <u>P</u>	rocess Cod	е	- 23.	Process C	ode	– 24 .	Process Co	de
Section	n 4: Fa	cility-V	Vide Li	sting of	f Produ	ıctior	Units	(continued))		
with not abo	ALL the	process s process s ox 1 belov	steps en steps, ch w corres 1	tered in i. neck the r ponds to	above, o numbers	check / that co	ALL. If a rrespond	tion unit. If chemical is to the prod d in i.1).	s assoc	iated with	some but
j. Produ	Clion Onit	number.	Pr	od. Unit #							
k. TURA	. Chemica	ıl		27-18-4				Perchloroe		9	
			CA	AS#				Chemical Na	me		
Check "	All" or the	numbers	s that co	rrespond	to the pr	ocess	codes en	tered in i.			AII. 🔀
1. 🗌	2.	3. 🗌	4.	5. 🗌	6.	7.	8.	9.	10.	11.	12.
13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
ı. TURA	Chemica	I	CA	AS#				Chemical Na	ame		
Check "All" or the numbers that correspond to the pro-					ocess	codes en	tered in i.			AII.	
1.	2.	3.	4.	5. 🗌	6.	7.	8.	9.	10.	11.	12.
13.	14.	15. 🗌	16.	17. 🗌	18.	19.	20.	21.	22.	23.	24.
m. TUR	A Chemic	al	CA	AS#				Chemical Na	ame		
Check "All" or the numbers that correspond to the process codes entered in i. All.								AII.			



Form S Cover Sheet

2009 Reporting Year Joe's Cleaner Facility Name [obtain from DEP]
DEP Facility ID Number

									DEI TUON	ity ib italiik	,,,,
1.	2.	3. 🗌	4.	5.	6.	7. 🗌	8.	9. 🗌	10.	11.	12.
13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
n. TURA	Chemica	al	_								
•		••	CA	AS#			C	hemical Na	ame		
Check "A	All" or the	number	s that co	rrespond	to the pr	ocess co	des ente	red in i.			AII.
1.	2. 🗌	3.	4.	5. 🗌	6.	7.	8.	9. 🗌	10.	11.	12.
13.	14.	15. 🗌	16.	17.	18.	19.	20.	21.	22.	23.	24.
	ere more icals to re	eport for	Yes	⊠ No		•	additionaction unit	s been	Yes	⊠ No	



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ONE WINTER STREET, BOSTON, MA 02108 617-292-5500

IAN A. BOWLES Secretary

LAURIE BURT Commissioner



Massachusetts Department of Environmental Protection

Bureau of Waste Prevention - Toxics Use Report

Form S

Chemical Use Facility-Wide and by Production Units

2009
Reporting Year
Joe's Cleaner
Facility Name
[Obtain from DEP]

DEP Facility ID Number
Perchloroethylene

h. Production Ratio

Chemical Name

Section 1: Facility-Wide Use of Listed Chemical

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return





127-18-4	Perchloroethylen
a. MA DEP CAS #	b. Chemical Name (D

b. Chemical Name (Dioxin should be in grams, decimal points may be used)

Facility-wide use of chemical identified in a. Enter the total amount (in POUNDS, except for dioxin) for each applicable category. **NOTE:** 'Generated as byproduct' (item f.) means all waste containing the listed chemical before the waste is handled, transferred, treated, recycled or released. Please refer to the reporting instructions before completing this section.

c. Manufactured	d. Processed
1,350	1,350
e. Otherwise Used	f. Generated as Byproduct
. Otherwise Used	f. Generated as Byproduct

Section 2: Materials Balance

g. Shipped In Or As Product

e. Other

When the amounts reported in c, d and e in Section 1 are added together, the sum will in many cases equal the sum of f and g. In other words, lines c, d and e will often form a "materials balance." If lines c, d and e are not in approximate balance, you may use this section to explain why. Indicate all the reasons that apply by entering the number of pounds on the appropriate line below (e.g., 4,000 Chemical was held in inventory).

a. Chemical Was Recycled On Site	b. Chemical Was Consumed Or Transformed
c. Chemical Was Held In Inventory	d. Chemical Is a Compound

f. Did anything non-routine occur at your facility during the reporting year that affected the data reported?



Form S

Chemical Use Facility-Wide and by Production Units

2009
Reporting Year
Joe's Cleaner
Facility Name
[Obtain from DEP]
DEP Facility ID Number
Perchloroethylene

					Chemical Nam	ie
		☐ Yes* ☑ No *If	your answer is Yes, you r	may explain in Se	ection 4.I. on Pa	ige 3.
	Se	ction 3: Chemicals Us	ed in Waste Treatmo	ent Units		
	a.	Is this chemical used to tre	at waste or control polluti	on?		
		☐ Yes ☐ No* *If	your answer is No, please	e skip ahead to S	Section 4.	
	b.	Please enter the amount of	the chemical (in pounds)	used to treat wa	ste or control p	ollution.
	C.	Pounds Did the use of this chemica percent or more compared			ncrease or decre	ease by 10
		c.1 ☐ Yes* ☐ No *If	your answer is Yes, you	may explain in Se	ection 4.I. on Pa	ige 3.
			e there more chemicals to treat waste or control poll		NLY if ALL che	micals are used
	Se	ction 4: Toxics Use by	Production Unit			
a. Production Unit #	b.	Quantity of Chemical Code:	:			
Use		1. ≤ 5,000 lbs.	□ 2. > 5,000 ≤	10,000 lbs.	3. > 10,000 lbs	s. ≤ 100,000 lbs.
		☐ 4. > 100,000 lbs. ≤ 500,	000 lbs. ☐ 5. > 500,000	lbs.		
	c.	Did the use of this chemical compared with the previous				
		☐ Yes ⊠ No* *If	your answer is No, skip a	head to g. below	'.	
		Process code(s) where most significant changes occurre (up to three in descending order)		Technique Co (up to three per p		
		d.1.	2.	3a.	3b.	3c.
		e.1.	2.	3a.	3b.	3c.
		f.1.	2.	3a.	3b.	3c.
Ryproduct	а	Was hyproduct generated f	or this chemical less than	1 percent of use	in this producti	ion unit?



Bureau of Waste Prevention – Toxics Use Report

Form S

Chemical Use Facility-Wide and by Production Units

2009	
Reporting Year	
Joe's Cleaner	
Facility Name	
[Obtain from DEP]	
DEP Facility ID Number	
Perchloroethylene	

Chemical Name

h.	Did the byproduct generated for Percent or more compared with reduction?				
	☐ Yes ☑ No*	If your answer is No,	skip ahead to	l. on Page 3.	
	Process code(s) where most significant changes occurred (up to three in descending order)	Type of Change (Enter "I" for Increase, "D" for Decrease)		e Code(s) per process code)	
	i.1.	2.	3a.	3b.	3c.
	j.1.	2.	3a.	3b.	3c.
	k.1.	2.	3a.	3b.	3c.
I.	Are there more production unit	s that use this chemica	al?	☐Yes	⊠ No

Section 4: Toxics Use by Production Unit (continued)

a. Production Unit #

m. You may add any comments or explanations regarding chemical use and/or byproduct generated in this production unit, chemical use in waste treatment (from Section 3), and non-routine occurrences at your facility (from Section 2).



Form S

Chemical Use Facility-Wide and by Production Units

2009
Reporting Year
Joe's Cleaner
Facility Name
[Obtain from DEP]
DEP Facility ID Number
Perchloroethylene
Chemical Name

-		



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Important:

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computer, use only the tab key

to move your

cursor - do not

use the return

kev.

Massachusetts Department of Environmental Protection Bureau of Waste Prevention - Toxics Use Report

State Only Form R/Form A

To be completed for State only reportable chemicals and State only required NAICS filers. This form contains a portion of the fields used in the US EPA Form R and Form A. When filling out this form, please refer to instructions in US EPA's Toxic Chemical Release Inventory Reporting Forms and Instructions.

[Obtain from DEP]
Facility ID
Joe's Cleaner
Facility Name
2009
Reporting Year

Perchloroethylene

Chemical Name

Section 1 Toxic Chemical Identity - Chemical-Specific Information

127-18-4

1.1 CAS Number

Perchloroethylene

1.2 Toxic Chemical or Chemical Category Name

Please note that DEP does not accept the US EPA chemical category identifiers ('N###'); please refer to Appendix B of DEP's Toxics Use Reporting Forms and Instructions for the appropriate Massachusetts reporting number for chemical categories).

Are you filing a Form R? [You should answer "yes" to this question.]

yes - continue to Section 4 (note: Sections 2 and 3 are not required for State Only reporting)no - fill out only the State Only Form A section below.

State Only Form A

This chemical meets the Form A filing eligibility criteria (i.e., the annual reporting amount did not
exceed 500 pounds this reporting year, including no more than 2,000 pounds total disposal or
releases to the environment, AND the amount manufactured, processed or otherwise used did not
exceed 1 million pounds). Note: A Form A may not be filed for PBT chemicals.

Are there additional Form A chemicals to report?
yes (paper filers copy this page as necessary)
no

Section 4

Enter the maximum amount of the toxic chemical onsite at any time during the calendar year:

03 [see range codes below]

4.1 Two-Digit Code From TRI Instruction Package

S



Bureau of Waste Prevention - Toxics Use Report

State Only Form R/Form A To be completed for State only reportable chemicals and State only required NAICS filers. This form contains a portion of the fields used in the US EPA Form R and Form A. When

filling out this form, please refer to instructions in US EPA's Toxic Chemical Release Inventory Reporting Forms and Instructions.

[Obtain from DEP] Facility ID Joe's Cleaner **Facility Name** 2009 Reporting Year Perchloroethylene

Chemical Name

Two-Digit Codes From TRI Instruction Package				
Range Code	From	To		
01	0	99		
02	100	999		
03	1,000	9,999		
04	10,000	99,999		

Section 5

All quantities should be entered in pounds, except for dioxin, which should be entered in grams.

Quantity of the toxic chemical entering each environ	nmental medium onsite in pounds per year:
5.1-2 Air Emissions:	
345	
5.1 Fugitive or non-point air emissions	5.2 Stack or point air emissions

Section 5 (cont.)

5.3 Discharges to receiving streams or water bodies: check if not applicable				
Total Release				
5.4 Underground injection onsite to Class I or Class	II-V wells: 🔀 check if not applicable			
5.4.1 Underground Injection onsite to Class I Wells 5.4.2 Underground Injection onsite to Class II-V Wells				
5.5 Disposal to Land Onsite: ☐ check if not application of the control of the	ble			
5.5.1A RCRA Subtitle C landfills	5.5.1B Other landfills			
5.5.2 Land treatment/application farming	5.5.3A RCRA Subtitle C Surface Impoundment			
5.5.3B Other Surface Impoundments	5.5.4 Other Disposal			

Section 6

Transfers of the toxic chemical in wastes to off-site locations

6.1.A Total Quantity Transferred to POTWs:
☐ check if not applicable



State Only Form R/Form A To be completed for State only reportable chemicals and State only required NAICS filers. This form contains a portion of the fields used in the US EPA Form R and Form A. When

filling out this form, please refer to instructions in US EPA's Toxic Chemical Release Inventory Reporting Forms and Instructions.

[Obtain from DEP]
Facility ID
Joe's Cleaner
Facility Name
2009
Reporting Year
Perchloroethylene
Chemical Name

6.1.A.1 Total Transfers to POTWs
6.2 Transfers to Other Off-site Locations: \Box check if not applicable
1005
6.2 A Total Transfers

Section 74

•		•								
On	-site Waste	Treatment Me	ethods	and Ef	ficiency: 🔀	check if not	applicable			
1.	General Waste Stream Code: 7A.1a									
	Waste Treatment Method(s) Sequence 3-character codes:									
	7A.1b.1	7A.1b.2	7A.1	b.3	7A.1b.4	7A.1b.5	7A.1b.6	7A.1b.7	7A.1b.8	
	Waste Trea	tment Efficier	ncy Es	stimate:	(7A.1c)					
	greater tha	ın 99.9999%		☐ greater than 99.99% to 99.9999%			greater than 99% to 99.99%			
	☐ greater than 95% to 99%			greater than 50% to 95%			greater than 0% to 50%			
2.	General Wa	aste Stream C	Code:	7A.2a						

Waste Treatment Method(s) Sequence 3-character codes:



State Only Form R/Form A To be completed for State only reportable chemicals and State only required NAICS filers. This form contains a portion of the fields used in the US EPA Form R and Form A. When

filling out this form, please refer to instructions in US EPA's Toxic Chemical Release Inventory Reporting Forms and Instructions.

[Obtain from DEP]
Facility ID

Joe's Cleaner

Facility Name 2009

Reporting Year

Perchloroethylene

Chemical Name

	_					_							
		7A.2b.1	7A.2b.2	7A.2b.3	7A.2b.4	7A.2b.5	7A.2b.6	7A.2b.7	7A.2b.8				
	,	Waste Treatment Efficiency Estimate: (7A.2c)											
		greater that	an 99.9999%	☐ gr	eater than 99.9	9% to 99.9999%	☐ greate	☐ greater than 99% to 99.99%					
		greater tha	an 95% to 99%	☐ gı	eater than 50%	to 95%	☐ greate	☐ greater than 0% to 50%					
	3.	General W	aste Stream	n Code: 7A.:	За	-							
		Waste Treatment Method(s) Sequence 3-character codes:											
	-	7A.3b.1	7A.3b.2	7A.3b.3	7A.3b.4	7A.3b.5	7A.3b.6	7A.3b.7	7A.3b.8				
	,	Waste Treatment Efficiency Estimate: (7A.3c)											
		greater that	an 99.9999%	☐ gı	9% to 99.9999%	☐ greater than 99% to 99.99%							
		greater than 95% to 99% greater than 50% to 95% greater than 0% to 50%											
	Do you have additional Section 7A On-site Waste Treatment Methods information to report?												
	☐ yes (paper filers, please copy this page as necessary) ☐ no - continue to Section 7B.												
	Section 7B On-Site Energy Recovery Processes: ⊠ check if not applicable.												
	Energy Recovery Methods 3-character code(s):												
	1 2 3 4												
	Section 7C												
		On-Site Re	ecycling Pro	cesses: 🔀 ch	neck if not ap	plicable. Recy	ycling Metho	ds 3-charac	:ter code(s):				
	-	1 :	2 3	4		_ 	7	8 9	9 10				
		ction 8							, 10				
Enter data as pounds per year.	Source Reduction and				Column A Column B Prior Year Current Rp			nn B Column C Co nt Rpt. Year Following Year 2 nd					
		Total on-site ounderground	disposal injection & land	dfills									



Bureau of Waste Prevention - Toxics Use Report

State Only Form R/Form A To be completed for State only reportable chemicals and State only required NAICS filers.

This form contains a portion of the fields used in the US EPA Form R and Form A. When filling out this form, please refer to instructions in US EPA's Toxic Chemical Release

[Obtain from DEP]	
Facility ID	

Joe's Cleaner

Facility Name

2009

Reporting Year

Perchloroethylene

inventory Reporting Forms and instruction	1115.		Chemic	cal Name
8.1b Total on-site disposal or other releases	NA	345	345	345
8.1c Total off-site disposal underground injection & landfills				_
8.1d Total off-site disposal or other releases	NA	1005	1005	1005
8.2 Quantity used for energy recovery onsite		_		
8.3 Quantity used for energy recovery offsite		_		
8.4 Quantity recycled onsite		_		
8.5 Quantity recycled offsite		_		
8.6 Quantity treated onsite		_		
8.7 Quantity treated offsite		_		
8.8 Quantity released to the environment events not associated with production		edial actions, catastrop	ohic events, or one-time	pounds/year
8.9 Production Ratio NA or activity index:	8.10 Did during t	d your facility engage i he reporting year?	n any source reduction a	activities for this chemical
		[If ye	es, see codes on next pa	age]
Source Reduction Activities [enter code(s)]		Methods to Ident	ify Activity (enter co	odes)
8.10.2				
8.10.3	а	b		С
	a	b		С
Are there additional State Only F yes - continue with additional			no	

Section 8.10.2 / 8.10.3 Source Reduction Activities Codes

Good Operating Practices

- W13 Improved maintenance scheduling, record keeping, or procedures
- W14 Changed production schedule to minimize equipment and feedstock changeovers
- W19 Other changes made in operating practices

Inventory Control

- W21 Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life
- W22 Began to test outdated material — continue to use if still effective

- W23 Eliminated shelf-life requirements for stable materials
- W24 Instituted better labeling procedures
- W25 Instituted clearinghouse to exchange materials that would otherwise be discarded
- W29 Other changes made in inventory control

Spill and Leak Prevention

- W31 Improved storage or stacking procedures
- W32 Improved procedures for loading, unloading, and transfer operations
- W33 Installed overflow alarms or automatic shut-off valves
- W35 Installed vapor recovery systems
- W36 Implemented inspection or monitoring program of potential spill or leak sources
- W39 Other changes made in spill and leak prevention

Raw Material Modifications

- W41 Increased purity of raw materials
- W42 Substituted raw materials
- W49 Other raw material modifications made

Process Modifications

- W51 Instituted re-circulation within a process
- W52 Modified equipment, layout, or piping
- W53 Used a different process catalyst
- W54 Instituted better controls on operating bulk containers to minimize discarding of empty containers
- W55 Changed from small volume containers to bulk containers to minimize discarding of empty containers
- W58 Other process modifications made

Cleaning and Degreasing

- W59 Modified stripping/cleaning equipment
- W60 Changed to mechanical stripping/cleaning devices (from solvents or other materials)
- W61 Changed to aqueous cleaners (from solvents or other materials)
- W63 Modified containment procedures for cleaning units
- W64 Improved draining procedures
- W65 Redesigned parts racks to reduce drag out
- W66 Modified or installed rinse systems
- W67 Improved rinse equipment design
- W68 Improved rinse equipment operation

Section 8.10.2 / 8.10.3 Methods to Identify Activity Codes

- T01 Internal pollution prevention opportunity audit(s)
 T02 External pollution prevention opportunity audit(s)
- T03 Materials balance audits
- T04 Participative team management
- T05 Employee recommendation (independent of a formal company program)
- T06 Employee recommendation (under a formal company program)
- T07 State government technical assistance program
- T08 Federal government technical assistance program
- To Trade association/industry technical assistance program
- T10 Vendor assistance
- T11 Other