

PERCHLOROETHYLENE DRY CLEANERS



### COMPLIANCE INSPECTION CHECKLIST

INSPECTION TYPE:	ANNUAL (INS1, INS2)	$\square$	COMPLAINT/DISCOVERY (CI)
	<b>RE-INSPECTION (FUI)</b>		ARMS COMPLAINT NO:

<b>AIRS ID#:</b> 103 0336	Date: 8/4/2011 Time In:	1:55pm Tir	ne Out: 2:30pm
Facility Name:	Bayou Cleaners		
Facility Location:	1073 South Pinellas Avenue		
	Tarpon Springs, FL, 34689		
<b>Responsible Official:</b>	Soo Hwan Kim	Phone No:	727-942-1734
Emis. Unit Description:	Existing, Small Perchloroethyle Spencer, Sprint 200 - 1991). An	•	
Permit Number:	1030336-004-AG	Exp. Date:	5/19/2016
Facility Contact:	Soo Hwan Kim	Phone:	727-942-1734
<b>Compliance Status:</b>		SNC	

PART I: NOTIFICATION (Check appropriate box)

1. **Existing** facility notified DARM by 9/1/96

2. New facility notified DARM 30 days prior to startup

3. Facility failed to notify DARM to use general permit

### PART II: CLASSIFICATION

Easility indicated on notification form that it	- ia				
Facility indicated on notification form that it	_				
No Notification Form	tore	_Out of businessPetroleum Solvent	Only		
Α.					
1. Existing small area source		2. New small area source			
Dry-to-dry only, <b>x &lt;140</b> gal/yr		Dry-to-dry only, <b>x</b> < <b>140</b> gal/yr			
Transfer only, x <200 gal/yr	$\boxtimes$	Transfer only, x <200 gal/yr			
Both types, x <140 gal/yr		Both types, x <140 gal/yr			
(Constructed before 12/9/91)		(Constructed on or after 12/9/91)			
3. Existing large area source		4. New large area source			
Dry-to-dry only, <b>140&gt; x &lt;2,100</b> gal/yr		Dry-to-dry only, <b>140&gt; x &lt;2,100</b> gal/yr			
Transfer only, 200> x <1,800 gal/yr		Transfer only, 200> x <1,800 gal/yr			
Both types, 140> x <1,800 gal/yr		Both types, 140> x <1,800 gal/yr			
(Constructed before 12/9/91)		(Constructed on or after 12/9/91)			
This is a correct facility classification	Y 🗆	N 🗌 Can not determine			
If no, please check the appropriate cla	assificatio	n:			
Facility qualified for a general perm	nit as numl	ber <u>1</u> above.			
$\Box$ Facility exceeds above limits and is not eligible for a general permit					
•	B. Highest 12-month consecutive total of perchloroethylene purchased in the preceding 12-month				
period: <u>24.6</u> Gallons. Month with highest					
		<u></u>	<u> </u>		

#### PART III: GENERAL CONTROL REQUIREMENTS

Is the responsible official of the dry cleaning facility: (Check appropriate boxes)			
1. Storing perchloroethylene in tightly sealed and impervious containers?	$\boxtimes Y$	$\Box$ N	□ NA
2. Examining the containers for leakage?	$\boxtimes Y$	$\Box$ N	□ NA
<ul><li>3. Closing and securing machine doors except during loading/unloading?</li><li>4. Draining cartridge filters in their housing or in sealed containers for at</li></ul>	⊠ Y	$\Box$ N	
least 24 hours prior to disposal?	$\boxtimes \mathbf{Y}$	$\square$ N	$\Box$ NA
5. Maintaining solvent-to-carbon ratios and steam pressure for carbon adsorber beds according to the manufacturer's specifications?	ΓY	□N	🖂 NA

#### PART IV: PROCESS VENT CONTROLS

#### In Part II-A:

If classification (1) has been checked, no controls are required. Proceed to Part V.

If classification (2) has been checked, the machine should be equipped with a refrigerated condenser (complete A below) If classification (3) has been checked, the machine should be equipped with either a refrigerated condenser or a carbon adsorber (complete A and B below). A Carbon adsorber must have been installed prior to September 22, 1993. If classification (4) has been checked, machine should be equipped with a refrigerated condenser (complete A and B below.)

#### A. Has the responsible official of all new sources and existing large area sources: (check appropriate boxes)

1. Equipped all machines with the appropriate vent controls?	□ Y	□N	🖾 NA
2. Equipped dry-to-dry machines with a closed-loop vapor venting system?	□ Y	□N	🖾 NA
3. Equipped the condenser with a diverter valve so airflow will be directed away from the condenser upon opening the door?	□ Y	□ N	⊠ NA
4. Measured and recorded the temperature of the outlet exhaust stream of a refrigerated condenser on a weekly basis?	□ Y	□ N	⊠ NA
5. Repaired or adjusted the equipment within 24 hours if the exhaust temperature of the condenser exceeded $45^{\circ}$ F?	□ Y	□ N	⊠ NA
6. Conducted all temperature monitoring after an appropriate cool down period and after verifying the coolant had been completely charged?	□ Y		🖾 NA

B.	Has the responsible official of an existing large or new large area source also:	
1.	Measured and recorded the exhaust temperature on the outlet side of the condenser located on dry-to-dry, reclaimer, and dryer machines on a weekly basis?	⊠Y □N
2.	Measured and recorded the washer exhaust tem <sup>-</sup> e at the condenser inlet and outlet weekly?	□Y □N □NA
	Is the temperature differential equal to on $^{\circ}$ F?	□Y □N □NA
3.	Measured and recorded the concentration veekly at the end of the	
	final drying cycle while the pe is venting the period the period with a carbon addition?	□Y □N □NA
	Is the period or less the ppm?	$\square Y \square N \square NA$
4.	Assured that the s group on adsorber exhaust for measuring perc.	
	concentrations is at duct diameters downstream of any bend, contraction, or	
	expansion; is at least $\lambda$ values liameters upstream from any bend contraction, or expansion; and downstream from $n$ ver inlet?	□Y □N □NA
5.	Equipped transfer machines (dryers, reclaimers, and washers) with individual condenser	
	coils?	□Y □N □NA
6.	Routed airflow to the carbon adsorber (if used) at all times?	□Y □N □NA

PART V: RECORDKEEPING REQUIREMENTS				
Has the responsible official: (Check appropriate boxes)				
1.	Maintained receipts for perc purchased?	⊠Y	□N	
2.	Maintained rolling monthly averages of perc consumption?	⊠Y	□N	
3.	<ul> <li>Maintained leak detection inspection and repair reports for the following:</li> <li>a. Documentation of leaks repaired w/in 24 hrs? or;</li> <li>b. Documentation of parts ordered to repair leak and leak repaired w/in 2 days and parts installed w/in 5 days of receipt?</li> </ul>	□Y □Y	$ \square N \boxtimes NA \\ \square N \boxtimes NA $	
4.	Maintained calibration data? (direct reading instruments only)	ΠY	□N ⊠NA	
5.	Maintained exhaust duct monitoring data on perc concentrations?	ΠY	□N ⊠NA	
6.	Maintained startup/shutdown/malfunction plan?	⊠Y	□N	
7.	Maintained deviation reports? Problem corrected?	$ \Box Y \\ \Box Y $	$ \squareN \boxtimes NA \\ \squareN \boxtimes NA $	
8.	Maintained compliance plan, if applicable?	ΠY	□n ⊠na	

## PART VI: LEAK DETECTION AND REPAIRS

1.	Does the responsible official conduct weekly le	ak det	ection a	and repair inspection?	$\boxtimes \mathbf{Y}$	□N
2.	Which method of detection does the responsible official use?					□N
	Visual examination (condensed solvent of exterior surfaces)					□N
	Physical detection (airflow felt through gaskets)					□N
	Odor (noticeable perc odor)				$\boxtimes \mathbf{Y}$	□N
	Use of direct-reading instrumentation (FII	D/PID/	calorim	etric tubes)	$\Box Y$	$\boxtimes N$
	If using direct-reading instrumentation, is the	equip	ment:		ΠY	ΠN
	a. Capable of detecting perc vapor concen	tration	s in a ra	nge of 0-500 ppm	ΠY	$\Box N$
	b. Calibrated against a standard gas prior t	to and	after ead	ch use (PID/FID only).	ΠY	ΠN
	c. Inspected for leaks and obvious signs of	f wear	on a we	ekly basis?	ΠY	□N
	d. Kept in a clean and secure area when not in use.					ΠN
	e. Verified for accuracy by use of duplicate samples (calorimetric only)?					ΠN
3.	3. Has the facility maintained a leak log?					$\Box N$
4.	The following area should be checked for leaks	s by th	e opera	itor:	$\boxtimes \mathbf{Y}$	$\Box N$
	Hose connections, fitting couplings, and valves	$\boxtimes \mathbf{Y}$	$\Box N$	Muck cookers	$\Box Y$	$\boxtimes N$
	Door gaskets and seating	$\boxtimes \mathbf{Y}$	$\Box N$	Stills	$\Box Y$	□N
	Filter gaskets and seating	$\boxtimes \mathbf{Y}$	$\Box N$	Exhaust dampers	$\boxtimes \mathbf{Y}$	□N
	Pumps	$\boxtimes \mathbf{Y}$	$\Box N$	Diverter valves	$\Box Y$	$\boxtimes N$
	Solvent tanks and containers	$\boxtimes \mathbf{Y}$	$\Box N$	Cartridge Filter housing	$\boxtimes \mathbf{Y}$	□N
	Water separators	$\boxtimes \mathbf{Y}$	□N			

Shea Jackson	August 4, 2011
Inspector's Name (Please Print)	Date of Inspection
	Within one year of this inspection
Inspector's Signature	Date of Next Inspection

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## System Inspection and Leak Detection

Are the following dry cleaning system components inspected weekly for perceptible leaks (sight, smell or touch) while the system is in operation (§63.322(k))? (Inspection with a halogenated hydrocarbon detector or PCE gas analyzer also fulfills the requirement for inspection of perceptible leaks.)  $\boxtimes Y \quad \Box N \quad \Box NA$ 

Are the following dry cleaning system components inspected monthly for vapor leaks using a halogenated hydrocarbon detector or PCE gas analyzer while the system is in operation? (Any inspection conducted according to this paragraph shall satisfy the requirements to conduct an inspection for perceptible leaks under §63.322(k) or (l).  $\boxtimes$ Y  $\square$ N  $\square$ NA

- (1) Hose and pipe connections, fittings, couplings, and valves;
- (2) Door gaskets and seatings;
- (3) Filter gaskets and seatings;
- (4) Pumps;
- (5) Solvent tanks and containers;
- (6) Water separators;
- (7) Muck cookers;
- (8) Stills;
- (9) Exhaust dampers;
- (10) Diverter valves; and
- (11) All Filter housings

Is the halogenated hydrocarbon detector or PCE gas analyzer operated according to the manufacturer's instructions?  $\Box Y \quad \Box N \quad \boxtimes NA$ 

Is the vapor leak inspection conducted by placing the probe inlet at the surface of each component interface where leakage could occur and moving it slowly along the interface periphery?  $\square Y \square N \square NA$ 

Is the PCE gas analyzer a flame ionization detector, photo ionization detector, or infrared analyzer capable of detecting vapor concentrations of PCE of 25 parts per million by volume?  $\Box Y \quad \Box N \quad \boxtimes NA$ 

Is the halogenated hydrocarbon detector capable of detecting vapor concentrations of PCE of 25 parts per million by volume and indicating a concentration of 25 parts per million by volume or greater by emitting an audible or visual signal that varies as the concentration changes?  $\square$ Y  $\square$ N  $\square$ NA

#### ADDITIONAL SITE INFORMATION

Facility Name:	Bayou Cleaners
ARMS #:	103 0336

### **Inspection Comments:**

- During the inspection of the facility, I met with Mr. Soo Hwan Kim, the responsible official and owner of the dry to dry operations.
- I observed the calendar monthly records for the 2010 and 2011 year in folder with purchase orders and hazardous waste invoices back to 2007.
- Mr. Kim had records the perchloroethylene usage totals and bi weekly leak detection observations. The monitoring and recording of the checks continue to be made on a bi weekly base as required for existing small facilities. The records for leak checks were up to date as of 8/1/2011. The weekly temperatures recorded ranged between of 42-45F.
- The 12 month consecutive total for January 2011 was 24.6 gallons; the current monthly total was 19.3 gallons. Mr. Kim stated they dry clean ~2-3 times a week, and continues to use detergent and water for laundry.
- The facility most recent purchase 15 gallons of perc on 1 /11 /2011.
- The facility uses a Nova Systems Bolo Halogen detector that is capable of readings up to 25 PPM readings. (See Photo)
- I observed the Spencer Sprint 200 machine. The equipment appears to be clean and not much usage. The dryer and associated equipment was not in operation at this time. The dryer equipment and containers are well maintained and door closed.
- There were no perchloroethylene odors detected during the inspection of the facility.
- The perchloroethylene hazardous waste and containers were closed and located in the secondary containment area.
- The most recent Hazardous waste invoice was dated as 1/7/2010 for disposal.
- The boiler is a small electric unit, exempt from permitting.
- I gave Mr. Kim the inspection summary, and he signed the annual certification form.
- The facility is in compliance at this time.

### ADDITIONAL SITE INFORMATION

ARMS #:	Bayou Clear	ners		
	103 0336			
Machine #1:	~			
	Spencer	Capacity lb		
	Sprint 200	Serial# M	fg yr	
Machine #2:				
Manufacturer		Capacity lb	S	
Model#		Serial# M	fg yr	
Notification (unp		•		
			Y	$\boxtimes N$
		g out its own notification, and will send it to FDEP?	Y	$\boxtimes N$
Record keeping				
-	-	pecs as to the design accuracy of the temperature sensor? $\square$	Y	$\Box N$
(Temperat	ure of 45 <sup>0</sup> F w/a	accuracy $\pm -2^{0}$ F, or 7.2EC w/accuracy of $\pm -1.1^{0}$ C)		
Hazardous Wast	e:			
1. Is all perc. cont	aminated waste	ewater either treated or disposed of properly?	Y	□N
2. If wastewater is evaporated, is it an approved system, and using carbon filtration?				$\Box N$
3. Does the facility have secondary containment for the dry-dry machine?				□N
4. Does the facility have secondary containment for any perc. waste containers?				$\Box N$
Boiler:				
Manufacturer H	Pacific Steam	H	0	
Model #		Serial # M	fg yr	1993
Fuel Type: N	Natural gas?	$\square \qquad Propane?  \Box  Fuel oil?  \Box$		
	acility uses and	electric water heater Exempt emission unit		

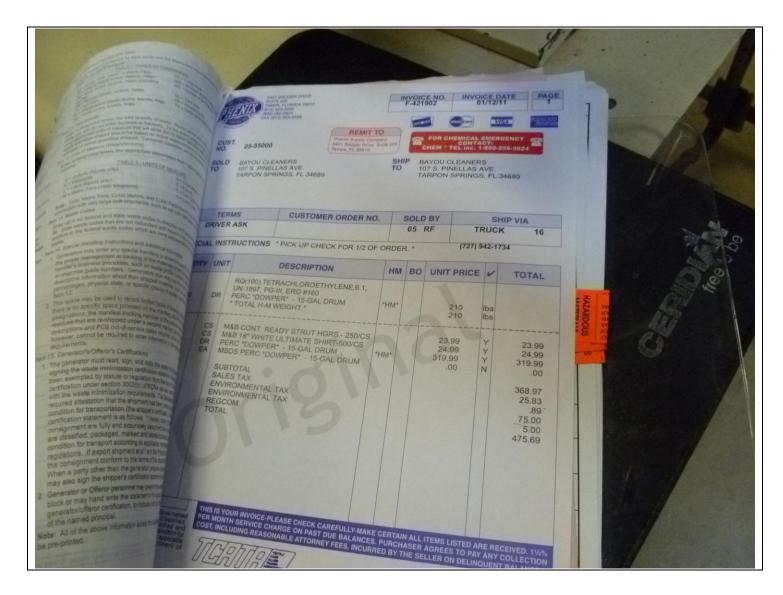
# **Bayou Cleaners** 1073 South Pinellas Avenue, Tarpon Springs



Project Id:	75834	Permit No: 1030336-004-AG	<b>Arms Number:</b> <u>0336</u>	
Inspector:	Shea Jackson	<b>Inspection Date / Time:</b> <u>8/4/2</u>	011 /	
Source (EU): Existing, Small Perchloroethylene Dry Cleaner: One Dry-to-dry machine(				
	Spencer, Spr	int 200 - 1991). An electric wate	r heater is used	
Description:	[The facility Halog	en detector did not detect any leaks. The	dry to dry was not in operation at this time]	

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# **Bayou Cleaners** 1073 South Pinellas Avenue, Tarpon Springs



<b>Project Id:</b>	<u>75834</u>	Permit No: 1030336-004-AG	Arms Number: 0336						
Inspector:	Shea Jackson	<b>Inspection Date / Time:</b> <u>8/4/2</u>	011 /						
Source (EU): Existing, Small Perchloroethylene Dry Cleaner: One Dry-to-dry machine(									
Spencer, Sprint 200 - 1991). An electric water heater is used									
<b>Description:</b> 1/12/11]	[The facility p	urchase of Perc is typically once	a year. The last PO was for						

# **Bayou Cleaners** 1073 South Pinellas Avenue, Tarpon Springs

					(7.2"	C) ?	45 1		Su		Month Ru	inning Total	19.6	IF YOUR 12-MONTH RUN
	1/12	44	01	0	-	2.5			-	7	ANUARY	2010	0	140 GALLONS OR MORE MUST CONDUCT AND F
	1 4				Z Y/N			SUBTOTAL					INSPECTIONS WEEKLY	
				Y/N						Purchase Date of Perc.		Purchase Amount in gal, JANUARY 2011	Running	
					Y/N Y/N					11	12	+ 15.	24,6	
			_									+		
	INSPECTI	INSPECTED			LEAKING? DATE							DATE PARTS		DATE PARTS
	1		In	/	11	21		T			-	ORDER	ED	RECEIVED
HOSES			M	Y	N	Y	N	100	N	100	NY			and the second
and the second second	DOORS PUMP SOLVENT TANKS WATER SEPARATOR STILL/MUCK COOKER HALOGEN LEAK DETEC- TOR DIVERTER VALVE/EXHAUST DAMP GASKET/DOOR LINT/BUTTON TRAP CARTRIDGE FILTER/SPIN DISC		The second	Y	IN	Y	N	den al	N	-	NY			
			14	Y		Y	N	-	N	and the	NY			
			M.	Y	1000	Y	N	100	N	Contra l	NY			
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and the second			N	Y	N	Y	N	Y	N	Y	NY			
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	WASTE CONTAINE	ERS	N	Y	N	Y	N	Y	N	Y	NY	LABELED Y	N	DATED T
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													1	1 all

## Project Id: 75834 Permit No: 1030336-004-AG Arms Number: 0336

Inspector: Shea Jackson Inspection Date / Time: 8/4/2011 /

Source (EU): Existing, Small Perchloroethylene Dry Cleaner: One Dry-to-dry machine(

Spencer, Sprint 200 - 1991). An electric water heater is used

**Description:** [The facility records show very low Perc usage. The highest 12 month totals for the year ws 24.6 gallons]