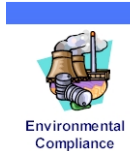




PERCHLOROETHYLENE DRY CLEANERS



COMPLIANCE INSPECTION CHECKLIST

INSPECTION TYPE: ANNUAL (INS1, INS2) ☒ COMPLAINT/DISCOVERY (CI) ☐
RE-INSPECTION (FUI) ☐ ARMS COMPLAINT NO:

AIRS ID#: 103 0352	Date: 1/6/2009 Time In: 1:35Pm Time Out: 2:05PM
Facility Name:	Coastal Cleaners, Inc.
Facility Location:	2166 Main Street Dunedin, FL, 34698
Responsible Official:	Dea Jin Lim Phone No: 727-734-7983
Emis. Unit Description:	New, Small Perchloroethylene Dry Cleaner: One Union Air Model L84002000 (8/1/05), Dry-to-dry machine with Refrigerated Condenser. A 15 hp natural gas fired boiler is on-site.
Permit Number:	1030352-003-AG Exp. Date: 2/4/11
Facility Contact:	Dea Jin Lim Phone: 727-734-7983
Compliance Status:	: IN <input type="checkbox"/> MNC <input type="checkbox"/> 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

Facility indicated on notification form that it is:

☐ No Notification Form ☐ Drop-Off Store ☐ Out of business ☐ Petroleum Solvent Only

A.

1. Existing small area source

Dry-to-dry only, $x < 140$ gal/yr

Transfer only, $x < 200$ gal/yr ☐

Both types, $x < 140$ gal/yr

(Constructed **before 12/9/91**)

3. Existing large area source

Dry-to-dry only, $140 > x < 2,100$ gal/yr

Transfer only, $200 > x < 1,800$ gal/yr ☐

Both types, $140 > x < 1,800$ gal/yr

(Constructed **before 12/9/91**)

2. New small area source

Dry-to-dry only, $x < 140$ gal/yr

Transfer only, $x < 200$ gal/yr ☒

Both types, $x < 140$ gal/yr

(Constructed on or **after 12/9/91**)

4. New large area source

Dry-to-dry only, $140 > x < 2,100$ gal/yr

Transfer only, $200 > x < 1,800$ gal/yr ☐

Both types, $140 > x < 1,800$ gal/yr

(Constructed on or **after 12/9/91**)

This is a correct facility classification ☒ Y ☐ N ☐ Can not determine

If no, please check the appropriate classification:

☒ facility qualified for a general permit as number 2 above.

☐ 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: 116.7 Gallons. 1/2008

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? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 2. Examining the containers for leakage? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 3. Closing and securing machine doors except during loading/unloading? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | |
| 4. Draining cartridge filters in their housing or in sealed containers for at least 24 hours prior to disposal? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 5. Maintaining solvent-to-carbon ratios and steam pressure for carbon adsorber beds according to the manufacturer's specifications? | <input type="checkbox"/> Y | <input type="checkbox"/> N | <input checked="" type="checkbox"/> 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? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | |
| 2. Equipped dry-to-dry machines with a closed-loop vapor venting system? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 3. Equipped the condenser with a diverter valve so airflow will be directed away from the condenser upon opening the door? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 4. Measured and recorded the temperature of the outlet exhaust stream of a refrigerated condenser on a weekly basis? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | |
| 5. Repaired or adjusted the equipment within 24 hours if the exhaust temperature of the condenser exceeded 45o F? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 6. Conducted all temperature monitoring after an appropriate cool down period and after verifying the coolant had been completely charged? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | |

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? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | |
| 2. Measured and recorded the washer exhaust temperature at the condenser inlet and outlet weekly?
Is the temperature differential equal to or greater than 10o F? | <input type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 3. Measured and recorded the solvent concentration weekly at the end of the final drying cycle while the machine is venting through a carbon adsorber, machines are equipped with a carbon adsorber?
Is the per cent solvent concentration or less than 100 ppm? | <input type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |

4. Assured that the sampling port on the carbon adsorber exhaust for measuring perc. concentrations is at least 8 duct diameters downstream of any bend, contraction, or expansion; is at least 2 duct diameters upstream from any bend contraction, or expansion; and downstream from no other 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. Maintained leak detection inspection and repair reports for the following:

a. Documentation of leaks repaired w/in 24 hrs? or;

☐ Y ☐ N ☒ NA

b. Documentation of parts ordered to repair leak and leak repaired w/in 2 days and parts installed w/in 5 days of receipt?

☐ Y ☐ N ☒ NA

4. Maintained calibration data? (*direct reading instruments only*)

☐ Y ☐ N ☒ NA

5. Maintained exhaust duct monitoring data on perc concentrations?

☐ Y ☐ N ☒ NA

6. Maintained startup/shutdown/malfunction plan?

☒ Y ☐ N

7. Maintained deviation reports?

☐ Y ☐ N ☒ NA

Problem corrected?

☐ Y ☐ N ☒ NA

8. Maintained compliance plan, if applicable?

☐ Y ☐ N ☒ NA

PART VI: LEAK DETECTION AND REPAIRS

- | | | |
|--|---------------------------------------|---------------------------------------|
| 1. Does the responsible official conduct a weekly leak detection and repair inspection? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| 2. Which method of detection does the responsible official use? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| Visual examination (condensed solvent of exterior surfaces) | <input checked="" type="checkbox"/> | |
| Physical detection (airflow felt through gaskets) | <input checked="" type="checkbox"/> | |
| Odor (noticeable perc odor) | <input checked="" type="checkbox"/> | |
| Use of direct-reading instrumentation (FID/PID/calorimetric tubes) | <input type="checkbox"/> | |
| If using direct-reading instrumentation, is the equipment: | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| a. Capable of detecting perc vapor concentrations in a range of 0-500 ppm | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| b. Calibrated against a standard gas prior to and after each use (PID/FID only). | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| c. Inspected for leaks and obvious signs of wear on a weekly basis? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| d. Kept in a clean and secure area when not in use. | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| e. Verified for accuracy by use of duplicate samples (calorimetric only)? | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| 3. Has the facility maintained a leak log? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| 4. The following area should be checked for leaks by the inspector: | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| Hose connections, fitting couplings, and valves | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| Door gaskets and seating | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| Filter gaskets and seating | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| Pumps | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| Solvent tanks and containers | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| Water separators | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| Muck cookers | <input type="checkbox"/> Y | <input checked="" type="checkbox"/> N |
| Stills | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| Exhaust dampers | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| Diverter valves | <input type="checkbox"/> Y | <input checked="" type="checkbox"/> N |
| Cartridge Filter housing | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |

Shea Jackson

1/6/2009

Inspector=s Name (Please Print)

Date of Inspection

Within one year of this inspection

Inspector=s Signature

Date of Next Inspection

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.) ☒ Y ☐ N ☐ 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). ☒ Y ☐ N ☐ 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? ☒ Y ☐ N ☐ 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? ☒ Y ☐ N ☐ 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? ☐ Y ☐ N ☒ 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? ☒ Y ☐ N ☐ NA

ADDITIONAL SITE INFORMATION

Facility Name:	Coastal Cleaners, Inc.
ARMS #:	103 0352

- *I met with Mr. Lim, the facility contact. I observed the dry to dry machine was not in operation at this time.*
- *I reviewed the 2007– 2008 calendar records. The calendars were in order with purchase receipts and waste manifest invoices attached to the appropriate months. The most recent manifest was 12/2008 for perc waste removal of 2 drums 80 gallons/150lbs.*
- *The temperature and leak checks had been checked, as records were up to date 12/31/2008*
- *The Perchloroethylene usage total for January 2008 was 116.7 gallons. The highest total for usage was January 2008 was 116.7 gallons.*
- *Mr. Lim inquired stated he was going to continue to copy the blank calendar forms and use for 2009. I gave Mr. Lim a copy of SBEAP information for the link to download the 2009 calendar, if he changes his mind, and also the P2R2 booklet for waste and P Pamphlet.*
- *Mr. Lim stated the dryer maintains a 44°F temperature very regularly, as I observed his temperature recordings in the calendar ranges were 43 – 45°F.*
- *The equipment appeared to be in good condition, there were no perc odors detected.*
- *I observed Mr. Lim's new Tek Mate Inficon Halogen detector. I looked at manual and is certified SAE 2716 will read < 25 ppm Perc during leak checks. Mr. Lim demonstrated the use of the detector an audible beep was heard during use on dryer, no alarms sounded. (see photos)*
- *The source appears to be in compliance at this time.*

ADDITIONAL SITE INFORMATION

Facility Name:	Coastal Cleaners, Inc.
ARMS #:	103 0352

Machine #1:															
Manufacturer	<i>Union Air L84002000</i>	Capacity	lbs												
Model#	Serial#	Mfg yr													
Machine #2:															
Manufacturer	Capacity	lbs													
Model#	Serial#	Mfg yr													
<p>Notification (unpermitted sources only):</p> <p>1. Was the facility assisted in filling out the notification by the inspector? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N</p> <p>2. Did the facility insist on filling out its own notification, and will send it to FDEP? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N</p> <p>Record keeping :</p> <p>1. Does facility have statement/specs as to the design accuracy of the temperature sensor? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N (Temperature of 45EF w/accuracy ∇2EF, or 7.2EC w/accuracy of ∇1.1EC)</p> <p>Hazardous Waste:</p> <p>1. Is all perc. contaminated wastewater either treated or disposed of properly? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N</p> <p>2. If wastewater is evaporated, is it an approved system, and using carbon filtration? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N</p> <p>3. Does the facility have secondary containment for the dry-dry machine? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N</p> <p>4. Does the facility have secondary containment for any perc. waste containers? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N</p> <p>Boiler:</p> <table style="width: 100%;"> <tr> <td style="width: 20%;">Manufacturer</td> <td style="width: 30%;">Fulton</td> <td style="width: 20%;">Hp</td> <td style="width: 30%;">15</td> </tr> <tr> <td>Model #</td> <td>FB -015A</td> <td>Serial #</td> <td>104510</td> </tr> <tr> <td></td> <td></td> <td>Mfg yr</td> <td>2007</td> </tr> </table> <p>Fuel Type: Natural gas? <input checked="" type="checkbox"/> Propane? <input type="checkbox"/> Fuel oil? <input type="checkbox"/></p> <p>Comments: <i>The facility purchased new Fulton 15 HP boiler in 2007.</i> <i>Zero water evaporator and secondary containment for waste receptacles in the boiler room</i> <i>This room is on the east side of his shop.</i></p>				Manufacturer	Fulton	Hp	15	Model #	FB -015A	Serial #	104510			Mfg yr	2007
Manufacturer	Fulton	Hp	15												
Model #	FB -015A	Serial #	104510												
		Mfg yr	2007												

Coastal Cleaners, Inc.
2166 Main Street, Dunedin



Project Id: 66959 **Permit No:** 1030352-003-AG **Arms Number:** 0352
Inspector: Shea Jackson **Inspection Date:** 1/6/09
Source (EU): New, Small Perchloroethylene Dry Cleaner: One Union Air Model L84002000
(8/1/05), Dry-to-dry machine with Refrigerated Condenser. A 15 hp natural
gas fired boiler is on-site.
Description: [The machine is relatively new, and not heavy usage. The dry to dry was not in operation at this time.]

Coastal Cleaners, Inc.
2166 Main Street, Dunedin



Project Id: 66959 **Permit No:** 1030352-003-AG **Arms Number:** 0352

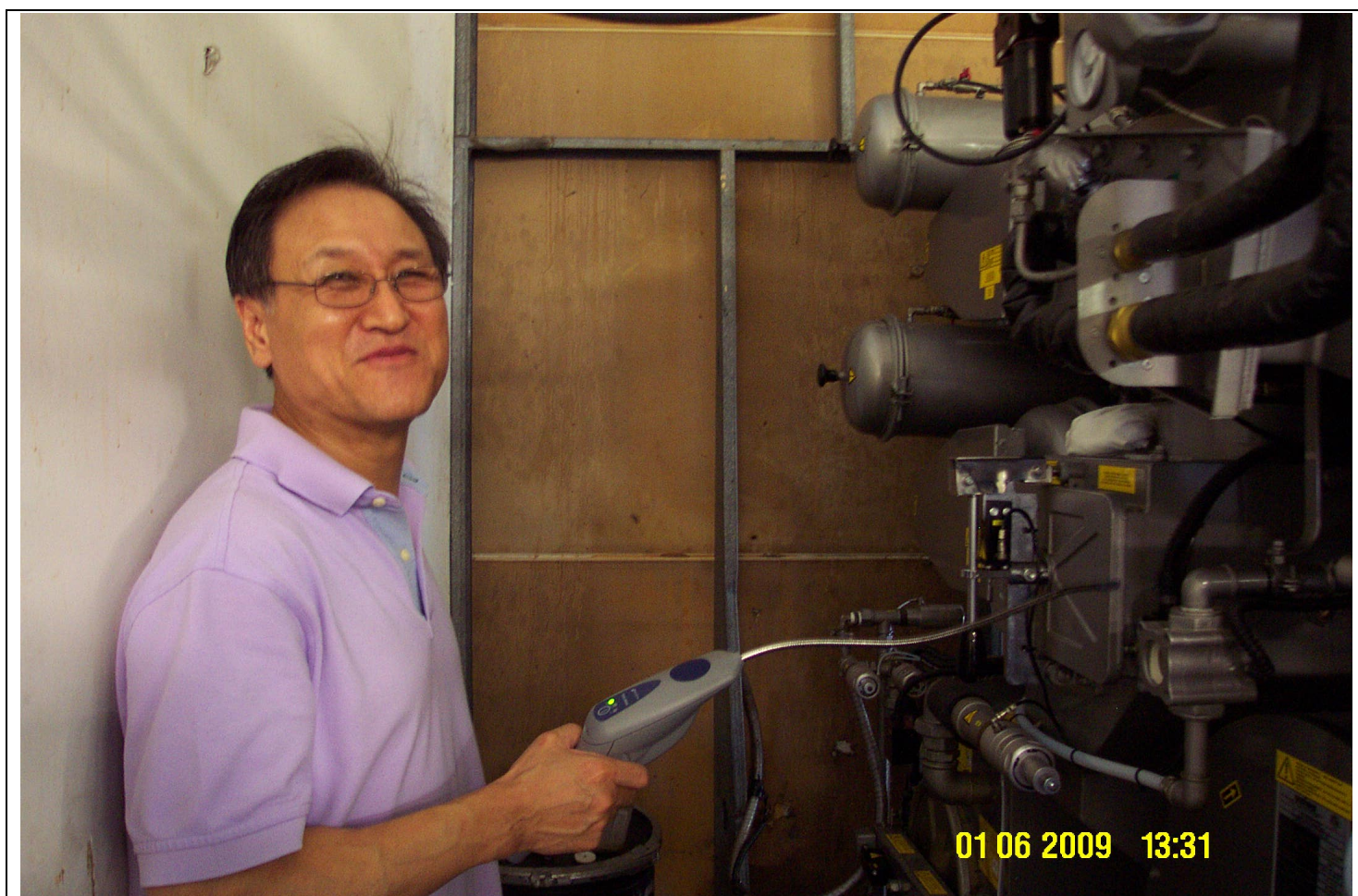
Inspector: Shea Jackson **Inspection Date:** 1/6/09

Source (EU): New, Small Perchloroethylene Dry Cleaner: One Union Air Model L84002000 (8/1/05), Dry-to-dry machine with Refrigerated Condenser. A 15 hp natural gas fired boiler is on-site.

Description: [This is the case and manual with the TEK MATE INFICON Halogen leak detector which is now used by the facility able to detect < 25 ppm]

Coastal Cleaners, Inc.

2166 Main Street, Dunedin



Project Id: 66959 **Permit No:** 1030352-003-AG **Arms Number:** 0352

Inspector: Shea Jackson **Inspection Date:** 1/6/09

Source (EU): New, Small Perchloroethylene Dry Cleaner: One Union Air Model L84002000 (8/1/05), Dry-to-dry machine with Refrigerated Condenser. A 15 hp natural gas fired boiler is on-site.

Description: [Mr. Lim demonstrated how he uses his detector to look for leaks. There is an audible beep during operation. There were no leaks detected at this time.]