



# PERCHLOROETHYLENE DRY CLEANERS



## COMPLIANCE INSPECTION CHECKLIST

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

<b>AIRS ID#:</b> 103 0352	<b>Date:</b> October 27, 2011	<b>Time In:</b> 1:15PM	<b>Time Out:</b> 1:45PM
<b>Facility Name:</b>	Coastal Cleaners, Inc.		
<b>Facility Location:</b>	2166 Main Street Dunedin, FL, 34698		
<b>Responsible Official:</b>	Dea Jin Lim	<b>Phone No:</b>	727-734-7983
<b>Emis. Unit Description:</b>	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.		
<b>Permit Number:</b>	1030352-004-AG	<b>Exp. Date:</b>	11/24/2015
<b>Facility Contact:</b>	Dea Jin Lim	<b>Phone:</b>	727-734-7983
<b>Compliance Status:</b>	<input checked="" type="checkbox"/> IN <input type="checkbox"/> MNC <input type="checkbox"/> SNC <b>Permanent Shutdown</b>		

**PART I: NOTIFICATION** (Check appropriate box) **CLOSE AG PERMIT FILE**

- Existing facility notified DARM by 9/1/96
- New facility notified DARM 30 days prior to startup
- Facility failed to notify DARM to use general permit

**PART II: CLASSIFICATION** **10/19/2011 Discontinued Perc usage**

**Facility indicated on notification form that it is:**  
 No Notification Form     Drop-Off Store     Out of business     **Petroleum Solvent Only**

- A.**
- |   |   |
|---|---|
| <p><u>1. Existing small area source</u><br/>         Dry-to-dry only, x &lt;140 gal/yr<br/>         Transfer only, x &lt;200 gal/yr <input type="checkbox"/><br/>         Both types, x &lt;140 gal/yr<br/>         (Constructed before 12/9/91)</p> <p><u>3. Existing large area source</u><br/>         Dry-to-dry only, 140&gt; x &lt;2,100 gal/yr<br/>         Transfer only, 200&gt; x &lt;1,800 gal/yr <input type="checkbox"/><br/>         Both types, 140&gt; x &lt;1,800 gal/yr<br/>         (Constructed before 12/9/91)</p> | <p><u>2. New small area source</u><br/>         Dry-to-dry only, x &lt;140 gal/yr<br/>         Transfer only, x &lt;200 gal/yr <input type="checkbox"/><br/>         Both types, x &lt;140 gal/yr<br/>         (Constructed on or after 12/9/91)</p> <p><u>4. New large area source</u><br/>         Dry-to-dry only, 140&gt; x &lt;2,100 gal/yr<br/>         Transfer only, 200&gt; x &lt;1,800 gal/yr <input type="checkbox"/><br/>         Both types, 140&gt; x &lt;1,800 gal/yr<br/>         (Constructed on or after 12/9/91)</p> |
|---|---|

**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 n/a 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: 83.9 Gallons. Month with highest use was September 2011. Did facility exceed limits  Y  N**

### 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 type="checkbox"/> Y | <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 2. Examining the containers for leakage?  | <input type="checkbox"/> Y | <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 3. Closing and securing machine doors except during loading/unloading?  | <input type="checkbox"/> Y | <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 4. Draining cartridge filters in their housing or in sealed containers for at least 24 hours prior to disposal?                     | <input type="checkbox"/> Y | <input type="checkbox"/> N | <input checked="" 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 type="checkbox"/> Y            | <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 2. Equipped dry-to-dry machines with a closed-loop vapor venting system?   | <input type="checkbox"/> Y            | <input type="checkbox"/> N | <input checked="" 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 type="checkbox"/> Y            | <input type="checkbox"/> N | <input checked="" 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 | <input type="checkbox"/> NA            |
| 5. Repaired or adjusted the equipment within 24 hours if the exhaust temperature of the condenser exceeded 45 <sup>o</sup> 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 | <input type="checkbox"/> 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 temperature at the condenser inlet and outlet weekly?  
Is the temperature differential equal to or greater than 10°F?  Y  N  NA
3. Measured and recorded the perc concentration weekly at the end of the final drying cycle while the machine is venting to the atmosphere. If machines are equipped with a carbon adsorber?  
Is the perc concentration or less than 10 ppm?  Y  N  NA
4. Assured that the sampling position on adsorber exhaust for measuring perc. concentrations is at least 10 duct diameters downstream of any bend, contraction, or expansion; is at least 10 diameters upstream from any bend contraction, or expansion; and downstream from the condenser 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?  
Problem corrected?  Y  N  NA
8. Maintained compliance plan, if applicable?  Y  N  NA

**PART VI: LEAK DETECTION AND REPAIRS**

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

Shea Jackson	August 27,2011
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

### Inspection Comments:

- Inspection of the facility was performed to determine the status of the facility change from use of Perchloroethylene to Ecosolve, Aliphatic Hydrocarbon solvent.
- I met with the responsible official and facility contact Mr. Dea Lim. He had completed the Union Air dry to dry machine and Perchloroethylene removal from his facility.
- I observed the hazardous waste invoices for the Perc disposal. The records had been maintained into October 2011, until the removal of the Union Air L8400.
- His new machine is a Union Nova 40SS and does not use Perc. I observe the machine was installed and uses ecosolve for cleaning. (See Photos)
- Mr. Dea Lim will send a rescind permit letter in to the A.Q. Department to complete the closure of the Air General Permit file.

**ADDITIONAL SITE INFORMATION**

<b>Facility Name:</b>	Coastal Cleaners, Inc.
<b>ARMS #:</b>	103 0352

<b>Machine #1:</b>			
Manufacturer	Union Air L84002000	Capacity	lbs
Model#	<b>Removed from facility</b>	Serial#	Mfg yr
<b>Machine #2:</b>			
Manufacturer	Union Nova 40SS	Capacity	lbs
Model#	<b>New Hydrocarbon machine</b>	Serial#	Mfg yr

**Notification (unpermitted sources only):**

- 1. Was the facility assisted in filling out the notification by the inspector?  Y  N
- 2. Did the facility insist on filling out its own notification, and will send it to FDEP?  Y  N

**Record keeping :**

- 1. Does facility have statement/specs as to the design accuracy of the temperature sensor?  Y  N  
(Temperature of 45<sup>0</sup>F w/accuracy +/- 2<sup>0</sup>F, or 7.2EC w/accuracy of +/- 1.1<sup>0</sup>C)

**Hazardous Waste:**

- 1. Is all perc. Contaminated wastewater either treated or disposed of properly?  Y  N
- 2. If wastewater is evaporated, is it an approved system, and using carbon filtration?  Y  NA
- 3. Does the facility have secondary containment for the dry-dry machine?  Y  N
- 4. Does the facility have secondary containment for any perc. waste containers?  Y  NA

**Boiler:**

Manufacturer	Fulton	Hp	15
Model #	FB -015A	Serial #	104510
		Mfg yr	2007

Fuel Type:    Natural gas?                          Propane?                                  Fuel oil?           

**Comments:**    Exempt boiler

**Coastal Cleaners, Inc.**  
2166 Main Street, Dunedin



**Project Id:** 80691      **Permit No:** 1030352-004-AG      **Arms Number:** 0352

**Inspector:** Shea Jackson      **Inspection Date / Time:** 10/27/2011

**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 new Hydrocarbon machine Union model Nova 40SS replaced the Perc Union Air Model L84002000 dry to dry machine]



# Coastal Cleaners, Inc.

2166 Main Street, Dunedin



**Project Id:** 80691      **Permit No:** 1030352-004-AG      **Arms Number:** 0352

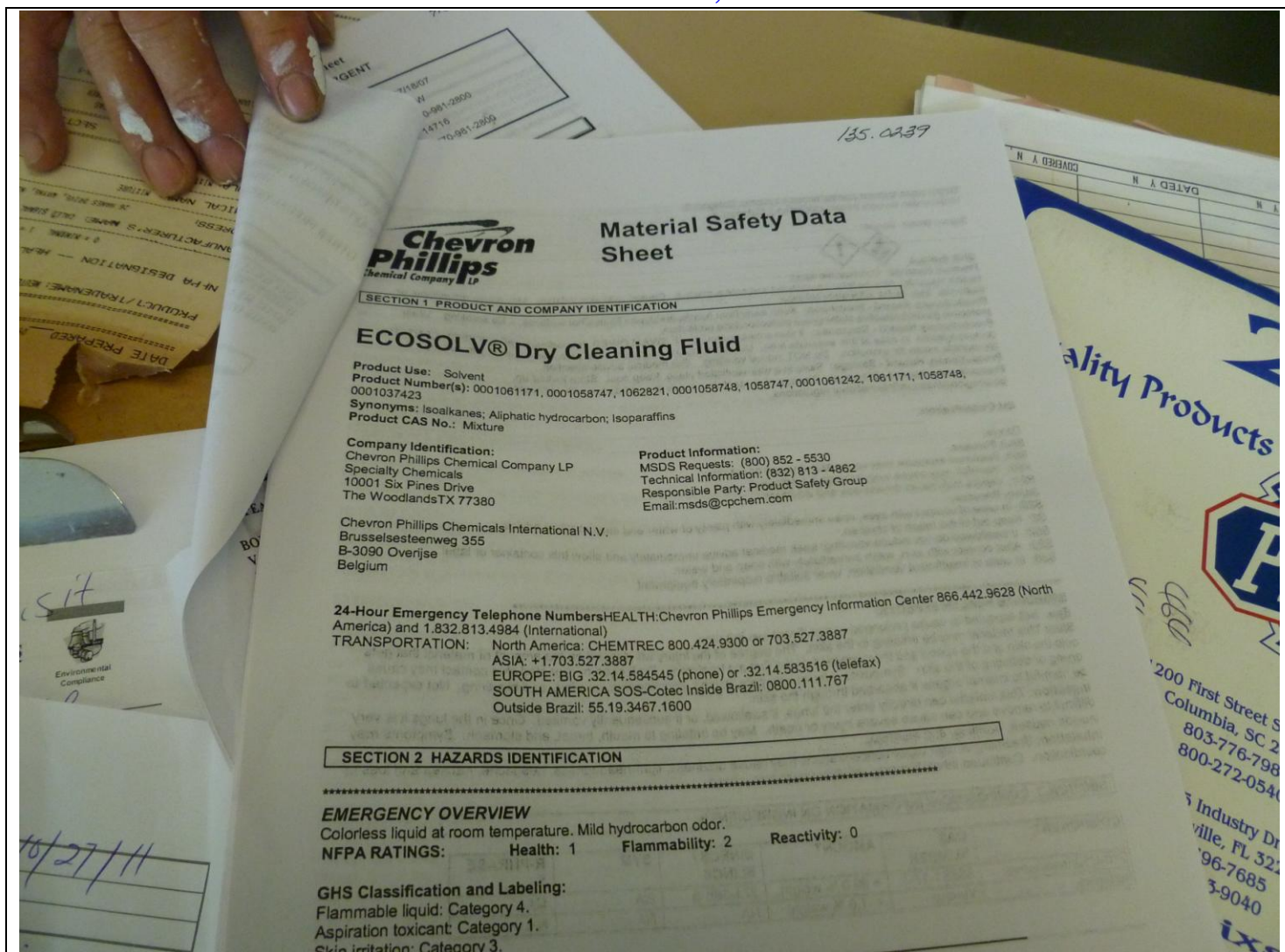
**Inspector:** Shea Jackson      **Inspection Date / Time:** 10/27/2011

**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 new machine was hooked up to use Hydro carbon and not Perc. ]

# Coastal Cleaners, Inc.

2166 Main Street, Dunedin



**Project Id:** 80691      **Permit No:** 1030352-004-AG      **Arms Number:** 0352

**Inspector:** Shea Jackson      **Inspection Date / Time:** 10/27/2011

**Source (EU):** Removal of New 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 new machine is using Ecosolve, aliphatic hydrocarbon instead of Perc]

# Coastal Cleaners, Inc.

2166 Main Street, Dunedin

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number FLCESQG	2. Page 1 of 1	3. Emergency Response Phone 800-424-9300	4. Manifest Tracking Number 007912566 JJK	
5. Generator's Name and Mailing Address COASTAL CLEANERS 2166 MAIN STREET DUNEDIN FL 34698						
Generator's Site Address (if different than mailing address) Shipping Address: 2166 MAIN STREET DUNEDIN, FL 34698						
6. Transporter 1 Company Name MCP SYSTEMS ATLANTA, INC.						
7. Transporter 2 Company Name Clean Harbors Environmental Services						
8. Designated Facility Name and Site Address CLEAN HARBORS RECYCLING SERVICES OF OHIO, LLC 591 MILLIKEN DR SE HEBRON OH 43025						
Facility's Phone: (740) 928-2632						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. RW WASTE TETRACHLOROETHYLENE, 6.1 UN1897, III Standard Filters 3562652	1 D			F002 D038 D008 D007 D040 D029
	X	2. RW WASTE TETRACHLOROETHYLENE, 6.1 UN1897, III Spill 3562652	1 D			F002 D038 D008 D007 D040 D029
	X	3. RW WASTE TETRACHLOROETHYLENE, 6.1 UN1897, III Liquid 3 15Gal, 30Gal, 55Gal 3562653	3 D F	470		F002 D038 D008 D007 D040 D029
	X	4. RW WASTE TETRACHLOROETHYLENE, 6.1 UN1897, III Liquid 1 15Gal, 30Gal, 55Gal 3562652	1 D			F002 D038 D008 D007 D040 D029
14. Special Handling Instructions and Additional Information ERG #150 Prev. Handling No. 393.00 PERC Check # 393.00 PAST CURRENT PERC COLLECTOR CASE						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
16. Generator's/Officer's Printed/Typed Name X DAE JIN LIM						
Signature _____ Month Day Year 1 8 11						
17. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
18. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name GEORGE _____ Signature _____ Month Day Year 1 8 11						

**Project Id:** 80691      **Permit No:** 1030352-004-AG      **Arms Number:** 0352

**Inspector:** Shea Jackson      **Inspection Date / Time:** 10/27/2011

**Source (EU):** Removal of 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:** [Removal of perchloroethylene and waste in preparation of the Perc machine removal had been completed]