

IMAGE QUALITY

AS YOU VIEW THE FOLLOWING  
DOCUMENT, PLEASE NOTE THAT  
PORTIONS OF THE ORIGINAL WERE OF  
POOR QUALITY

UNIVERSITY of PENNSYLVANIA

Office of Environmental Health and Radiation Safety

14th Floor Blockley Hall  
Philadelphia, PA 19104-6021  
Tel. 215-898-4453  
Fax: 215-898-0140

*11/7/97*  
*Send to Vicki Valade for Reference*

October 30, 1997

Florida Department of Environmental Resources  
Bureau of Hazardous Waste Management  
Twin Towers Bldg.  
2600 Blair Stone Rd  
Tallahassee, FL 32399-2400

RECEIVED  
RCRA

NOV 7 1997

*File*

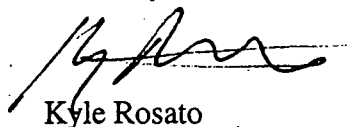
Subject: Hazardous Waste Manifest Documents No:  
PAC 3569440

Dear Sir or Madam:

Enclosed please find an amended copy 3 (TSD State) of the above referenced Hazardous Waste Manifest.

Line 1b, indicates that (2) drums were returned to the generator. The enclosed bill of lading documents these drums were properly returned the generator. Please contact me if you have any questions.

Sincerely,



Kyle Rosato

enclosures

TSD State Manifest File

97-2390 KR/dpr

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading.

The property described below, in apparent good order, except as noted (contents and condition of packages in possession of the shipper under this contract) agree to carry to its usual place of destination in accordance with the instructions on the bill of lading and to deliver to the consignee in the same condition as received, except for ordinary wear and tear, and to hold the shipper harmless for any loss or damage to the property in transit, except as noted on the date hereof, if that is a rail or a rail-water shipment, or 120 days for other modes of shipment. The shipper hereby certifies that he is familiar with all the terms and conditions of the same and that the conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

if packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier is destination, if on its route, otherwise to deliver to another carrier on the route to said destination if it actually is not every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic

used throughout this contract as meaning any person or  
each corner of all or any of said property over all or any  
all of said to be forth (1) in Uniform French Classification

DATE SHIPPED 9/27/97

ORIGINATING CARRIER DART (US Ecology)

AMERICAN ECOLOGY RECYCLE CENTER 109 Flint Road Oak Ridge, TN 37830  
423-461-5148 482-5532

UNIVERSITY OF PENNSYLVANIA

(Mail or street address of consignee - For purposes of notification only.)

DESTINATION	STATE	COUNTY
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DELIVERY ADDRESS *D. ...* (To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

CONNECTING CARRIER(S)	DELIVERING CARRIER	TRACTOR NO.	TRAILER NO.
1			


Attn: Vlad Zabagay

DELIVERING CARRIER	TRACTOR NO.	TRAILER NO.
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NUMBER PACKAGES	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS, AND EXCEPTIONS	*WEIGHT (Subject to Correction)	CLASS OR RATE	CK. COL.
2	X Waste Flammable Liquid N.O.S. (Toluene, xylene), 3, UN1993 PGII Limited Quantity Radioactive Material	1,100 Kg		
	original See Return Manifest			
	RECEIVED RCRA			
	NOV 7 1997			

UNLESS A GREATER VALUE IS DECLARED, THE SHIPPER HEREBY RELEASES THE VALUE TO \$5000.00 PER TON OF 2000 POUNDS FOR EACH ARTICLE. THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

**UNLESS OTHERWISE NOTED VEHICLE CONTAINS HAZARDOUS MATERIALS PROPERLY PLACARDED IN ACCORDANCE WITH 49CFR172. 506.**

ARRIVED AT SHIPPER	DATE	TIME A.M. P.M.	PREARRANGED SCHEDULE	<input type="checkbox"/> YES <input type="checkbox"/> NO	DATE	TIME A.M. P.M.	LOADING STARTED	DATE	TIME A.M. P.M.
LOADING COMPLETED	DATE	TIME A.M. P.M.	VEHICLE RELEASED	DATE	TIME A.M. P.M.	SHIPPER'S SIGNATURE  9/27/97			
IF THIRD PARTY BILLING, BILL TO:					SHIPPER, PER		AGENT, PER		

**SIGNATURE TALLY RECEIPT** - Must be filled out and signed at origin and each time the shipment changes custody.

DATE SHIPMENT RECEIVED FROM CONSIGNOR				2ND TIME CARGO CHANGED CUSTODY				4TH TIME CARGO CHANGED CUSTODY			
DATE 09-27-97	TIME	TRACTOR NO.	DATE	TIME	TRACTOR NO.	DATE	TIME	TRACTOR NO.			
DRIVER'S SIGNATURE James E. Miller		HOME TERMINAL		DRIVER'S SIGNATURE		HOME TERMINAL		DRIVER'S SIGNATURE		HOME TERMINAL	
ARRIVED AT CONSIGNEE	DATE	TIME A.M. P.M.	PREARRANGED SCHEDULE <input type="checkbox"/> YES <input type="checkbox"/> NO	DATE		TIME A.M. P.M.	UNLOADING STARTED	DATE	TIME A.M. P.M.		
UNLOADING COMPLETE	DATE	TIME A.M. P.M.	VEHICLE RELEASED	DATE	TIME A.M. P.M.	CONSIGNEE'S SIGNATURE N.20					
RECEIVED THE ABOVE DESCRIBED PROPERTY IN GOOD CONDITION EXCEPT AS NOTED						X					

9-28-97

Date

ORIGINAL GENERATOR:

Name: UNIVERSITY OF PENNSYLVANIA

Contact: Kyle Rosato

Phone: 215-898-7187

Address: OEHS 1408 Blockley Hall  
418 GURDIAN DR.  
PHILADELPHIA, PA 19104-6021

MANIFEST NO.: PAC3569440 69440

Dear Generator:

Material on the above noted manifest has been determined by Perma-Fix of Florida to be unacceptable for the reason(s) noted below. This condition was noted after our initial acceptance of the material.

Per instructions from our State regulators, we are not to issue a new manifest for returning this material to you, but are directed to:

- (1) Send two (2) copies of this form to you with a copy of the original manifest attached (*return receipt requested*);
- (2) Send the material back with additional copies of the same paperwork accompanying it; and
- (3) Follow-up in a timely manner to assure you received paperwork accompanying it.

As the Original Generator you must:

- (4) Return one of the copies to Perma-Fix of Florida, Inc. from Step (1) **WHEN** the material arrives acknowledging its return; and
- (5) File original paperwork of Step 1 with your Generator's original paperwork.

ITEM ID	QUANTITY SIZE	DATE SHIPPED	REASON(S) FOR RETURN
R97-R02	7.5		Generator Request
R97-R03	7.5		Generator Request

Return 1 copy to: Perma-Fix of Florida, Inc.  
 1940 N.W. 67th Place  
 Gainesville, FL 32653  
 Attn: Manifest Coordinator

Questions? Call (904) 373-6066

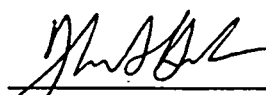
Return of above items is acknowledged by Original Generator.

Name \_\_\_\_\_

Company \_\_\_\_\_

Date Material Received \_\_\_\_\_

Your cooperation is greatly appreciated.

  
 \_\_\_\_\_  
 Manifest Coordinator  
 Perma-Fix of Florida, Inc.

Distribute as follows:

- 2 Originals - 1 to Generator, 1 to be signed/returned to Perma-Fix upon receipt
- 1 copy - Transporter 1
- 1 copy - Broker
- 1 copy - Transporter 2
- 1 copy - Original Generator



PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES  
Bureau of Waste Management  
P. O. Box 8550  
Harrisburg, PA 17105-8550

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS  
AND CHEMOTHERAPEUTIC WASTE.

Form approved.  
OMB No. 2050-00  
Expires 9-30-91

ER-WM-51 REV. 11/89

In case of an emergency or spill immediately call the National Response Center (800) 424-8802 and the PA DER (717) 787-4343

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law but is required by State law.				
3. Generator's Name and Mailing Address UNIVERSITY OF PENNSYLVANIA OE HRS 1408 BLOCKLEY HALL 418 GURDIAN DRIVE PHILADELPHIA, PA 19104-6021		4. Generator's Phone (215) 898-7187		A. State Manifest Document Number PAC 3569440		B. State Gen. ID			
5. Transporter 1 Company Name Dart Trucking Company Inc.		6. US EPA ID Number DND069865825		C. State Trans. ID PA-1AHI02191		D. Transporter's Phone (800) 538-2516			
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Trans. ID PA-		F. Transporter's Phone			
9. Designated Facility Name and Site Address Pomfret of Florida 1740 NW 67th Place Gainesville, FL 32606		10. US EPA ID Number FLD980711071		G. State Facility's ID		H. Facility's Phone (904) 373-2666			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.			
a. <del>WASTE FLAMMABLE LIQUID N.O.S., UN 1993</del> (TOLUENE, XYLENE) - HAZ. CLASS 3 - PG II Limited quantity (radioactive material)			012 DM	02170 lb.		F003			
b. <del>WASTE FLAMMABLE LIQUID N.O.S., UN 1993</del> (TOLUENE, XYLENE) - HAZ. CLASS 3 - PG II LIMITED QUANTITY - UN 1910 HAZ. CLASS 7			002 DM	00450 lb.		F003			
c. Radioactive Material									
d. NOT USED									
J. Additional Descriptions for Materials Listed Above			K. Handling Codes for Wastes Listed Above						
Lab Pack	Physical State	Lab Pack	Physical State	a. B		c.			
a. <input type="checkbox"/>	L LIQUID	c. <input type="checkbox"/>		b. B		d.			
b. <input type="checkbox"/>	L LIQUID	d. <input type="checkbox"/>							
15. Special Handling Instructions and Additional Information MATERIALS CONTAINS EXEMPT (LESS THAN 1.35 KBq/g OF H-3 and C-14) WITH EXCEPTION OF 2 CONTAINERS - SEE ATTACHED RADIOACTIVE MANIFEST 898-7187 24 HR. EMERGENCY PHONE # (215) 898-9035 (FIFES) ERG 128									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.									
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name Kyle Rosato			Signature Kyle Rosato			MONTH DAY YEAR 10/7/22/97			
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name JAMES E. SCHILLER			Signature James E. Schiller			MONTH DAY YEAR 10/7/22/97			
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name			Signature			MONTH DAY YEAR			
19. Discrepancy Indication Space * 2 drums Returned per Generator Request									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. /									
Printed/Typed Name Raymond White			Signature Raymond White			MONTH DAY YEAR 10/7/28/97			

APPROVED BY OMB: NO. 3150-0158  
EXPIRES: 3/31/98

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 5.43 HOURS. THIS UNIFORM MANIFEST IS REQUIRED BY NRC TO MEET REPORTING REQUIREMENTS OF FEDERAL AND STATE AGENCIES FOR THE SAFE TRANSPORTATION AND DISPOSAL OF LOW-LEVEL WASTE. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (14 F33), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20542-0001, AND TO THE PAPERWORK REDUCTION PROJECT (0150-0160), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST										1. MANIFEST TOTALS				2. MANIFEST NUMBER					
Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste										NUMBER OF PACKAGES/CONTAINERS	NET WASTE VOLUME (m <sup>3</sup> )	NET WASTE WEIGHT (kg)	U-233	U-235	Pu	TOTAL	PAGE 1 OF 2 PAGE(S)		
										ALL NUCLIDES	TRITIUM	ACTIVITY (MBq)	C-14	TC-99	S-129	SOURCE (kg)			
										14	2.80	1190	NP	NP	NP	NP	PAC 3569440		
										720.0	515.0	20.0	NP	NP	NP	UNIVERSITY OF PENNSYLVANIA			
DISPOSAL CONTAINER DESCRIPTION										WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER									
CONTAINER IDENTIFICATION NUMBER/GENERATOR ID NUMBER(S)	CONTAINER DESCRIPTION (See Note 1)	VOLUME (m <sup>3</sup> )	WASTE AND CONTAINER WEIGHT (kg)	SURFACE RADIATION LEVEL (mSv/hr)	SURFACE CONTAMINATION (MBq/100 cm <sup>2</sup> )		PHYSICAL DESCRIPTION		CHEMICAL DESCRIPTION		RADIOLOGICAL DESCRIPTION		WASTE CLASSIFICATION (See Note 3)						
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTION (See Note 2)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER	13. SORBENT SOLIDIFICATION, STABILIZATION, MEDIA (See Note 3)	14. CHEMICAL FORM/ CHELATING AGENT	15. WEIGHT & CHELATING AGENT IF > 0.1%	16. INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT							
R97-R02	4	0.2	102	1.3	Ø	Ø	59 scint. liquid	> 852	virginol	scint. liquid (TOLUENE, XYLENE)	0	S-35 (44.4 MBq) NA-22 (18.5) CL-36 (3.7)	RB-86 (11.1) H-3 (3.7) Total: 85.1	AU					
R97-R03	4	0.2	103	0.1	Ø	Ø	11	> 852	11	11	0	S-35 (81.4) RB-86 (14.8) Fe-55 (3.7)	Total: 100.0	AU					
U96-D38	4	0.2	71	Ø	Ø	Ø	11	> 852	11	11	0	H-3 (40.3)	Total: 40.3	AU					
A97-D03	4	0.2	92	Ø	Ø	Ø	4	> 852	11	11	0	H-3 (49) C-14 (1.9)	Total: 50.9	AU					
A97-D01	4	0.2	51	Ø	Ø	Ø	4	> 852	4	11	0	H-3 (6.1) C-14 (1.9)	Total: 8.0	AU					
R97-D03	4	0.2	93	Ø	Ø	Ø	11	> 852	11	11	0	H-3 (109.5) C-14 (10.84)	Total: 120.34	AU					

NOTE 1: Container Description Codes. For containers requiring disposal in approved structural overpacks, the numerical code must be followed by "OP".

1. Wooden Box or Crate	9. Drummer
2. Metal Box	10. Gas Cylinder
3. Plastic Drum or Pad	11. Bulk, Unpackaged Waste
4. Metal Drum or Pad	12. Unpackaged Components
5. Metal Tank or Liner	13. High Integrity Container
6. Concrete Tank or Liner	14. Other: Describe in item 8 or additional page
7. Polyethylene Tank or Liner	

NOTE 2: Waste Descriptor Codes. (Choose up to three which predominate by volume.)

30. Charcoal	29. Demolition Rubble	38. Evaporator Bottoms/Sludges/Concentrates
31. Incinerator Ash	30. Cation Ion Exchange Media	39. Compressible Trash
32. Soil	31. Anion Ion Exchange Media	40. Noncompressible Trash
33. Gas	32. Mixed Bed Ion Exchange Media	41. Animal Carcass
34. Oil	33. Contaminated Equipment	42. Biological Material (except animal carcass)
35. Aqueous Liquid	34. Organic Liquid (except oil)	43. Activated Material
36. Fibers/Media	35. Glassware or Laboratory	44. Other: Describe in item 11, or additional page
37. Mechanical all items	36. Sealed Source all items	
38. 1" or less State Hazardous	37. Paint or Plating	

NOTE 3: For solidification media that meet disposal site structural stability requirements, the numerical code must be followed by "S". For all solidification media, the vendor (manufacturer) and brand name must also be identified in item 13. Code 100-NONE REQUIRED.

Sorption				Solidification			
80. Speed Dry	84. Safe T Sort	89. Chem-Sort	94. Polysorb	80. Other	80. Cement	84. Vinyl Ester Glyrene	
81. Catium	85. Safe T On	90. Chem-Sort	95. Polysorb S	Describe in item 13, or additional page	81. Concrete (encapsulation)	89. Other: Describe in item 13, or additional page	
82. Floor Dry	86. Fluoro X	91. Chem-Sort	96. Aqueous		82. Bitumen		
83. Superfine	87. Fluoro X	92. Chem-Sort	97. Aqueous S		83. Vinyl Chloride	100. None Required	
84. 14 Dry	88. Solid A Tech	93. Chem-Sort					

FE SS  
Other  
Dm # R97-R02  
Dm # R97-R03