

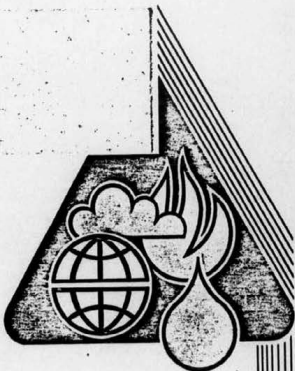


U.S. ENVIRONMENTAL PROTECTION AGENCY

2,2,2
Contract No. 68-01-6669

2/7/69

TECHNICAL
ASSISTANCE
TEAM



Region I

ROY F. WESTON, INC.
Spill Prevention & Emergency Response Division
In Association with Jacobs Engineering Group Inc. Tetra Tech Inc.
and ICF Incorporated



WESTON
DESIGN/TECH CONSULTANTS

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AUBURN ROAD LANDFILL ADMINISTRATIVE RECORD

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ADMINISTRATIVE RECORD

AUBURN ROAD LANDFILL
LONDONDERRY, NEW HAMPSHIRE
DRUM SAMPLING

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WESTERN SPER

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01-F-00734 (5093)

WESTON · SPER

Suite 202, 111 South Bedford Street, Burlington, MA 01803 • (617) 229-6430

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-01-6669

February 12, 1986

Mr. Steven R. Novick
Deputy Project Officer
U.S. Environmental Protection Agency
60 Westview Street
Lexington, MA 02173

Dear Mr. Novick:

This report fulfills the requirements of Technical Direction Document No. 01-8601-18. TAT members assisted EPA personnel in the performance of a site investigation/assessment at the Auburn Road Landfill in Londonderry, New Hampshire. TAT provided ambient monitoring using the HNU photoionization detector, the explosimeter/oxygen meter, and the Thyac radiation meter. The monitoring detected no organic vapors, radiation hazards or oxygen levels below 19.5%. Explosive atmosphere levels ranged from 0% LEL to 100% LEL at the site. Samples were randomly collected from two drums at the site and returned to the New England Regional Lab for analysis. If there are any questions regarding this report, please contact me at (617) 229-6430.

Sincerely,

ROY F. WESTON, INC.

Mark S. Hall
Mark S. Hall
Acting Technical Assistance
Team Leader

cc: R. Ankstitus

MSH/jsp

Roy F. Weston, Inc.
SPILL PREVENTION & EMERGENCY RESPONSE DIVISION
In Association with Jacobs Engineering Group Inc., Tetra Tech, Inc., and ICF Incorporated

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II. TECHNICAL DIRECTION DOCUMENT


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5093

RECEIVED TECHNICAL DIRECTION DOCUMENT (TDD) OHH EMERGENCY RESPONSE AND SPILL PREVENTION PROGRAM JAN 30 11 01 TAT REG I ROY F. WESTON, INC.		2. NO.: 01860118 2A. TYPE: 13
3. PRIORITY: <input checked="" type="checkbox"/> HIGH (1) <input type="checkbox"/> MEDIUM (2) <input type="checkbox"/> LOW (3)	4. SOURCE OF FUNDS: <input checked="" type="checkbox"/> CERCLA (1) <input type="checkbox"/> 311 (2) <input type="checkbox"/> OTHER (3)	5. EPA SITE ID (IF APPLICABLE): 53 5A. EPA SITE NAME (IF APPLICABLE): Auburn Rd Landf
6. COMPLETION DATE: 2/21/86		7. OVERTIME APPROVED: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
8. REFERENCE INFO: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> ATTACHED <input type="checkbox"/> PICK UP		
9. GENERAL TASK DESCRIPTION: Investigate Buried Drums @ Auburn Rd Landfill site in Londonderry, NH		
9A. SPECIAL PROJECT - ESTIMATED COST: _____ ESTIMATED HOURS: _____		
10. SPECIFIC ELEMENTS: 1. Investigate site conditions for organic vapors, radiation, combustible gases & O ₂ 2. Assess site conditions for presence of buried drums, open/leaking containers. 3. Screen drums for presence of organic vapors, combustible gases, radiation. 4. Take samples from drums. 5. Take pictures of drum departures. 6. Identify hazards posed by the barrels + violations of CERCLA + Section 311		11. INTERIM DEADLINES: 1/29/86 1/29/86 1/29/86 1/29/86 1/29/86
12. DESIRED REPORT FORM: FORMAL REPORT <input checked="" type="checkbox"/> LETTER REPORT <input type="checkbox"/> FORMAL BRIEFING <input type="checkbox"/> OTHER (SPECIFY): Trip report		
13. COMMENTS: TATs ASSIGNED - Anderson, HANUAR		
14. AUTHORIZING DPO:  (SIGNATURE)		15. DATE: 1/30/86
16. RECEIVED BY: <input checked="" type="checkbox"/> ACCEPTED <input type="checkbox"/> ACCEPTED WITH EXCEPTIONS <input type="checkbox"/> REJECTED (TATL SIGNATURE)		17. DATE: 1/31/86

18. DESCRIPTOR 01 860118X113AUBURN Rd LONDDRYE0352W1 11X

Sheet 1 of 1 - TATL Copy
 Sheet 2 of 1 - OHH Copy (Signed by TATL, Replicate Original)

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III. NARRATIVE SUMMARY



01-F-00735 (5093)

NARRATIVE SUMMARY

On Wednesday, January 29, 1986 Anthony Andronico and John Hagopian of the Roy F. Weston Technical Assistance Team (TAT) and Robert Ankatitus and Chet Janowski of the U.S. Environmental Protection Agency (EPA) performed a site assessment and investigation of the Auburn Road Landfill in Londonderry, New Hampshire. Approximately 100 drums in various condition could be seen on the site. Some of these drums were partially buried and others were partially submerged in the small brook or in the low lying swamp area on the site. From the positioning of the exposed drums it appeared that additional drums may be buried on the site.

Some of the drums on site were broken, dented, rusted, corroded and had missing bungs. Most of the drums in this condition appeared to be empty and presumably their contents have been discharged into the surrounding environment.

Three intact drums which still contained some or all of their contents were discovered in this investigation. Two of these drums contained liquids which were sampled and the third contained a solid which could not be sampled. The drum containing the solid registered 100% LEL and one of the drums containing liquid registered 80% LEL on the combustable gas indicator.

The high LEL readings of the two drums indicate that these drums have an explosive potential which may present an imminent and substantial danger to the public health or welfare which constitutes a violation of CERCLA.

Pending the results of the laboratory analysis of the drum samples, further violations of both CERCLA and Section 311 may be indicated.

In their present condition, there is a substantial threat of release of the contents of the drums into the environment. If the laboratory analysis shows the drum samples to be hazardous substances, then a violation of CERCLA is indicated.

Additionally, due to the fact that drums were found in a swamp area and in a small brook on the site, a violation of Section 311 may also be shown by the lab results. The swamp and the unnamed brook on site flow into the Atlantic Ocean via the following pathway. The swamp is drained by the unnamed brook which flows into Whispering Pine's Pond. Whispering Pine's Pond feeds Cohas Brook which flows into Pine Island Pond. Pine Island Pond feeds the Merrimack River which empties into the Atlantic Ocean.

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IV. FIELD LOG SUMMARY



01-F-00736 (5093)

AUBURN ROAD LANDFILL
LONDONDERRY, NEW HAMPSHIRE

FIELD LOG SUMMARY

Wednesday, January 29, 1986

Weather: clear, cold, 10-15°F

- 07:00 hrs: Anthony Andronico and John Hagopian (TAT) loaded EPA 1142 with sampling and monitoring equipment.
- 08:00 hrs: Mr. Andronico and Mr. Hagopian departed the TAT office in Burlington, MA for the EPA New England Regional Laboratory (NERL) in Lexington, MA.
- 08:20 hrs: Mr. Andronico and Mr. Hagopian arrived at the EPA NERL and met Robert Ankstitus and Chet Janowski (EPA). Mr. Andronico and Mr. Hagopian refilled the OVA with hydrogen gas at the lab so that it would be available for use at the site.
- 09:30 hrs: Mr. Andronico, Mr. Hagopian, Mr. Ankstitus and Mr. Janowski departed the EPA NERL for the Auburn Road Landfill in Londonderry, New Hampshire.
- 10:20 hrs: The investigation team arrived at the Auburn Road Landfill and met Harold Erickson who was on site at the request of Bruce Baron.

Mr. Hagopian and Mr. Andronico started up and calibrated the HNU, the MSA Combustible Gas/Oxygen Meter and the radiation meter while Mr. Ankstitus, Mr. Janowski and Mr. Erickson discussed the scope of the sampling efforts planned for the day. Shortly thereafter Mr. Erickson departed the site.

Mr. Hagopian, Mr. Andronico, and Mr. Ankstitus donned level C protective gear and proceeded to drum area #1 (see site sketch). Approximately 20 drums were located at drum area #1, and many of them were partially submerged and frozen in the small unnamed brook that ran through this area. The investigation team was unable to obtain a drum sample in this area. The drums with openings (punctures, missing bungs, corroded metal, etc.) appeared to be empty.

.../2.

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AUBURN ROAD LANDFILL
ADMINISTRATIVE RECORD

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AUBURN ROAD LANDFILL
LONDONDERRY, NEW HAMPSHIRE
FIELD LOG SUMMARY
Page 2.

Wednesday, January 29, 1986 (Cont'd)

- 10:20 hrs: The intact drums could not be opened without sacrificing the integrity of the drums. Monitoring instruments gave only background readings in this area. Photographs were taken in this area.
- 11:30 hrs: Mr. Hagopian, Mr. Andronico, and Mr. Ankstitus then proceeded directly to drum area #2. Mr. Janowski brought the truck and the decontamination equipment to decontamination area #1 (see site sketch). Approximately 25-30 drums could be seen in drum area #2. After a preliminary investigation of the area there appeared to be two drums that could be sampled. These drums were labelled EPA01 and EPA02. Mr. Hagopian and Mr. Andronico donned level B protective gear and sampled drum #EPA01. No sample could be obtained from drum #EPA02 because it contained a rubbery solid or resin. Ambient air monitoring at this area showed only background readings. Monitoring instruments in drum #EPA01 showed the following: 48 LEL, 0 ppm on the HNU and background radiation levels. Readings in drum #EPA02 were 100% LEL, 0 ppm on the HNU and background radiation levels.
- 13:30 hrs: Mr. Hagopian and Mr. Andronico decontaminated and the investigation crew then proceeded towards drum area #3 in the town landfill (see site sketch). Mr. Ankstitus, Mr. Hagopian and Mr. Andronico donned level C protective gear and proceeded to drum area #3. Approximately 15-20 drums could be seen in this area. A few of the drums were frozen in a low lying swamp area. After a preliminary investigation of the area there appeared to be a drum from which a sample could be obtained. This drum was labelled EPA03 and sampled by Mr. Andronico and Mr. Hagopian. Ambient air monitoring readings were background in this area. Readings of 80% LEL, 0 ppm on the HNU, and background radiation levels were obtained in drum #EPA03.
- 14:15 hrs: The crew decontaminated and departed the site.

.../3.

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AUBURN ROAD LANDFILL
LONDONDERRY, NEW HAMPSHIRE
FIELD LOG SUMMARY
Page 3.

Wednesday, January 29, 1986 (Cont'd)

15:30 hrs: Mr. Hagopian, Mr. Andronico and Mr. Ankstus arrived at the EPA NERL. The two drum samples were logged in with William Andrade. Mr. Hagopian and Mr. Andronico then departed the EPA NERL, and returned to the TAT office in Burlington, MA and unloaded the remaining supplies and equipment.

Anthony F. Andronico for A.F.A.
Anthony F. Andronico
February 12, 1986

jsp

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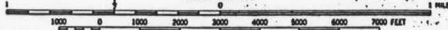
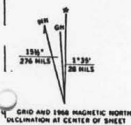
V. APPENDICES

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CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

DERRY, N. H.

NE 1/4 MANCHESTER 1ST QUADRANGLE
N4252.5—W7116.7.5

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST.

WESTON-SPER

PHOTOGRAPHS

Original photographs are included in the EPA's copy of the final report.

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100 SHELL
PHOTOGRAPHY

Film Roll: _____

APPENDIX C

Frame
Number

Site Name
Site Location

Auburn Road Landfill
Londonderry, NH

Amplifying
Information

A. Scene: Worker in Level C protection
near Drum Area I at site.

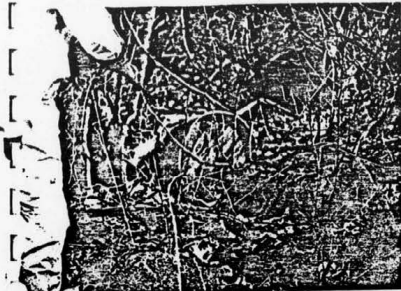


Photo By: C. Janowski

Time/Date: 1100 hrs/1-29-86

Sky Condition: clear

Camera Used: 35 mm

Setting: 100 ASA

Type of Film: kodacolor print

Witnesses: R. Ankstius

Frame
Number

Site Name
Site Location

Auburn Road Landfill
Londonderry, NH

Amplifying
Information

A. Scene: Drum Area I



Photo By: C. Janowski

Time/Date: 1115 hrs/1-29-86

Sky Condition: clear

Camera Used: 35 mm

Setting: 100 ASA

Type of Film: kodacolor print

Witnesses: R. Ankstius

AUBURN ROAD LANDFILL
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LOG SHEET
PHOTOGRAGHY

Film Roll: _____

<u>Frame Number</u>	<u>Site Name Site Location</u>	<u>Auburn Road Landfill Londonderry, NH</u>	<u>Amplifying Information</u>
---------------------	--------------------------------	---	-------------------------------

A. Scene: Drum Area 2



Photo By: C. Janowski

Time/Date: 1200 hrs/ 1-29-86

Sky Condition: clear

Camera Used: 35 mm

Setting: 100 ASA

Type of Film: kodacolor print

Witnesses: R. Ankstitus

<u>Frame Number</u>	<u>Site Name Site Location</u>	<u>Auburn Road Landfill Londonderry, NH</u>	<u>Amplifying Information</u>
---------------------	--------------------------------	---	-------------------------------

A. Scene: A. Andronico and J. Hagopian
collect sample EPA 01 et Drum
Area 2



Photo By: C. Janowski

Time/Date: 1230 hrs/1-29-86

Sky Condition: clear

Camera Used: 35 mm

Setting: 100 ASA

Type of Film: kodacolor print

Witnesses: R. Ankstitus

APPENDIX D

U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I

SOURCE Drum EPA 01 PERMIT NO _____
 CITY Londonbury Mill COLLECTOR Hag/Ind

WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE)

AIR TEMP (°C): < 0°, 0°-10°, 11°-20°, > 21°

SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED
 (Circle One) Other _____

PARAMETERS (CHECK APPROPRIATE)

Bacil NH₃ Phenol
 BOD NO₂-3 COD
 TSS TKN PCB
 Turb T P X-Ray
 Organics O&G Other _____
 VOA's CN

FLOW MEASUREMENT

None
 Magmeter
 Venturi
 Parshall
 V-Notch
 Rectangular
 Other _____

SIZE

Inches/Degrees

METALS

Tot. Diss.
 Cd
 Cu
 Cr (T)
 *Cr (+6)
 Fe
 Hg
 Mn
 Ni
 Pb
 Sn
 Zn
 Other _____

*Unpreserved sample

LAB CODE N^o 55081

PROJECT #

STATION # 17A 57

SAMPLE TYPE: GRAB, T, V

COLLECTION DATE

Y Y M M D D Y Y M M D D

7/27/79 7/27/79

START END

COLLECTION TIME

7:30 7:40

START END

SAMPLE TEMP (°C)

pH (SU) .

TOT Cl₂ (mg/l)

SETTLABLE SOLIDS (ml/l)

FLOW METER EPA SOURCE

TOTALIZER _____

START _____

END _____

MULTIPLIER _____

EPA 86-7500-31

U.S. ENVIRONMENTAL PROTECTION AGENCY - REGION I BOSTON, MASS.

NAME OF UNIT AND ADDRESS

DIVISION OF SURVEILLANCE AND ANALYSIS
 60 WESTVIEW STREET
 LEXINGTON, MASSACHUSETTS 02175

SOURCE OF SAMPLE

Drum EPA 01

SAMPLE CREW (FIRST, INITIAL, LAST NAMES)

Neil, and Hag/Jan

DATE: YR/MO/DA

8/01/79

TIME

7:30

STATION NO.

EPA 01

SAMPLE NO.

015102711

DATE IN.

7/27/79

PRELIMINARY

ANALYST

VOA

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U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I

SOURCE EPA 03 PERMIT NO. _____

CITY London Terry Landfill COLLECTOR AND/HAG

WEATHER: CLEAR, RAIN, SNOW (CIRCLE ONE)

AIR TEMP (°C): < 0°, 0°-10°, 11°-20°, > 21°

SAMPLE LOCATION: SUPPLY WATER, WASTEWATER: RAW, TREATED (Circle One) Other _____

PARAMETERS (CHECK APPROPRIATE)

Bactl NH3 Phenol
 BOD NO2+3 COD
 TSS TKN PCB
 Turb T P X-Ray
 Organics O&G Other _____
 VOA's CN _____

FLOW MEASUREMENT

None
 Magmeter SIZE _____
 Venturi _____
 Parshall _____
 V-Notch _____
 Rectangular _____
 Other _____
 Inches/Degrees _____

METALS

Tot. Diss. _____
 Cd _____
 Cu _____
 Cr (T) _____
 *Cr (+6) _____
 Fe _____
 Hg _____
 Mn _____
 Ni _____
 Pb _____
 Sn _____
 Zn _____
 Other _____

LAB CODE No 55080

PROJECT # [] [] [] []

STATION # AP103

SAMPLE TYPE: GRAB, T, V _____

COLLECTION DATE

Y Y M M D D Y Y M M D D

7/23/79 7/27/79

START END

COLLECTION TIME

7:00 7:00

START END

SAMPLE TEMP (°C) [] []

pH (SU) [] []

TOT Cl₂ (mg/l) [] []

SETTLABLE SOLIDS (m/l) [] [] [] []

FLOW METER EPA SOURCE

TOTALIZER _____

START _____

END _____

MULTIPLIER _____

EPA R-7500-31

*Unpreserved sample

U.S. ENVIRONMENTAL PROTECTION AGENCY - REGION I BOSTON, MASS.	
NAME OF UNIT AND ADDRESS	DATE-TIME/INITIALS
DIVISION OF SURVEILLANCE AND ANALYSIS 60 WESTVIEW STREET LEXINGTON, MASSACHUSETTS 02175	<u>8/6/79</u> <u>1800</u>
SOURCE OF SAMPLE	STATION NO.
<u>Drawn EPA 03</u>	<u>AP 03</u>
SAMPLING CREW (FIRST, INITIAL, LAST NAME)	ANALYST
<u>MR/AND/HAG/KAN</u>	<u>VOA</u>
PRELIMINARY	ANALYSIS

TAT Project
APPENDIX E
SAFETY PLAN

Date: 1/28/86
Region: 01
TDD#: 01-8601-18
PCS#: 5093

A. Incident Description

1. Location: Auburn Road 2. Date: 1/28/86
Landfill, Londonderry, N.H.
3. Type: Spill Fire HW Site Other _____
4. Status Preliminary Investigation
5. Response Objectives Site assesment; drum sampling
6. Background Review: Complete Partial
If partial, why? This is a preliminary investigation.
7. Hazard Level: High Moderate Low Unknown
Inhalation Ingestion Contact Radiation
8. Site Plan/Sketch attached Yes No
9. Background Material attached Yes No

B. Material Description

1. Type: Liquid Solid Sludge Vapor/Gas
2. Chemical Name/Class _____
3. Characteristics: Corrosive Ignitable

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B. Material Description (cont'd)

3. Characteristics (cont'd) - Biological Agent ()

Volatile (✓) Toxic () Reactive ()

4. Toxicity: TLVs _____ IDLHs _____

5. Special Hazards landfill with buried and excavated drums;

6. Acute Exposure Symptoms unknown chemicals

C. Site Description

1. Size 200 ACRES

2. Surrounding Population MODERATE

3. Buildings/Homes several homes on Auburn Rd.

4. Topography land fill with rolling hills; frozen ponds and stream.

5. Receiving Waters Cahas Brook

6. Weather clear, cold < 0° C

7. Unusual Features Drums are buried; partially buried;
frozen in ponds. Physical hazards (slipping over
debris) exist.

8. Site History Landfill w/ buried & excavated drums

D. Personnel Protection

1. Entry Level of Protective clothing: A () B ()

C (✓) D ()

2. If not B, why? Refer to part D(7)

D. Personnel Protection (cont'd)

3. Site Instrument Readings:

% O2 20.9%

% IEL 4%; 90%; 100% in drum
ambient air = background (0%)

Radioactivity BACKGROUND HND BACKGROUND

OVA NOT USED Other _____

4. If no site readings, why? _____

5. Was protective level up or downgraded: Yes (✓) No ()

Up or downgraded to: A () B () C () D (✓)

Why Drum sampling was performed in level B, however, air monitoring data in the vicinity of the drums was performed in level C based on prior site investigation by EPA + 1/6 NUS FIT.

Actual Change: _____

6. Respirator Protective Equipment:

SCBA _____ Canister Type _____

Gas Mask _____ Cartridge Type _____

Ultra Twin _____

Dust Mask _____

7. Protective Clothing:

<u>tyvek (saran coated)</u>	<u>gloves (butyl) outer</u>	<u>respirator</u>
<u>Saranx/p.e. coated tyvek</u>	<u>hardhats; splash shields</u>	<u>splash suits</u>
<u>gloves (inner) surgical</u>	<u>SCBA</u>	<u>cover boots</u>
		<u>duct tape</u>

8. Field Monitoring Equipment and Materials:

OVA _____ radiation meter cooler (storage); ice

HND _____ camera; film shovels; garbage bags

Combustible gas/O₂ meter Semate ions (Baq) sample spoons; tags; lab
drum solution; covis. E-3 burg wrench; PH paper

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ADMINISTRATIVE RECORD

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E. Decontamination Procedures

1. Attach sketch showing Exclusion Zone, Contamination Reduction Zone, Support Zone and numerically labelled Decontamination Stations.
2. For each decontamination station note procedure and materials need on an attachment page.

F. General Information

1. Team members

John Haggison

Anthony Andronico

2. Site Safety Coordinator Anthony Andronico

G. Emergency Information

1. Have nearby people been evacuated: Yes () No (X)
If yes, how large an area?
Who initiated the evacuation?
2. First Aid Instructions Wash affected area with soap and water; apply first aid; proceed to nearest hospital.
3. Sources of help:

	NAME	TOWN	PHONE	NOTIFIED	
				Yes	No
Fire	Londonderry Fire	Londonderry	603-432-1124	()	()
Police	Londonderry Police	Londonderry	603-432-1111	()	()
Ambulance	Derry Fire	Derry	603-432-6121	()	()

3. Sources of help (cont'd)

	NAME	TOWN	PHONE	NOTIFIED	
				Yes	No
Hospital	Parkland Medical Center	Derry	603-432-4500	()	()
Poison Info	N.H. Poison Center		1-800-562-8236	()	()
Airport	Manchester Airport	Manchester	603-442-4732	()	()
Heliport				()	()
Site Tel				()	()
Nearest Tel				()	()

4. Emergency Telephone Numbers

WESTON Hot Line 215-524-1925 or 1926
 WESTON NPO 215-431-0797 or 0798 or
 215-692-3030
 P. D. Madefield - MPH 201-665-0359 (Home)
 Owen Dougless - HSO 215-284-7810 (Home)
 Medical Emergency 513-(21-3063 (Nat'l Service)
 EPA - ERT Emergency 201-321-6660
 Chemtrec 800-424-9300
 Centers For Disease Control 404-329-2311 (day)
 404-329-3644 (night)
 National Pesticide 800-845-7633
 Medical Emergency (Regional Services)

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Prepared by

John J. Haggins

Date

1-28-86

Approved by

Mark McDeffer

Date

2/3/86

FOR HSO USE ONLY

Reviewed and Comments _____

Action Required? Yes () No () If yes, what action _____

Followup carried out? Date _____

S.O. Signature

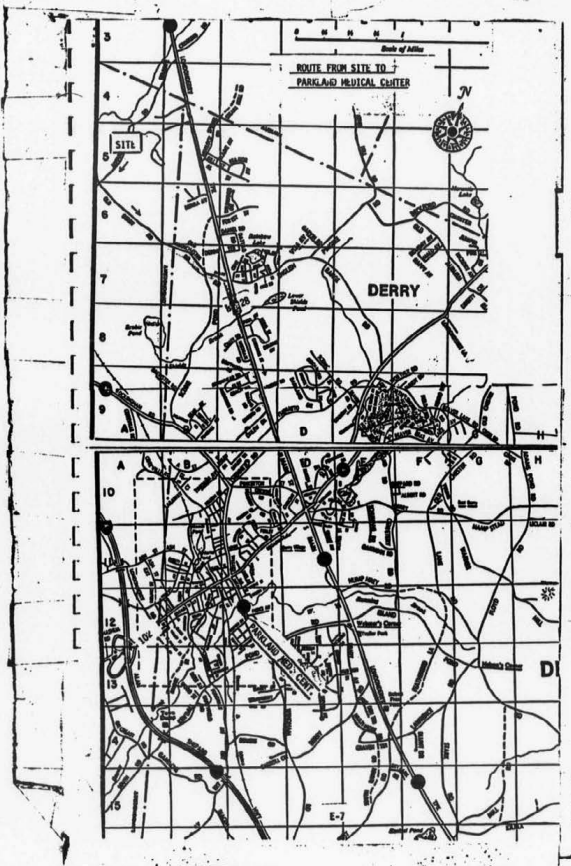
Date

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SIGNATURE PAGE

	NAME	ORGANIZATION	DATE
1.	<i>Sylvia Huggins</i>	<i>Roy F. Weston, Inc</i>	<i>1-29-86</i>
2.	<i>Sally Huggins</i>	<i>R.F. Weston</i>	<i>1/29/86</i>
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