

# ATLANTIC TESTING LABORATORIES, LIMITED

Sustaining Member—N.Y.S. Society of Professional Engineers

atl

Box 29  
Canton, N.Y. 13617  
(315) 386-4578

Box 356  
Cicero, N.Y. 13039  
(315) 699-5281

September 8, 1987

Pole-Lite Industries, Inc.  
R. D. 1, Box 143  
Champlain, NY 12919

Attn: Mr. Antonio J. Gagliardi

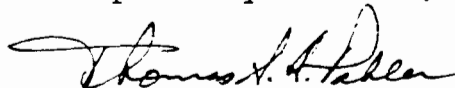
Re: NYSDEC Site No. 510004  
Pole-Lite Industries Manufacturing Facility  
Rt. 11, Champlain, Clinton County  
Report No. CTCD648-4-8-87

Gentlemen:

Enclosed is a copy of the report which describes the soil sampling program and includes the results of the environmental analysis performed on the recovered soil samples. This program was performed after the removal of sawdust stockpiles and local surficial excavation of soils suspected to be contaminated.

Please do not hesitate to contact our office should you have any questions or comments.

Respectfully submitted,



Thomas A. H. Pahler, I.E.  
Geotechnical Engineer

TAHP/smf

encs.

cc: Mr. Kevin Young  
Whiteman, Osterman, Hanna

REPORT OF  
SUBSURFACE INVESTIGATION  
AND  
PHASE I ENVIRONMENTAL ANALYSIS

-----  
POLE-LITE INDUSTRIES, INC.  
NYSDEC SITE NO. 510004  
-----

CHAMPLAIN, NY (Clinton County)

Consent Order Index No. T060386

PREPARED FOR: Mr. Antonio J. Gagliardi  
Pole-Lite Industries, Inc.  
R. D. 1, Box 143  
Champlain, NY 12919

And

Daniel Steenberge, P.E.  
NYSDEC  
Region 5 - Route 86  
Raybrook, NY 12977

And

John Iannotti, P.E.  
NYSDEC, Division of Solid and Hazardous Waste  
50 Wolf Road  
Albany, NY 12233

And

Mr. Joseph Forti  
NYSDEC, Division of Environmental Enforcement  
Rm. 618  
50 Wolf Road  
Albany, NY 12233

PREPARED BY: Atlantic Testing Laboratories, Limited  
P.O. Box 29  
Canton, NY 13617

Report No. CD648-4-8-87

September 9, 1987



atl

ATLANTIC TESTING LABORATORIES, Limited

REPORT OF  
SUBSURFACE INVESTIGATION  
AND  
PHASE I ENVIRONMENTAL ANALYSIS

-----  
POLE-LITE INDUSTRIES, INC.  
NYSDEC SITE NO. 510004  
-----

CHAMPLAIN, NY (Clinton County)

INTRODUCTION

At the request and authorization of Mr. Antonio J. Gagliardi of Pole-Lite Industries, Inc., and in accordance with New York State Department of Environmental Conservation Consent Order No. T060386, a subsurface investigation and environmental analysis was performed during the period of July 1 through August 11, 1987.

The subsurface investigation consisted of advancing soil borings adjacent to the former sawdust stockpiles and barrel storage locations. The investigation took place subsequent to removal and excavation of soil suspected of being contaminated in these areas.

The environmental analysis consisted of the performance of EPA Method 624 with peak identification on soil samples which were representative of the in-situ soils located below the bottom of the sawdust stockpiles and the barrel storage area.

The purpose of this investigation was to determine the nature of the subsurface conditions and determine if there is significant evidence of contamination at each respective test location. The environmental analysis was performed to quantify the suspected contaminants at each boring location and assist in determining whether monitoring wells should be installed for a groundwater analysis.

The soil borings were advanced using 3-1/4" I.D. hollow stem augers in accordance with ASTM D-1452. Soil samples were obtained and standard penetration testing was performed utilizing a 2" O.D. split barrel sampler in accordance with ASTM D-1586.

The soil sampling tools were washed with acetone and hexane, and rinsed with potable water prior to and subsequent to the soil sampling.

The soil boring surface elevations were determined in the field using conventional survey techniques. The elevations are based on an assumed datum using the plant's finished floor as a referenced benchmark of elevation 100.0.

All the soil samples were visually classified in the laboratory by an Intern Geologist using the Burmister Soil Classification System in accordance with ASTM D-2488 (see "Classification of Material" on the boring logs). The soil classifications are based on visual and manual observations.

#### SITE HISTORY

Pole-Lite Industries, Inc. has been manufacturing tapered aluminum light poles at the referenced facility since 1973. The manufacturing process basically consists of spinning a straight aluminum stock on a lathe-type machine to taper the stock. In the machining process, a heavy weight machine oil is spread on the stock as a lubricant. Once the stock has been tapered, a cleaning solvent (mineral spirits) is used to wash the oil from the finished pole. The excess cleaning solvent and oil drips into a catch trough on the tapering machine. Occasionally, during movement of the finished piece, a small amount of oil and solvent drips onto the floor. Sawdust is spread on the floor to absorb the oil. From 1973 to 1985, the oil soaked sawdust was stored on the premises of Pole-Lite at the two locations shown on the boring location plan. As of March 1986, the sawdust is being stored in covered 55-gallon drums.

In other portions of the manufacturing process, such as welding of bases and arms to poles, another type of cleaning solvent is used. The solvent used for this process is 1, 1, 1 trichloroethane. The trichloroethane is applied to areas to be welded with sponges then spoiled into 5-gallon pails. The used trichloroethane is currently stored in 55-gallon drums along with the used lubricating oil and mineral spirits. From the period of 1973 to 1984, the majority of the used solvents and oils were taken off the site by employees and local farmers, and incinerated, the balance was stored on-site. Occasional spillage of this stored material is suspected.

In 1984, Pole-Lite began storing the used solvent in 55-gallon drums. In 1985, the supplier of the solvents suggested that Pole-Lite Industries register with the EPA and consult the EPA concerning proper handling and disposal of the waste products.

During the Spring of 1985, Pole-Lite obtained an EPA number (NYD062037726). The NYSDEC inspected the facility on May 30, 1985, and on June 21, 1985, an official report (Oil spill Report No. 850955) was made noting several deficiencies concerning the storage of waste products. The report also requested five primary clean-up measures.

Upon receipt of the report, Pole-Lite Industries contracted New England Marine Contractors, Inc. (NEMC) of Williston, Vermont, to perform the requested work. NEMC is a registered clean-up contractor, approved by the NYSDEC, and was recommended to Pole-Lite Industries by the local (Region 5) NYSDEC personnel.

After extensive and lengthy delays, NEMC reported the results of a preliminary sampling program to the NYSDEC office on September 30, 1985. This submission is contained in Attachment No. 3 of our formal Proposed Investigation Outline. These test results verified low level contamination of

the sawdust piles and surface soils. On October 21, 1985, the NYSDEC requested a groundwater investigation. Pole-Lite Industries engaged NEMC to perform the required investigation in early November 1985. Again, after length delays associated with NEMC, the NYSDEC requested Pole-Lite to proceed with the required investigation on February 14, 1986.

Upon receipt of this request, Pole-Lite contracted Atlantic Testing Laboratories, Limited (ATL) to proceed with the required investigation.

As the first step of the investigation, ATL sampled the two sawdust piles and the surface soils in the vicinity of the drum storage area on March 24, 1986. Duplicate samples were collected at each location and submitted to two separate laboratories (NYSDEC approved) for analysis. The report of this investigation was contained in Attachment No. 4 of our formal Proposed Investigation Outline, a copy of which is included in Appendix E.

Pole-lite has since been working with DEC and Atlantic Testing Laboratories, Limited, in order to conform with the regulatory requirements.

In March 1986, Pole-Lite contacted Safety Kleen, Inc. of Barrie, Vermont to properly dispose of the used solvents and oil. While investigating Safety Kleen's permits with the DEC in Raybrook, NY, Pole-Lite was informed by the DEC that a RCRA inspection would be performed.

The inspection was performed on March 14, 1986, with a report issued on March 27, 1986. The inspection was two-fold; one being an update on the previous year's oil spill (No. 850955), and the other a RCRA report.

The RCRA documented some deficiencies, namely, the storage of used solvents and oils (sixty 55-gallon drums). In compliance, the barrels were removed from the site within 60 days by Safety Kleen.

In June 1987, Pole-Lite contacted Clean Harbors, Inc., a hazardous waste contractor, for the removal of the sawdust piles.

During the period of June 22-26, 1987, the sawdust piles and surficial soils suspected of being contaminated were removed from the site by Clean Harbors, Inc.

During the period of July 1 through August 11, 1987, a soil sampling program and environmental analysis was performed by ATL as outlined in Phase I, Item No. 4 in the Scope of Services of ATL's formal Proposed Investigation Outline dated September 19, 1986. The results of this investigation are included herein.

#### SUBSURFACE CONDITIONS

Three soil borings were advanced adjacent to the sawdust stockpile locations and barrel storage area. These borings ranged from 6 ft to approximately 11.5 ft in depth. The sampling interval was continuous for each boring.

Boring B-7 was advanced near the northwest former sawdust stockpile. There was approximately six inches of surficial soil removed from this particular site, therefore, the soil sampling began six inches below the original surface. The soils generally consisted of silty clays and clayey silts in a stiff consistency. Auger refusal was encountered 5 ft below the surface, so the boring was relocated approximately 4 ft in a southerly direction. Auger refusal was encountered 6 ft below the surface at this location. Saturated soil was noted from 5 to 6 ft depth range directly overlying what is felt to be bedrock, but no water was noted in the bore hole.

Boring B-8 is representative of the soils in the vicinity of the barrel storage area. The boring was carried to 11.7 ft below grade. Soil sampling began at 5 ft below the surface which was at the same elevation as the bottom of the adjacent soil excavation.

The soils were found to be a relatively compact gravelly, silty sand typical of a glacial till. The soils were noted to be saturated approximately 7 ft below grade but no water was evident in the bore hole.

Boring B-9 was advanced adjacent to the northeast sawdust stockpile excavation. The excavation was approximately 5 ft in depth, therefore, soil sampling began 5 ft below the surface. The boring was carried to 11 ft where it was terminated. The soil encountered was representative of a brown glacial till and was noted to be saturated 7 ft below the surface.

There were no noted groundwater observations during this investigation but based on the saturated soil samples, the groundwater table is expected to exist at 7 to 10 ft below the surface.

#### CHEMICAL ANALYSIS

Soil samples were analyzed by Aquatec Environmental Services, using EPA Method 624 with peak identification. The laboratory analytical report is included in Appendix D.

The B-7 samples obtained in the vicinity of the former northwest sawdust stockpile, which are representative of 0.5-2.0 ft, 2.0-4.0 ft, and 5.0-6.0 ft depth ranges, did not contain any detectable, quantifiable amounts of volatile organic compounds. Similarly, the B-9 samples obtained in the vicinity of the northeast sawdust stockpile, which are representative of 5.0-7.0 ft, 7.0-9.0 ft, and 9.0-11.0 ft, did not contain any detectable, quantifiable amounts of volatile organic compounds.

The B-3 samples obtained in the vicinity of the barrel storage area are representative of 5.0-7.0 ft, 7.0-7.7 ft, 8.0-10.0 ft, and 10.0-11.7 ft depth ranges. The results are summarized on Table 1. 1,1,1-trichloroethane, 1,1-dichloroethane and xylene, acetone and methylene chloride were detected at the



sampling location B-8 in varying depths at low concentrations. All of the concentrations were below 0.5 parts per million. In general, the concentrations decreased with depth.

Other volatile compounds not on the hazardous substance list of Appendix 23 of 6 NYCRR Part 371 were identified by relative peak locations. These chemicals are suspected components of the machine oil previously used and stored in barrels near the vicinity of B-8 sampling location.

TABLE 1

Volatile Organic Compounds in ug/l

| B-8       | 1,1,1,-trichlorethane | 1,1-dichloroethane | xylenes         | acetone           | methylene chloride |
|-----------|-----------------------|--------------------|-----------------|-------------------|--------------------|
| 5.0-7.0   | 77                    | 5                  | 5               | 390c <sup>1</sup> | LCB <sup>4</sup>   |
| 7.0-7.7   | 140                   | 39                 | 96              | ND <sup>3</sup>   | LCB <sup>4</sup>   |
| 8.0-10.0  | 14                    | ND <sup>3</sup>    | 3J <sup>2</sup> | 58                | 15                 |
| 10.0-11.7 | 29                    | ND <sup>3</sup>    | ND <sup>3</sup> | 10c <sup>1</sup>  | 11c <sup>1</sup>   |

1. "C" means the results have been corrected for the presence of the compound in the blank.
2. "J" means an estimated value. The mass spectrum indicates the presence of the compound, but the calculated result is less than the reliable detection limit for this compound.
3. "ND" means not detected.
4. "LCB" means compound was found but at low concentrations, comparable to that in the blank. Quantitation is not possible.

Acetone was present in several of the soil samples, but its significance is questionable because acetone was one of two solvents used in the field to clean equipment in order to prevent cross-contamination during sampling. The use of acetone and hexane as solvents was recommended by Mr. Steenberge because these solvents were typically not used in Pole-Lite's manufacturing process.

#### CONCLUSION

This program quantifies the contaminant concentrations within the soil matrices at each suspected local contamination site within the premises of Pole-Lite Industries. The results of the analysis indicate that the contaminant concentrations were found to be low.

At the B-7 sampling location (i.e., the former northwest sawdust pile) and at the B-9 sampling location (i.e., the former northeast sawdust pile), no contaminants were detected at levels of concern. The sampling program has demonstrated that the initial phase of the remedial program was successful in eliminating the source of contaminants. We do not feel there is a need to conduct any additional investigation or remedial work at these locations.

At the B-8 sampling location (i.e., the drum storage area), the concentration of contaminants detected are felt to be at levels that are not likely to pose significant environmental concern. With the exception of acetone (which was used in the field to clean sampling equipment), the highest concentration of total volatile organics were noted between 5.0 to 7.0 ft and 7.0 to 7.7 ft, where the concentrations were found to be 0.087 and 0.275 parts per million, respectively. At the lower depths (i.e., 8.0 to 10.0 ft and 10.0 to 11.6 ft), the total volatile organic chemical concentrations decreased to 0.017 and 0.029 parts per million, respectively. Based on the results of the environmental analysis and the relative size of the drum storage area (approximately 30-40 ft in diameter), we feel that there is no need to pursue

the balance of the proposed investigation (i.e., monitoring well installation).

In lieu of the monitoring well installation, we recommend that Pole-Lite Industries sample its drilled well and other water supply wells in the vicinity of the site on a semi-annual or annual basis over an extended period of time and analyze the water samples using EPA method 624 (with peak identification) for aqueous solutions.

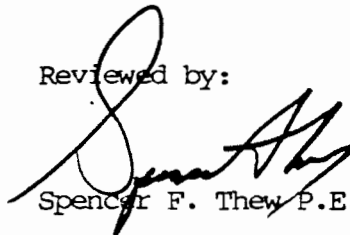
Included are a Site Location Map, Boring Location Plan, soil boring logs, Environmental Report and Sawdust Sampling Report.

Prepared by:



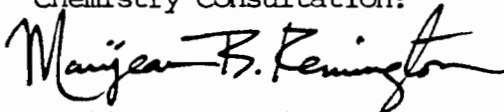
Thomas A. H. Pahler, I.E.  
Geotechnical Engineer

Reviewed by:



Spencer F. Thew P.E./L.S.

Chemistry Consultation:

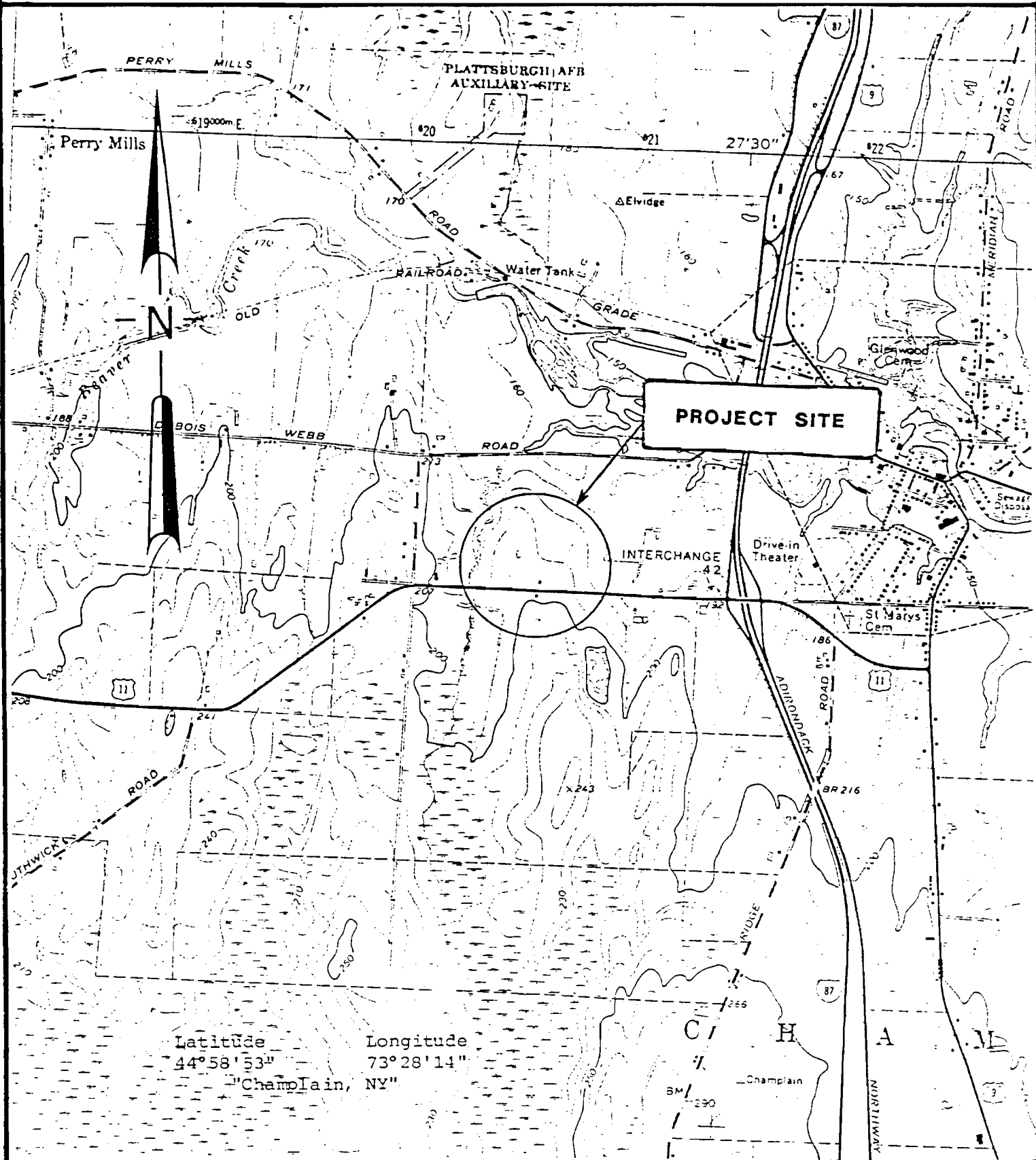


Marijean B. Remington

/dh

APPENDIX A  
SITE LOCATION MAP

# SITE LOCATION MAP



PROJECT No.

CD648-86

**SCALE:**

$$1'' = 2000'$$

U.S.G.S. QUADRANT:

Champlain, NY

APPENDIX B  
BORING LOCATION PLAN

## ATLANTIC TESTING LABORATORIES, Limited

DATE

3-10-86

SHEET 1 OF

1

1

JOB NO.

CD 648-86

SUBJECT

POL-E-LITE INDUSTRIES, INC.  
PROPOSED BORING LOCATION PLAN

BY

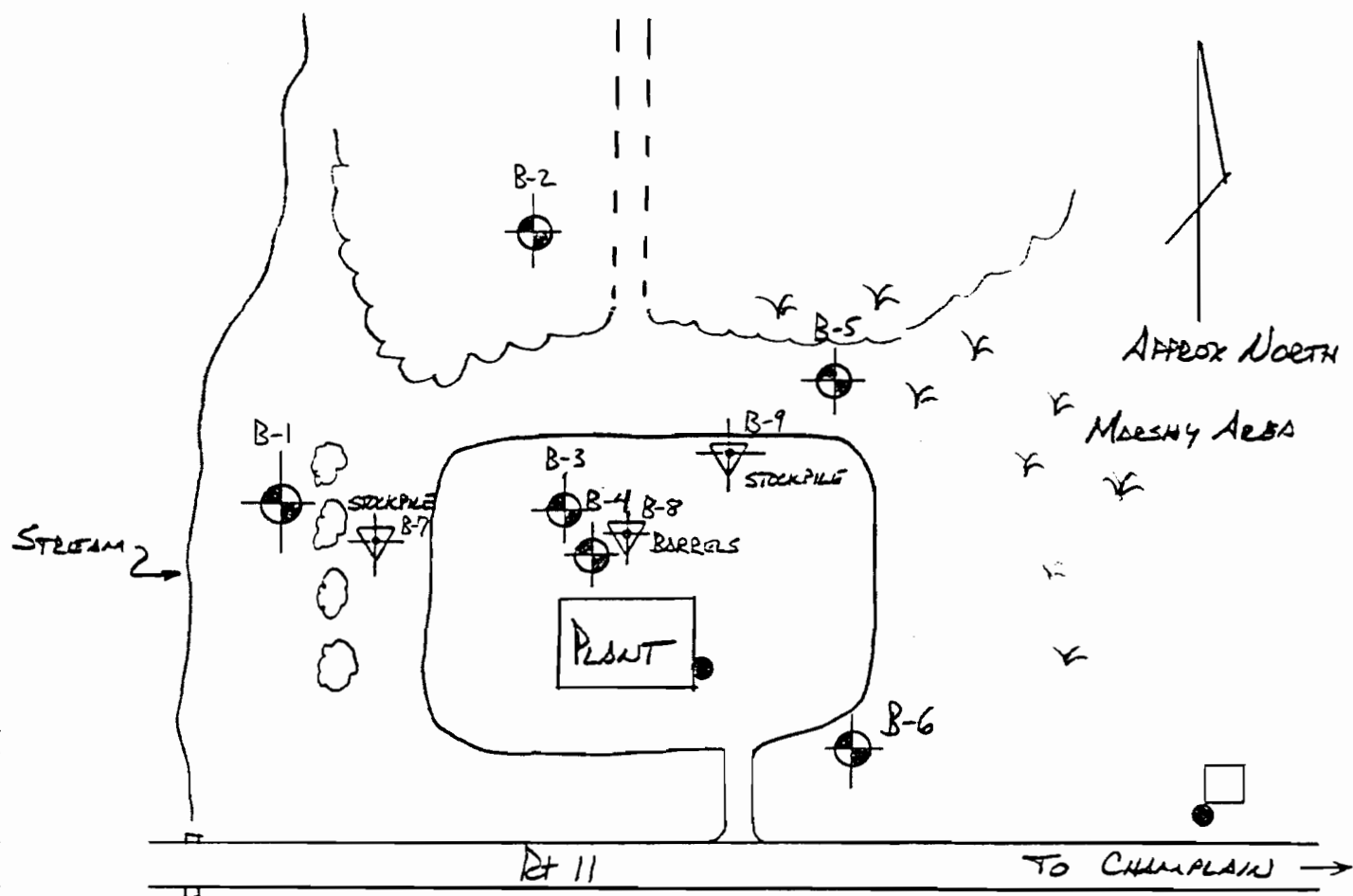
TAA

CHK'D

JTC

APPROV'D

SFT



● WATER WELL IN BEDROCK AQUIFER

▽ SUSPECTED AREA

⊕ SOIL BORING LOCATION  
(OBSERVATION WELL)

+ SOIL SAMPLING (6 FT IN DEPTH)

APPENDIX C  
BORING LOGS





## SUBSURFACE INVESTIGATION

|        |                                   |                    |                 |
|--------|-----------------------------------|--------------------|-----------------|
| CLIENT | <u>Pole-Lite Industries, Inc.</u> | Location of Boring | <u>See Plan</u> |
|        | <u>Champlain, NY</u>              |                    |                 |

|         |                                  |             |        |               |
|---------|----------------------------------|-------------|--------|---------------|
| PROJECT | Spill #85-0955                   |             |        |               |
|         | Champlain Manufacturing Facility | Date, start | 7/1/87 | Finish 7/1/87 |

### Ground Water Observations

## Casing Hammer

## Sampler Hammer

Wt \_\_\_\_\_ lbs.

Wt 140 lbs.

Fall \_\_\_\_\_ in.

Fall 30 in.

Ground Elev. 88.2

### Casing

H. S. Auger 3-1/4" I.D.

| Date | Time     | Depth | Casing at |
|------|----------|-------|-----------|
| None | Observed |       |           |

SS—SPLIT SPOON SAMPLE  
U —UNDIS. SHELBY TUBE  
P — PISTON TYPE SAMPLE

DRILLERS Randy Todd, John Saarinen



## SUBSURFACE INVESTIGATION

CLIENT Pole-Lite Industries, Inc.

Location of Boring

See Plan

CLIENT Champlain, NY

PROJECT Spill #85-0955

Champlain Manufacturing Facility

Date, start 7/1/87

Finish 7/1/87

Boring No. B-8

Sheet 1 of 1

### Ground Water Observations

## Casing Hammer

## Sampler Hammer

Wt \_\_\_\_\_ lbs.

Wt. 140 lbs.

Fall \_\_\_\_\_ in.

Fall 30 in.

Ground Elev. 99.1

Casing\_\_\_\_\_

H. S. Auger 3-1/4" I.D.

Date Time  
None Observed

### Depth

**Casing at**

SS — SPLIT SPOON SAMPLE  
U — UNDIS. SHELBY TUBE  
P — PISTON TYPE SAMPLE

DRILLERS Randy Todd, John Saarinen



## SUBSURFACE INVESTIGATION

CLIENT Pole-Lite Industries, Inc.

Location of Boring

See Plan

Chamblain, NY

PROJECT Spill #85-0955

Chamblain Manufacturing Facility

Date, start 7/1/87

|        |        |
|--------|--------|
| Finish | 7/1/87 |
|--------|--------|

Boring No. B-9

Sheet 1 of 1

### Ground Water Observations

## Casing Hammer

## Sampler Hammer

Date \_\_\_\_\_

Time

### Depth

**Casing at**

None Observed

Wt \_\_\_\_\_ lbs.

Wt 140 lbs.

Fall \_\_\_\_\_ in.

Fall 30 in.

## Casing

Ground Elev. 97.8

H. S. Auger. 3-1/4" I.D.

SS — SPLIT SPOON SAMPLE  
U — UNDIS. SHELBY TUBE  
P — PISTON TYPE SAMPLE

Randy Todd, John Saarinen

## DRILLERS

APPENDIX D  
ENVIRONMENTAL REPORT



**aquatec** INC. ENVIRONMENTAL SERVICES

75 GREEN MOUNTAIN DRIVE, SOUTH BURLINGTON, VERMONT 05403, TELEPHONE (802) 658-1074

July 24, 1987

Mr. Tom Pahler  
Atlantic Testing Laboratories, Ltd.  
P.O. Box 29  
Canton, NY 13617

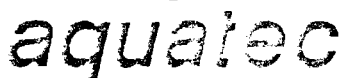
Project 87400, ETR 10861

The results of the analysis by gas chromatography/mass spectrometry of ten soil samples received by Aquatec on July 6, 1987 are enclosed.

R. Mason McNeer  
Chemist

RMM/kjn

Enclosures



**ENVIRONMENTAL SERVICES**

75 Green Mountain Drive, So. Burlington, VT 05403  
TEL. 502 638-1074

**ANALYTICAL REPORT**

Date: 24 July 1987

Aquatec Lab No.: 72257

ETR No.: 10861

Sample Received On: 6 July 1987

Sample Identification: Atlantic Testing Laboratories, Ltd., soil sample  
CD648, labeled B-7, S-1, elevation 0.5-2.0

Volatile Organic Compounds in ug/kg<sub>wet</sub>

|                           |      |                      |      |
|---------------------------|------|----------------------|------|
| benzene                   | 5 U  | methylene chloride   | LCB  |
| carbon tetrachloride      | 5 U  | chloromethane        | 10 U |
| chlorobenzene             | 5 U  | bromomethane         | 10 U |
| 1,2-dichloroethane        | 5 U  | bromoform            | 5 U  |
| 1,1,1-trichloroethane     | 5 U  | bromodichloromethane | 5 U  |
| 1,1-dichloroethane        | 5 U  | dibromochloromethane | 5 U  |
| 1,1,2-trichloroethane     | 5 U  | tetrachloroethene    | 5 U  |
| 1,1,2,2-tetrachloroethane | 5 U  | toluene              | 5 U  |
| chloroethane              | 10 U | trichloroethene      | 5 U  |
| 2-chloroethyl vinyl ether | 10 U | vinyl chloride       | 10 U |
| chloroform                | 5 U  | acetone              | 10 U |
| 1,1-dichloroethene        | 5 U  | 2-butanone           | 10 U |
| 1,2-dichloroethene        | 5 U  | carbon disulfide     | 5 U  |
| 1,2-dichloropropane       | 5 U  | 2-hexanone           | 10 U |
| trans-1,3-dichloropropene | 5 U  | 4-methyl-2-pentanone | LCB  |
| cis-1,3-dichloropropene   | 5 U  | styrene              | 5 U  |
| ethylbenzene              | 5 U  | vinyl acetate        | 10 U |
|                           |      | total xylenes        | 5 U  |

No other volatile organic compounds were found in reportable concentrations.

Key to the letters used to qualify the results of the analysis:

- |   |  |
|---|--|
| U - The compound was analyzed for but not detected. The number is the detection limit for the compound.           | J - An estimated value. The mass spectrum indicates the presence of the compound, but the calculated result is less than the reliable detection limit for this compound. |
| LCB - Compound was found but at low concentration, comparable to that in the blank. Quantitation is not possible. | C - The result has been corrected for the presence of the compound in the blank.   |

Quality controls were analyzed with the sample as part of Aquatec's standard analytical procedures. The results of these are maintained on file at Aquatec.



# aquatec

## ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05403  
TEL. 802 658-1074

### ANALYTICAL REPORT

Date: 24 July 1987

Aquatec Lab No.: 72253

ETR No.: 10861

Sample Received On: 6 July 1987

Sample Identification: Atlantic Testing Laboratories, Ltd., soil sample  
CD648, labeled B-7, S-2, elevation 2.0-4.0

#### Volatile Organic Compounds in ug/l


|                           |      |                      |      |
|---------------------------|------|----------------------|------|
| benzene                   | 5 U  | methylene chloride   | LCB  |
| carbon tetrachloride      | 5 U  | chloromethane        | 10 U |
| chlorobenzene             | 5 U  | bromomethane         | 10 U |
| 1,2-dichloroethane        | 5 U  | bromoform            | 5 U  |
| 1,1,1-trichloroethane     | 5 U  | bromodichloromethane | 5 U  |
| 1,1-dichloroethane        | 5 U  | dibromochloromethane | 5 U  |
| 1,1,2-trichloroethane     | 5 U  | tetrachloroethene    | 5 U  |
| 1,1,2,2-tetrachloroethane | 5 U  | toluene              | 5 U  |
| chloroethane              | 10 U | trichloroethene      | 5 U  |
| 2-chloroethyl vinyl ether | 10 U | vinyl chloride       | 10 U |
| chloroform                | 5 U  | acetone              | 10 U |
| 1,1-dichloroethene        | 5 U  | 2-butanone           | 10 U |
| 1,2-dichloroethene        | 5 U  | carbon disulfide     | 5 U  |
| 1,2-dichloropropane       | 5 U  | 2-hexanone           | 10 U |
| trans-1,3-dichloropropene | 5 U  | 4-methyl-2-pentanone | 10 U |
| cis-1,3-dichloropropene   | 5 U  | styrene              | 5 U  |
| ethylbenzene              | 5 U  | vinyl acetate        | 10 U |
|                           |      | total xylenes        | 5 U  |

No other volatile organic compounds were found in reportable concentrations.

#### Key to the letters used to qualify the results of the analysis:

- |   |  |
|---|--|
| U - The compound was analyzed for but not detected. The number is the detection limit for the compound.           | J - An estimated value. The mass spectrum indicates the presence of the compound, but the calculated result is less than the reliable detection limit for this compound. |
| LCB - Compound was found but at low concentration, comparable to that in the blank. Quantitation is not possible. | C - The result has been corrected for the presence of the compound in the blank.   |

Quality controls were analyzed with the sample as part of Aquatec's standard analytical procedures. The results of these are maintained on file at Aquatec.



# aquatec

## ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05403  
TEL. 802-658-1074

### ANALYTICAL REPORT

Date: 24 July 1987

Aquatec Lab No.: 72266

ETR No.: 10861

Sample Received On: 6 July 1987

Sample Identification: Atlantic Testing Laboratories, Ltd., soil sample  
CD648, labeled B-9, S-3, elevation 9.0-11.0

#### Volatile Organic Compounds in ug/kg<sub>wet</sub>

|                           |      |                      |      |
|---------------------------|------|----------------------|------|
| benzene                   | 5 U  | methylene chloride   | LCB  |
| carbon tetrachloride      | 5 U  | chloromethane        | 10 U |
| chlorobenzene             | 5 U  | bromomethane         | 10 U |
| 1,2-dichloroethane        | 5 U  | bromoform            | 5 U  |
| 1,1,1-trichloroethane     | 5 U  | bromodichloromethane | 5 U  |
| 1,1-dichloroethane        | 5 U  | dibromochloromethane | 5 U  |
| 1,1,2-trichloroethane     | 5 U  | tetrachloroethene    | 5 U  |
| 1,1,2,2-tetrachloroethane | 5 U  | toluene              | 5 U  |
| chloroethane              | 10 U | trichloroethene      | 5 U  |
| 2-chloroethyl vinyl ether | 10 U | vinyl chloride       | 10 U |
| chloroform                | 5 U  | acetone              | LCB  |
| 1,1-dichloroethene        | 5 U  | 2-butanone           | 10 U |
| 1,2-dichloroethene        | 5 U  | carbon disulfide     | 5 U  |
| 1,2-dichloropropane       | 5 U  | 2-hexanone           | 10 U |
| trans-1,3-dichloropropene | 5 U  | 4-methyl-2-pentanone | 10 U |
| cis-1,3-dichloropropene   | 5 U  | styrene              | 5 U  |
| ethylbenzene              | 5 U  | vinyl acetate        | 10 U |
|                           |      | total xylenes        | 5 U  |

No other volatile organic compounds were found in reportable concentrations.

#### Key to the letters used to qualify the results of the analysis:

- |   |  |
|---|--|
| U - The compound was analyzed for but not detected. The number is the detection limit for the compound.           | J - An estimated value. The mass spectrum indicates the presence of the compound, but the calculated result is less than the reliable detection limit for this compound. |
| LCB - Compound was found but at low concentration, comparable to that in the blank. Quantitation is not possible. | C - The result has been corrected for the presence of the compound in the blank.   |

Quality controls were analyzed with the sample as part of Aquatec's standard analytical procedures. The results of these are maintained on file at Aquatec.





# aquatec

## ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05403

TEL: 802 658-1074

### ANALYTICAL REPORT

Date: 24 July 1987

Aquatec Lab No.: 72265

ETR No.: 10361

Sample Received On: 6 July 1987

Sample Identification: Atlantic Testing Laboratories, Ltd., soil sample  
CD648, labeled B-9, S-2, elevation 7.0-9.0

#### Volatile Organic Compounds in ug/kg<sub>wet</sub>

|                           |      |                      |      |
|---------------------------|------|----------------------|------|
| benzene                   | 5 U  | methylene chloride   | LCB  |
| carbon tetrachloride      | 5 U  | chloromethane        | 10 U |
| chlorobenzene             | 5 U  | bromomethane         | 10 U |
| 1,2-dichloroethane        | 5 U  | bromoform            | 5 U  |
| 1,1,1-trichloroethane     | 5 U  | bromodichloromethane | 5 U  |
| 1,1-dichloroethane        | 5 U  | dibromochloromethane | 5 U  |
| 1,1,2-trichloroethane     | 5 U  | tetrachloroethene    | 5 U  |
| 1,1,2,2-tetrachloroethane | 5 U  | toluene              | 5 U  |
| chloroethane              | 10 U | trichloroethene      | 5 U  |
| 2-chloroethyl vinyl ether | 10 U | vinyl chloride       | 10 U |
| chloroform                | 5 U  | acetone              | LCB  |
| 1,1-dichloroethene        | 5 U  | 2-butanone           | 10 U |
| 1,2-dichloroethene        | 5 U  | carbon disulfide     | 5 U  |
| 1,2-dichloropropane       | 5 U  | 2-hexanone           | 10 U |
| trans-1,3-dichloropropene | 5 U  | 4-methyl-2-pentanone | 10 U |
| cis-1,3-dichloropropene   | 5 U  | styrene              | 5 U  |
| ethylbenzene              | 5 U  | vinyl acetate        | 10 U |
|                           |      | total xylenes        | 5 U  |

No other volatile organic compounds were found in reportable concentrations.

#### Key to the letters used to qualify the results of the analysis:

- |   |  |
|---|--|
| U - The compound was analyzed for but not detected. The number is the detection limit for the compound.           | J - An estimated value. The mass spectrum indicates the presence of the compound, but the calculated result is less than the reliable detection limit for this compound. |
| LCB - Compound was found but at low concentration, comparable to that in the blank. Quantitation is not possible. | C - The result has been corrected for the presence of the compound in the blank.   |

Quality controls were analyzed with the sample as part of Aquatec's standard analytical procedures. The results of these are maintained on file at Aquatec.

# aquatec

## ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05403  
TEL: 802 658-1074

### ANALYTICAL REPORT

Date: 24 July 1987

Aquatec Lab No.: 72264

ETR No.: 10861

Sample Received On: 6 July 1987

Sample Identification: Atlantic Testing Laboratories, Ltd., soil sample  
CD643, labeled 3-9, S-1, elevation 5.0-7.0

#### Volatile Organic Compounds in ug/kg<sub>wet</sub>

|                           |      |                      |      |
|---------------------------|------|----------------------|------|
| benzene                   | 5 U  | methylene chloride   | 8 C  |
| carbon tetrachloride      | 5 U  | chloromethane        | 10 U |
| chlorobenzene             | 5 U  | bromomethane         | 10 U |
| 1,2-dichloroethane        | 5 U  | bromoform            | 5 U  |
| 1,1,1-trichloroethane     | 5 U  | bromodichloromethane | 5 U  |
| 1,1-dichloroethane        | 5 U  | dibromochloromethane | 5 U  |
| 1,1,2-trichloroethane     | 5 U  | tetrachloroethene    | 5 U  |
| 1,1,2,2-tetrachloroethane | 5 U  | toluene              | 5 U  |
| chloroethane              | 10 U | trichloroethene      | 5 U  |
| 2-chloroethyl vinyl ether | 10 U | vinyl chloride       | 10 U |
| chloroform                | 5 U  | acetone              | LCB  |
| 1,1-dichloroethene        | 5 U  | 2-butanone           | 10 U |
| 1,2-dichloroethene        | 5 U  | carbon disulfide     | 5 U  |
| 1,2-dichloropropane       | 5 U  | 2-hexanone           | 10 U |
| trans-1,3-dichloropropene | 5 U  | 4-methyl-2-pentanone | 10 U |
| cis-1,3-dichloropropene   | 5 U  | styrene              | 5 U  |
| ethylbenzene              | 5 U  | vinyl acetate        | 10 U |
|                           |      | total xylenes        | 5 U  |

No other volatile organic compounds were found in reportable concentrations.

#### Key to the letters used to qualify the results of the analysis:

- |   |  |
|---|--|
| U - The compound was analyzed for but not detected. The number is the detection limit for the compound.           | J - An estimated value. The mass spectrum indicates the presence of the compound, but the calculated result is less than the reliable detection limit for this compound. |
| LCB - Compound was found but at low concentration, comparable to that in the blank. Quantitation is not possible. | C - The result has been corrected for the presence of the compound in the blank.   |

Quality controls were analyzed with the sample as part of Aquatec's standard analytical procedures. The results of these are maintained on file at Aquatec.

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## ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05403  
TEL. 802 658-1074

### ANALYTICAL REPORT

Date: 24 July 1987

Aquatec Lab No.: 72263

ETR No.: 10861

Sample Received On: 6 July 1987

Sample Identification: Atlantic Testing Laboratories, Ltd., soil sample  
CD648, labeled B-8, S-4, elevation 10.0-11.7

#### Volatile Organic Compounds in ug/kg<sub>wet</sub>

|                           |      |                      |      |
|---------------------------|------|----------------------|------|
| benzene                   | 5 U  | methylene chloride   | 11 C |
| carbon tetrachloride      | 5 U  | chloromethane        | 10 U |
| chlorobenzene             | 5 U  | bromomethane         | 10 U |
| 1,2-dichloroethane        | 5 U  | bromoform            | 5 U  |
| 1,1,1-trichloroethane     | 29   | bromodichloromethane | 5 U  |
| 1,1-dichloroethane        | 5 U  | dibromochloromethane | 5 U  |
| 1,1,2-trichloroethane     | 5 U  | tetrachloroethene    | LCB  |
| 1,1,2,2-tetrachloroethane | 5 U  | toluene              | 5 U  |
| chloroethane              | 10 U | trichloroethene      | 5 U  |
| 2-chloroethyl vinyl ether | 10 U | vinyl chloride       | 10 U |
| chloroform                | 5 U  | acetone              | 10 C |
| 1,1-dichloroethene        | 5 U  | 2-butanone           | 10 U |
| 1,2-dichloroethene        | 5 U  | carbon disulfide     | 5 U  |
| 1,2-dichloropropane       | 5 U  | 2-hexanone           | 10 U |
| trans-1,3-dichloropropene | 5 U  | 4-methyl-2-pentanone | 10 U |
| cis-1,3-dichloropropene   | 5 U  | styrene              | 5 U  |
| ethylbenzene              | 5 U  | vinyl acetate        | 10 U |
|                           |      | total xylenes        | 5 U  |

No other volatile organic compounds were found in reportable concentrations.

Key to the letters used to qualify the results of the analysis:

- |   |  |
|---|--|
| U - The compound was analyzed for but not detected. The number is the detection limit for the compound.           | J - An estimated value. The mass spectrum indicates the presence of the compound, but the calculated result is less than the reliable detection limit for this compound. |
| LCB - Compound was found but at low concentration, comparable to that in the blank. Quantitation is not possible. | C - The result has been corrected for the presence of the compound in the blank.   |

Quality controls were analyzed with the sample as part of Aquatec's standard analytical procedures. The results of these are maintained on file at Aquatec.



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## ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05403  
TEL. 802 658-1074

### ANALYTICAL REPORT

Date: 24 July 1987  
Aquatec Lab No.: 72262  
ETR No.: 10861  
Sample Received On: 6 July 1987  
Sample Identification: Atlantic Testing Laboratories, Ltd., soil  
sample CD648, labeled B-8, S-3, elevation  
8.0-10.0

#### Volatile Compounds not on the Hazardous Substances List

| <u>Scan No.*</u> | <u>Name</u>                              | <u>Estimated Conc.**<br/>(ug/kg<sub>wet</sub>)</u> |
|------------------|--|--|
| 324              | hexane                                   | 2  |
| 466              | 1,1,3-trimethylcyclohexane               | 6  |
| 471              | octahydroindene                          | 8  |
| 491              | an ethyl-methylcyclohexane               | 7  |
| 531              | a C <sub>3</sub> substituted cyclohexane | 29   |
| 557              | a C <sub>3</sub> substituted cyclohexane | 24   |
| 581              | a C <sub>4</sub> unsaturated hydrocarbon | 11   |
| 609              | decahydronaphthalene                     | 10   |

\* Indicates relative location of chromatographic peak in a total of 700 scans in the chromatogram, at three seconds per scan.

\*\* Concentration estimated from ratio of Enhanced Reconstructed Ion Chromatogram (ERIC) of compound to ERIC of nearest internal standard, assuming a response factor of 1.

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## ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05403  
TEL. 802 658-1074

### ANALYTICAL REPORT

Date: 24 July 1987

Aquatec Lab No.: 72262

ETR No.: 10861

Sample Received On: 6 July 1987

Sample Identification: Atlantic Testing Laboratories, Ltd., soil sample  
CD648, labeled B-8, S-3, elevation 8.0-10.0

#### Volatile Organic Compounds in ug/kg<sub>wet</sub>

|                           |      |                      |      |
|---------------------------|------|----------------------|------|
| benzene                   | 5 U  | methylene chloride   | 15 C |
| carbon tetrachloride      | 5 U  | chloromethane        | 10 U |
| chlorobenzene             | 5 U  | bromomethane         | 10 U |
| 1,2-dichloroethane        | 5 U  | bromoform            | 5 U  |
| 1,1,1-trichloroethane     | 14   | bromodichloromethane | 5 U  |
| 1,1-dichloroethane        | 5 U  | dibromochloromethane | 5 U  |
| 1,1,2-trichloroethane     | 5 U  | tetrachloroethene    | LCB  |
| 1,1,2,2-tetrachloroethane | 5 U  | toluene              | 5 U  |
| chloroethane              | 10 U | trichloroethene      | 5 U  |
| 2-chloroethyl vinyl ether | 10 U | vinyl chloride       | 10 U |
| chloroform                | 5 U  | acetone              | 58 C |
| 1,1-dichloroethene        | 5 U  | 2-butanone           | 10 U |
| 1,2-dichloroethene        | 5 U  | carbon disulfide     | 5 U  |
| 1,2-dichloropropane       | 5 U  | 2-hexanone           | 10 U |
| trans-1,3-dichloropropene | 5 U  | 4-methyl-2-pentanone | 10 U |
| cis-1,3-dichloropropene   | 5 U  | styrene              | 5 U  |
| ethylbenzene              | 5 U  | vinyl acetate        | 10 U |
|                           |      | total xylenes        | 3 J  |

See enclosed report of other volatile organic compounds found.

Key to the letters used to qualify the results of the analysis:

- |   |  |
|---|--|
| U - The compound was analyzed for but not detected. The number is the detection limit for the compound.           | J - An estimated value. The mass spectrum indicates the presence of the compound, but the calculated result is less than the reliable detection limit for this compound. |
| LCB - Compound was found but at low concentration, comparable to that in the blank. Quantitation is not possible. | C - The result has been corrected for the presence of the compound in the blank.   |

Quality controls were analyzed with the sample as part of Aquatec's standard analytical procedures. The results of these are maintained on file at Aquatec.



**ENVIRONMENTAL SERVICES**

75 Green Mountain Drive, So. Burlington, VT 05403  
TEL. 802 658-1074

**ANALYTICAL REPORT**

Date: 24 July 1987  
Aquatec Lab No.: 72261  
ETR No.: 10861  
Sample Received On: 6 July 1987  
Sample Identification: Atlantic Testing Laboratories, Ltd., soil  
sample CD648, labeled B-8, S-2, elevation  
7.0-7.7

Volatile Compounds not on the Hazardous Substances List

| <u>Scan No.*</u> | <u>Name</u>                                  | <u>Estimated Conc.**<br/>(ug/kg<sub>wet</sub>)</u> |
|------------------|--|--|
| 323              | hexane                                       | 12   |
| 376              | cis-octahydropentalene                       | 14   |
| 407              | a dimethylcyclohexane                        | 11   |
| 434              | a C <sub>8</sub> H <sub>16</sub> hydrocarbon | 73   |
| 466              | 1,1,3-trimethylcyclohexane                   | 92   |
| 470              | octahydroindene                              | 140  |
| 491              | an ethyl-methylcyclohexane                   | 90   |
| 503              | a C <sub>3</sub> substituted cyclohexane     | 63   |
| 530              | a C <sub>3</sub> substituted cyclohexane     | 330  |
| 565              | a hydrocarbon                                | 36   |
| 606              | a C <sub>3</sub> substituted benzene         | 79   |
| 621              | nonane                                       | 230  |
| 645              | a C <sub>4</sub> substituted benzene         | 85   |

\* Indicates relative location of chromatographic peak in a total of 700 scans in the chromatogram, at three seconds per scan.

\*\* Concentration estimated from ratio of Enhanced Reconstructed Ion Chromatogram (ERIC) of compound to ERIC of nearest internal standard, assuming a response factor of 1.

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## ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05403  
TEL: 802 658-1074

### ANALYTICAL REPORT

Date: 24 July 1987

Aquatec Lab No.: 72261

ETR No.: 10861

Sample Received On: 6 July 1987

Sample Identification: Atlantic Testing Laboratories, Ltd., soil sample  
CD648, labeled B-8, S-2, elevation 7.0-7.7

#### Volatile Organic Compounds in ug/kg<sub>wet</sub>

|                           |      |                      |      |
|---------------------------|------|----------------------|------|
| benzene                   | 5 U  | methylene chloride   | LCB  |
| carbon tetrachloride      | 5 U  | chloromethane        | 10 U |
| chlorobenzene             | 5 U  | bromomethane         | 10 U |
| 1,2-dichloroethane        | 5 U  | bromoform            | 5 U  |
| 1,1,1-trichloroethane     | 140  | bromodichloromethane | 5 U  |
| 1,1-dichloroethane        | 39   | dibromochloromethane | 5 U  |
| 1,1,2-trichloroethane     | 5 U  | tetrachloroethene    | 5 U  |
| 1,1,2,2-tetrachloroethane | 5 U  | toluene              | 5 U  |
| chloroethane              | 10 U | trichloroethene      | 5 U  |
| 2-chloroethyl vinyl ether | 10 U | vinyl chloride       | 10 U |
| chloroform                | 5 U  | acetone              | 10 U |
| 1,1-dichloroethene        | 5 U  | 2-butanone           | 10 U |
| 1,2-dichloroethene        | 5 U  | carbon disulfide     | 5 U  |
| 1,2-dichloropropane       | 5 U  | 2-hexanone           | 10 U |
| trans-1,3-dichloropropene | 5 U  | 4-methyl-2-pentanone | 10 U |
| cis-1,3-dichloropropene   | 5 U  | styrene              | 5 U  |
| ethylbenzene              | 5 U  | vinyl acetate        | 10 U |
|                           |      | total xylenes        | 96   |

See enclosed report of other volatile organic compounds found.

#### Key to the letters used to qualify the results of the analysis:

- |   |  |
|---|--|
| U - The compound was analyzed for but not detected. The number is the detection limit for the compound.           | J - An estimated value. The mass spectrum indicates the presence of the compound, but the calculated result is less than the reliable detection limit for this compound. |
| LCB - Compound was found but at low concentration, comparable to that in the blank. Quantitation is not possible. | C - The result has been corrected for the presence of the compound in the blank.   |

Quality controls were analyzed with the sample as part of Aquatec's standard analytical procedures. The results of these are maintained on file at Aquatec.

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## ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05403  
TEL: 802 654-1074

### ANALYTICAL REPORT

Date: 24 July 1987

Aquatec Lab No.: 72260

ETR No.: 10861

Sample Received On: 6 July 1987

Sample Identification: Atlantic Testing Laboratories, Ltd., soil sample  
CD648, labeled B-8, S-1, elevation 5.0-7.0

#### Volatile Organic Compounds in ug/kg<sub>wet</sub>

|                           |      |                      |       |
|---------------------------|------|----------------------|-------|
| benzene                   | 5 U  | methylene chloride   | LCB   |
| carbon tetrachloride      | 5 U  | chloromethane        | 10 U  |
| chlorobenzene             | 5 U  | bromomethane         | 10 U  |
| 1,2-dichloroethane        | 5 U  | bromoform            | 5 U   |
| 1,1,1-trichloroethane     | 77   | bromodichloromethane | 5 U   |
| 1,1-dichloroethane        | 5    | dibromochloromethane | 5 U   |
| 1,1,2-trichloroethane     | 5 U  | tetrachloroethene    | 5 U   |
| 1,1,2,2-tetrachloroethane | 5 U  | toluene              | 5 U   |
| chloroethane              | 10 U | trichloroethene      | 5 U   |
| 2-chloroethyl vinyl ether | 10 U | vinyl chloride       | 10 U  |
| chloroform                | 5 U  | acetone              | 390 C |
| 1,1-dichloroethene        | 5 U  | 2-butanone           | 10 U  |
| 1,2-dichloroethene        | 5 U  | carbon disulfide     | 5 U   |
| 1,2-dichloropropane       | 5 U  | 2-hexanone           | 10 U  |
| trans-1,3-dichloropropene | 5 U  | 4-methyl-2-pentanone | 10 U  |
| cis-1,3-dichloropropene   | 5 U  | styrene              | 5 U   |
| ethylbenzene              | 5 U  | vinyl acetate        | 10 U  |
|                           |      | total xylenes        | 5     |

See enclosed report of other volatile organic compounds found.

Key to the letters used to qualify the results of the analysis:

- |   |  |
|---|--|
| U - The compound was analyzed for but not detected. The number is the detection limit for the compound.           | J - An estimated value. The mass spectrum indicates the presence of the compound, but the calculated result is less than the reliable detection limit for this compound. |
| LCB - Compound was found but at low concentration, comparable to that in the blank. Quantitation is not possible. | C - The result has been corrected for the presence of the compound in the blank.   |

Quality controls were analyzed with the sample as part of Aquatec's standard analytical procedures. The results of these are maintained on file at Aquatec.





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## ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05403  
TEL. 802 658-1074

### ANALYTICAL REPORT

Date: 24 July 1987

Aquatec Lab No.: 72260

ETR No.: 10861

Sample Received On: 6 July 1987

Sample Identification: Atlantic Testing, soil sample CD648,  
labeled B8, S-1, elevation 5.0-7.0

#### Volatile Compounds not on the Hazardous Substances List

| <u>Scan No.*</u> | <u>Name</u>                | <u>Estimated Conc.**</u><br><u>(ug/kg<sub>wet</sub>)</u> |
|------------------|----------------------------|--|
| 622              | a C9 saturated hydrocarbon | 4  |

\* Indicates relative location of chromatographic peak in a total of 800 scans in the chromatogram, at three seconds per scan.

\*\* Concentration estimated from ratio of Enhanced Reconstructed Ion Chromatogram (ERIC) of compound to ERIC of nearest internal standard, assuming a response factor of 1.



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## ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05403  
TEL. 802 688-1074

### ANALYTICAL REPORT

Date: 24 July 1987

Aquatec Lab No.: 72259

ETR No.: 10861

Sample Received On: 6 July 1987

Sample Identification: Atlantic Testing Laboratories, Ltd., soil sample  
CD648, labeled B-7A, S-3, elevation 5.0-6.0

#### Volatile Organic Compounds in ug/kg<sub>wet</sub>

|                           |      |                      |      |
|---------------------------|------|----------------------|------|
| benzene                   | 5 U  | methylene chloride   | LCB  |
| carbon tetrachloride      | 5 U  | chloromethane        | 10 U |
| chlorobenzene             | 5 U  | bromomethane         | 10 U |
| 1,2-dichloroethane        | 5 U  | bromoform            | 5 U  |
| 1,1,1-trichloroethane     | 5 U  | bromodichloromethane | 5 U  |
| 1,1-dichloroethane        | 5 U  | dibromochloromethane | 5 U  |
| 1,1,2-trichloroethane     | 5 U  | tetrachloroethene    | 5 U  |
| 1,1,2,2-tetrachloroethane | 5 U  | toluene              | 5 U  |
| chloroethane              | 10 U | trichloroethene      | 5 U  |
| 2-chloroethyl vinyl ether | 10 U | vinyl chloride       | 10 U |
| chloroform                | 5 U  | acetone              | 10 U |
| 1,1-dichloroethene        | 5 U  | 2-butanone           | 10 U |
| 1,2-dichloroethene        | 5 U  | carbon disulfide     | 5 U  |
| 1,2-dichloropropane       | 5 U  | 2-hexanone           | 10 U |
| trans-1,3-dichloropropene | 5 U  | 4-methyl-2-pentanone | 10 U |
| cis-1,3-dichloropropene   | 5 U  | styrene              | 5 U  |
| ethylbenzene              | 5 U  | vinyl acetate        | 10 U |
|                           |      | total xylenes        | 5 U  |

No other volatile organic compounds were found in reportable concentrations.

#### Key to the letters used to qualify the results of the analysis:

- |   |  |
|---|--|
| U - The compound was analyzed for but not detected. The number is the detection limit for the compound.           | J - An estimated value. The mass spectrum indicates the presence of the compound, but the calculated result is less than the reliable detection limit for this compound. |
| LCB - Compound was found but at low concentration, comparable to that in the blank. Quantitation is not possible. | C - The result has been corrected for the presence of the compound in the blank.   |

Quality controls were analyzed with the sample as part of Aquatec's standard analytical procedures. The results of these are maintained on file at Aquatec.

APPENDIX E

SAWDUST SAMPLING REPORT

## ATTACHMENT NO. 4

### SECONDARY SOIL AND SAWDUST SAMPLING RESULTS

#### SAMPLING

On March 24, 1986, our Mr. Thomas A. Custeau, a Certified Engineering Technician, collected three samples at the Pole-Lite manufacturing facility. The samples are identified as follows:

SAMPLE NO. CD648-1: This sample was taken from the sawdust stockpile located in the northwestern corner of the site. The sample consisted of four separate quart jars.

SAMPLE NO. CD648-2: This sample was composed of soil excavated from several locations in the drum storage area. The soil was sampled to a depth of eight inches. The sample consisted of four separate quart jars.

SAMPLE NO. CD648-3: This sample was collected from the sawdust stockpile located in the northeastern corner of the site, and consisted of four separate quart jars.

#### ANALYSIS

Each sample consisting of four quart jars were randomly split into lots of two jars each. Two jars from each sample were submitted to separate laboratories for analysis (EPA Method No. 624 with peak identification). The test reports are attached.

#### CONCLUSION

SAMPLE NO. CD648-1:

The sawdust stockpile in the northwest corner of the site contains low levels of methylene chloride, 2-butanone, pentane, hexane and a hydrocarbon as well as slightly higher concentrations of acetone.

SAMPLE NO. CD648-2:

The soil in the vicinity of the drum storage area contains significant concentrations of the following hazardous substances:

- 1, 1, 1 trichloroethane
- 1,1 dichloroethane
- tetrachloroethane
- xylene

Other volatile compounds (non-hazardous) are also present (probably due to the use of heavy machine oil).

SAMPLE NO. CD648-3:

The sawdust stockpile located in the northeast corner of the site contains small amounts of 1, 1, 1 trichloroethane and tetrachloroethane, as well as several non-hazardous volatile compounds.



**aquatec** INC.

ENVIRONMENTAL SERVICES

75 GREEN MOUNTAIN DRIVE, SOUTH BURLINGTON, VERMONT 05401, TELEPHONE (802) 658-1074

May 1, 1986

John Carr  
Atlantic Testing Laboratories  
Box 29  
Canton, NY 13617

Project 86500, ETR 7230

The results of the analysis by gas chromatography/mass spectrometry of three samples received by Aquatec on April 2, 1986 are enclosed.

R. Mason McNeer  
Chemist

Enclosures



# aquatec

ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05401  
TEL. 802/658-1074

## ANALYTICAL REPORT

Aquatec Lab No.: 57130

ETR No.: 7230

Sample Received On: 2 April 1986

Sample Identification: Atlantic Testing Laboratories, sample soil 0-8"  
CD648-2, 3/24/86

### Volatile Organic Compounds in ug/kg

|                           |           |                      |         |
|---------------------------|-----------|----------------------|---------|
| benzene                   | 25000 U   | methylene chloride   | NDB     |
| carbon tetrachloride      | 25000 U   | chloromethane        | 50000 U |
| chlorobenzene             | 25000 U   | bromomethane         | 50000 U |
| 1,2-dichloroethane        | 25000 U   | bromoform            | 25000 U |
| 1,1,1-trichloroethane     | 1,300,000 | bromodichloromethane | 25000 U |
| 1,1-dichloroethane        | 25000 U   | dibromochloromethane | 25000 U |
| 1,1,2-trichloroethane     | 25000 U   | tetrachloroethene    | 26,000C |
| 1,1,2,2-tetrachloroethane | 25000 U   | toluene              | 25,000K |
| chloroethane              | 50000 U   | trichloroethene      | 25000 U |
| 2-chloroethyl vinyl ether | 50000 U   | vinyl chloride       | 50000 U |
| chloroform                | 25000 U   | acetone              | NDB     |
| 1,1-dichloroethene        | 130,000   | 2-butanone           | 50000 U |
| 1,2-dichloroethene        | 25000 U   | carbon disulfide     | 25000 U |
| 1,2-dichloropropane       | 25000 U   | 2-hexanone           | 50000 U |
| trans-1,3-dichloropropene | 25000 U   | 4-methyl-2-pentanone | 50000 U |
| cis-1,3-dichloropropene   | 25000 U   | styrene              | 25000 U |
| ethylbenzene              | 25000 U   | vinyl acetate        | 50000 U |
|                           |           | total xylenes        | 91,000  |

Sample was extracted into methanol and diluted 5000 fold for analysis.

Key to the letters used to qualify the results of the analysis:

U - The compound was analyzed for but not detected. The number is the detection limit for the compound.

NDB - Quantitation is not possible due to the relative concentration of the compound in the blank.

K - The compound was analyzed for and detected, but at a concentration not reliably quantifiable. The number is the detection limit for the compound.

C - The result has been corrected for the presence of the compound in the blank.

Quality controls were analyzed with the sample as part of Aquatec's standard analytical procedures. The results of these are maintained on file at Aquatec.



# aquatec

ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05401  
TEL 802/658-1074

## ANALYTICAL REPORT

Aquatec Lab No.: 57130

ETR No.: 7230

Sample Received On: 2 April 1986

Sample Identification: Atlantic Testing Laboratories, sample  
soil 0-8" CD648-2, 3/24/86

### Volatile Compounds not on the Hazardous Substances List

| <u>Scan No.*</u> | <u>Name</u>                              | <u>Estimated Conc.**<br/>(ug/kg)</u> |
|------------------|--|--------------------------------------|
| 510              | a C <sub>9</sub> hydrocarbon             | 130,000                              |
| 534              | unknown                                  | 84,000                               |
| 548              | a C <sub>3</sub> substituted cyclohexane | 58,000                               |
| 569              | unknown                                  | 55,000                               |
| 587              | a C <sub>3</sub> substituted cyclohexane | 290,000                              |
| 623              | an unsaturated hydrocarbon               | 190,000                              |
| 660              | unknown                                  | 76,000                               |
| 698              | a C <sub>3</sub> substituted benzene     | 59,000                               |
| 724              | nonane                                   | 140,000                              |

\* Indicates relative location of chromatographic peak in a total of 750 scans in the chromatogram, at three seconds per peak.

\*\* Concentration estimated from ratio of Enhanced Reconstructed Ion Chromatogram (ERIC) of compound to ERIC of nearest internal standard, assuming a response factor of 1.



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## ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05401  
TEL. 802/658-1074

### ANALYTICAL REPORT

Aquatec Lab No.: 57129

ETR No.: 7230

Sample Received On: 2 April 1986

Sample Identification: Atlantic Testing Laboratories, sample labeled N.W.  
site sawdust CD648-1, 3/24/86

#### Volatile Organic Compounds in ug/kg

|                           |       |                      |       |
|---------------------------|-------|----------------------|-------|
| benzene                   | 50 U  | methylene chloride   | 75C   |
| carbon tetrachloride      | 50 U  | chloromethane        | 100 U |
| chlorobenzene             | 50 U  | bromomethane         | 100 U |
| 1,2-dichloroethane        | 50 U  | bromoform            | 50 U  |
| 1,1,1-trichloroethane     | 50 U  | bromodichloromethane | 50 U  |
| 1,1-dichloroethane        | 50 U  | dibromochloromethane | 50 U  |
| 1,1,2-trichloroethane     | 50 U  | tetrachloroethene    | 50 U  |
| 1,1,2,2-tetrachloroethane | 50 U  | toluene              | 50 U  |
| chloroethane              | 100 U | trichloroethene      | 50 U  |
| 2-chloroethyl vinyl ether | 100 U | vinyl chloride       | 100 U |
| chloroform                | 50 U  | acetone              | 1700C |
| 1,1-dichloroethene        | 50 U  | 2-butanone           | 110   |
| 1,2-dichloroethene        | 50 U  | carbon disulfide     | 50 U  |
| 1,2-dichloropropane       | 50 U  | 2-hexanone           | 100 U |
| trans-1,3-dichloropropene | 50 U  | 4-methyl-2-pentanone | 100 U |
| cis-1,3-dichloropropene   | 50 U  | styrene              | 50 U  |
| ethylbenzene              | 50 U  | vinyl acetate        | 100 U |
|                           |       | total xylenes        | 50 U  |

Sample was diluted 10 fold for analysis.

#### Key to the letters used to qualify the results of the analysis:

- |   |   |
|---|---|
| U - The compound was analyzed for but not detected. The number is the detection limit for the compound. | K - The compound was analyzed for and detected, but at a concentration not reliably quantifiable. The number is the detection limit for the compound. |
| NDB - Quantitation is not possible due to the relative concentration of the compound in the blank.      | C - The result has been corrected for the presence of the compound in the blank.  |

Quality controls were analyzed with the sample as part of Aquatec's standard analytical procedures. The results of these are maintained on file at Aquatec.





**aquatec**

ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05401

TEL. 802/658-1074

## ANALYTICAL REPORT

Aquatec Lab No.: 57129

ETR No.: 7230

Sample Received On: 2 April 1986

Sample Identification: Atlantic Testing Laboratories, sample  
labeled N.W. site sawdust CD648-1,  
3/24/86

### Volatile Compounds not on the Hazardous Substances List

| <u>Scan No.*</u> | <u>Name</u>   | <u>Estimated Conc.**<br/>(ug/kg)</u> |
|------------------|---------------|--------------------------------------|
| 247              | pentane       | 30                                   |
| 358              | hexane        | 19                                   |
| 702              | a hydrocarbon | 70                                   |

\* Indicates relative location of chromatographic peak in a total of 750 scans in the chromatogram, at three seconds per peak.

\*\* Concentration estimated from ratio of Enhanced Reconstructed Ion Chromatogram (ERIC) of compound to ERIC of nearest internal standard, assuming a response factor of 1.



# aquatec

## ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05401  
TEL. 802/658-1074

### ANALYTICAL REPORT

Aquatec Lab No.: 57128

ETR No.: 7230

Sample Received On: 2 April 1986

Sample Identification: Atlantic Testing Laboratories, sample labeled N.E.  
site sawdust CD648-3, 3/24/86

#### Volatile Organic Compounds in ug/kg

|                           |        |                      |        |
|---------------------------|--------|----------------------|--------|
| benzene                   | 500 U  | methylene chloride   | NDB    |
| carbon tetrachloride      | 500 U  | chloromethane        | 1000 U |
| chlorobenzene             | 500 U  | bromomethane         | 1000 U |
| 1,2-dichloroethane        | 500 U  | bromoform            | 500 U  |
| 1,1,1-trichloroethane     | 1100   | bromodichloromethane | 500 U  |
| 1,1-dichloroethane        | 500 U  | dibromochloromethane | 500 U  |
| 1,1,2-trichloroethane     | 500 U  | tetrachloroethene    | 500K   |
| 1,1,2,2-tetrachloroethane | 500 U  | toluene              | 500 U  |
| chloroethane              | 1000 U | trichloroethene      | 500 U  |
| 2-chloroethyl vinyl ether | 1000 U | vinyl chloride       | 1000 U |
| chloroform                | 500 U  | acetone              | NDB    |
| 1,1-dichloroethene        | 500 U  | 2-butanone           | NDB    |
| 1,2-dichloroethene        | 500 U  | carbon disulfide     | 500 U  |
| 1,2-dichloropropane       | 500 U  | 2-hexanone           | 1000 U |
| trans-1,3-dichloropropene | 500 U  | 4-methyl-2-pentanone | 1000 U |
| cis-1,3-dichloropropene   | 500 U  | styrene              | 500 U  |
| ethylbenzene              | 500 U  | vinyl acetate        | 1000 U |
|                           |        | total xylenes        | 500 U  |

Sample was extracted into methanol and diluted 100 fold for analysis.

#### Key to the letters used to qualify the results of the analysis:

- |   |   |
|---|---|
| U - The compound was analyzed for but not detected. The number is the detection limit for the compound. | K - The compound was analyzed for and detected, but at a concentration not reliably quantifiable. The number is the detection limit for the compound. |
| NDB - Quantitation is not possible due to the relative concentration of the compound in the blank.      | C - The result has been corrected for the presence of the compound in the blank.  |

Quality controls were analyzed with the sample as part of Aquatec's standard analytical procedures. The results of these are maintained on file at Aquatec.



**aquatec**

ENVIRONMENTAL SERVICES

75 Green Mountain Drive, So. Burlington, VT 05401  
TEL 802/658-1074

## ANALYTICAL REPORT

Aquatec Lab No.: 57128

ETR No.: 7230

Sample Received On: 2 April 1986

Sample Identification: Atlantic Testing Laboratories, sample  
labeled N.E. site sawdust CD648-3,  
3/24/86

### Volatile Compounds not on the Hazardous Substances List

| <u>Scan No.*</u> | <u>Name</u>                              | <u>Estimated Conc.**<br/>(ug/kg)</u> |
|------------------|--|--------------------------------------|
| 514              | a hydrocarbon                            | 1500                                 |
| 536              | a C <sub>3</sub> substituted cyclohexane | 580                                  |
| 550              | a substituted cyclohexane                | 410                                  |
| 591              | a substituted cyclohexane                | 2700                                 |
| 610              | unknown                                  | 790                                  |
| 629              | an unsaturated hydrocarbon               | 1800                                 |
| 640              | unknown                                  | 1200                                 |
| 667              | unknown                                  | 710                                  |
| 705              | a C <sub>3</sub> substituted benzene     | 2000                                 |
| 729              | a C <sub>3</sub> substituted benzene     | 2300                                 |

\* Indicates relative location of chromatographic peak in a total of 800 scans in the chromatogram, at three seconds per peak.

\*\* Concentration estimated from ratio of Enhanced Reconstructed Ion Chromatogram (ERIC) of compound to ERIC of nearest internal standard, assuming a response factor of 1.

To: ATLANTIC TESTING LABS-LIMITED  
BOX 28  
CANTON, NY 13617

Date: Jul 15 1986

Attention: JOHN CARR

\*\*\*\*\*  
SAMPLE #2101

LABORATORY ANALYSIS REPORT

\*\*\*\*\*  
SAMPLE SUMMARY

CLIENT : ATLANTIC TESTING LABS-LIMITED

DATE RECEIVED : 03/27/86

JOB # : 405.146.01

DATE COLLECTED : NA

LOCATION : SOILS 0-8 CD64882

TIME COLLECTED : NA

METHOD :NA

---

| PARAMETER                      | RESULTS | UNITS |
|--------------------------------|---------|-------|
| METHYCYCLOHEXANE               | PENDING |       |
| OCTAHYDROPENTALENE             | PENDING |       |
| ACETONE                        | PENDING |       |
| 2-BUTANONE                     | PENDING |       |
| TOTAL XYLENES                  | 150.    | ug/g  |
| METHYLENE CHLORIDE             | <0.4    | ug/g  |
| 1,1-DICHLOROETHYLENE           | PENDING |       |
| 1,1-DICHLOROETHANE             | 5.6     | ug/g  |
| ETHYLBENZENE                   | <10.    | ug/g  |
| 1,1,1-TRICHLOROETHANE          | 1800.   | ug/g  |
| TETRACHLOROETHYLENE            | <0.4    | ug/g  |
| a - C <sub>3</sub> Cyclohexane | Pending |       |
| a - C <sub>3</sub> Benzene     | Pending |       |
| a - Nonane                     | Pending |       |

Note:  
Analysis performed by outside laboratory.

CS warrants that any sampling and analyses conducted as part of this report are performed in accordance with the analytical industries recognized methodologies and professional standards. CS will not assume liability for any damages resulting from deficient work other than reperformance or cost of said work and will not accept any liability as a result of data interpretation by the client.

APPROVED BY: *Conrad T. Schubert* DATE: JUL 15 1986

To: ATLANTIC TESTING LABS-LIMITED  
BOX 28  
CANTON, NY 13617

Date: Jul 15 1986

Attention: JOHN CARR

\*\*\*\*\*  
SAMPLE #2102  
LABORATORY ANALYSIS REPORT  
\*\*\*\*\*

SAMPLE SUMMARY

CLIENT : ATLANTIC TESTING LABS-LIMITED      DATE RECEIVED : 03/27/86  
JOB # : 405.146.01      DATE COLLECTED : NA  
LOCATION : NORTHWEST SAWDUST      TIME COLLECTED : NA  
METHOD : NA

---

| PARAMETER                      | RESULTS | UNITS |
|--------------------------------|---------|-------|
| METHYCYCLOHEXANE               | PENDING |       |
| OCTAHYDROPENTALENE             | PENDING |       |
| ACETONE                        | PENDING |       |
| 2-BUTANONE                     | PENDING |       |
| TOTAL XYLENES                  | <0.6    | ug/g  |
| METHYLENE CHLORIDE             | <0.2    | ug/g  |
| 1,1-DICHLOROETHYLENE           | PENDING |       |
| 1,1-DICHLOROETHANE             | <0.2    | ug/g  |
| ETHYLBENZENE                   | <0.2    | ug/g  |
| 1,1,1-TRICHLOROETHANE          | PENDING |       |
| TETRACHLOROETHYLENE            | <0.2    | ug/g  |
| a - C <sub>3</sub> Cyclohexane | Pending |       |
| a - C <sub>3</sub> Benzene     | Pending |       |
| a - Nonane                     | Pending |       |

Note:

Analysis performed by outside laboratory.

CS warrants that any sampling and analyses conducted as part of this report are performed in accordance with the analytical industries recognized methodologies and professional standards. CS will not assume liability for any damages resulting from deficient work other than reperformance or cost of said work and will not accept any liability as a result of data interpretation by the client.

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To: ATLANTIC TESTING LABS-LIMITED  
BOX 28  
CANTON, NY 13617

Date: Jul 15 1986

Attention: JOHN CARR

\*\*\*\*\*  
SAMPLE #2103  
LABORATORY ANALYSIS REPORT  
\*\*\*\*\*

SAMPLE SUMMARY

|          |                                 |                |            |
|----------|---------------------------------|----------------|------------|
| CLIENT   | : ATLANTIC TESTING LABS-LIMITED | DATE RECEIVED  | : 03/27/86 |
| JOB #    | : 405.146.01                    | DATE COLLECTED | : NA       |
| LOCATION | : N.E. SITE SAND                | TIME COLLECTED | : NA       |
| METHOD   | : NA                            |                |            |

| PARAMETER                      | RESULTS | UNITS |
|--------------------------------|---------|-------|
| METHYCYCLOHEXANE               | PENDING |       |
| OCTAHYDROPENTALENE             | PENDING |       |
| ACETONE                        | PENDING |       |
| 2-BUTANONE                     | PENDING |       |
| TOTAL XYLENES                  | 2.3     | ug/g  |
| METHYLENE CHLORIDE             | <0.2    | ug/g  |
| 1,1-DICHLOROETHYLENE           | PENDING |       |
| 1,1-DICHLOROETHANE             | <0.2    | ug/g  |
| ETHYLBENZENE                   | <0.4    | ug/g  |
| 1,1,1-TRICHLOROETHANE          | 1.5     | ug/g  |
| TETRACHLOROETHYLENE            | <0.2    | ug/g  |
| a - C <sub>3</sub> Cyclohexane | Pending |       |
| a - C <sub>3</sub> Benzene     | Pending |       |
| a - Nonane                     | Pending |       |

Note:  
Analysis performed by outside laboratory.

CS warrants that any sampling and analyses conducted as part of this report are performed in accordance with the analytical industries recognized methodologies and professional standards. CS will not assume liability for any damages resulting from deficient work other than reperformance or cost of said work and will not accept any liability as a result of data interpretation by the client.

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Polelife

August 4, 1986

Mr. John Carr  
Atlantic Testing Labs - Limited  
Box 28  
Canton, New York 13617

Re: CS sample #'s 2101-2103

File: 405.146.01

Dear Mr. Carr:

Enclosed please find laboratory analysis report for your samples:  
1) Soils 0-8 CD64882/CS sample #2101, 2) Northwest Sawdust/CS sample #2102,  
3) Northeast Site Sand/CS sample #2103.

As we discussed, these samples were subcontracted to Syracuse Research Corporation for analysis since our GC/MS did not have the library capabilities needed to analyze some of the organic compounds. If you have any technical questions concerning the analysis please contact our organic chemist, Tim Brown. I hope these results will satisfy your needs.

Very truly yours,

CS ENVIRONMENTAL LABORATORY, INC.

*Conrad Teufel Jr.*

Conrad Teufel, Jr.  
Laboratory Manager

CT:plh  
Enclosure

TO: Atlantic Testing Labs, Limited  
P.O. Box 28  
Canton, New York 13617

RE: Organic Analysis CS Sample # 2101-2103

FILE: 405.146.01

ATTENTION: Mr. John Carr

DATE: September 11, 1986

WE ARE SENDING YOU   X   HEREWITH            UNDER SEPARATE COVER VIA

Copies of request for analysis, and cover sheet for SRC analysis report,  
of soil samples.

THE ABOVE ARE FOR   X   INFORMATION            SAMPLING            ANALYSIS

           RETURN            REVISION            APPROVAL            OTHER

REMARKS: As requested. If you have any questions, do not hesitate to call.

IF ENCLOSED ARE NOT AS NOTED, PLEASE NOTIFY US AT ONCE.

**CS ENVIRONMENTAL LABORATORY, INC.**

*Conrad Teufel, Jr.*

Conrad Teufel, Jr.  
Laboratory Manager

CT:plh  
Enclosure

TRANSMITTAL





COMPREHENSIVE  
ANALYSIS REPORT

Prepared for: CS Environmental Laboratory  
5854 Butternut Drive  
East Syracuse, NY 13057  
Attn: Mr. Conrad Teufel

Prepared by: Life and Environmental Sciences Laboratories  
Dr. Alison Carter, Manager  
Syracuse Research Corporation  
Merrill Lane  
Syracuse, New York 13210-4080  
SRC Project Number L1371-50  
Customer Purchase Order Number - B5-45015

Date of Report: July 11, 1986

Analysis Performed by:

Craig R. Turner  
Craig R. Turner  
Research Associate

Catherine M. Plumb  
Catherine M. Plumb  
Chemist

Report Approved by:

Ronald Rossi  
Quality Assurance Unit

Work Performed: Three samples submitted for partial volatile scan.  
(SRC ID Nos. 86-0868 to 86-0870).

The test results and procedures utilized and laboratory interpretations of the data obtained by Syracuse Research Corporation as contained in this report are believed by Syracuse Research Corporation to be accurate and reliable. In accepting this report, the client agrees that the full extent of any and all liability will be limited to an amount equal to the fee charged to the client.

The information contained herein is for the exclusive use of the client to whom it is addressed and its communication to any others, or the use of the name of Syracuse Research Corporation, must receive prior written approval. The information and the name of the Syracuse Research Corporation or its seal or insignia are not to be used under any circumstances in advertising to the general public.

| SRC ID No.            | 86-0868* | 86-0869* | 86-0870* |
|-----------------------|----------|----------|----------|
| CS ID No.             | 2101     | 2102     | 2103     |
|                       | (µg/g)   | (µg/g)   | (µg/g)   |
| Methylene Chloride    | <0.4     | <0.2     | <0.2     |
| 1,1-Dichloroethene    | 0.4      | <0.2     | <0.2     |
| 1,1-Dichloroethane    | 5.6      | <0.2     | <0.2     |
| 1,1,1-Trichloroethane | 1800     | <0.2     | 1.5      |
| Tetrachloroethylene   | <0.4     | <0.2     | <0.2     |
| Toluene               | 15       | <0.2     | <0.4     |
| Ethylbenzene          | <10      | <0.2     | <0.4     |
| Total Xylenes         | 150      | <0.6     | 2.3      |

\*As received

Tentative identification of five major peaks in each run through GC/MS library searches. Approximation of concentration assuming a response factor of 1.0.

| Identification     | Compound                    | Result   |
|--------------------|-----------------------------|----------|
| SRC ID No. 86-0868 | Octahydro-2-methylpentalene | 300 µg/g |
| CS ID No. 2101     | Propylcyclohexane           | 430 µg/g |
|                    | Trimethylbenzene            | 450 µg/g |
|                    | Methylpropylbenzene         | 450 µg/g |
|                    | Ethyl dimethylbenzene       | 450 µg/g |
| SRC ID No. 86-0869 | Nonane                      | 56 µg/g  |
| CS ID No. 2102     | Propylcyclohexane           | 45 µg/g  |
|                    | Decane                      | 160 µg/g |
|                    | Decahydronaphthalene        | 17 µg/g  |
|                    | Methylpropyl pentanol       | 88 µg/g  |
| SRC ID No. 86-0870 | 1-Methylethylbenzene        | 89 µg/g  |
| CS ID No. 2103     | Methylethylbenzene          | 87 µg/g  |
|                    | Methylethylbenzene          | 270 µg/g |
|                    | Methylethylbenzene          | 80 µg/g  |
|                    | Ethyl dimethylbenzene       | 41 µg/g  |