



STATE LABORATORY OF HYGIENE  
University of Wisconsin Center for Health Sciences

AREA CODE 608  
TEL. NO. 262-1293

WILLIAM D. STOVALL BUILDING  
465 HENRY MALL  
MADISON, WISCONSIN  
53706

MEMORANDUM SEP 18 1984

DATE: September 14, 1984

TO: Theresa Evanson

FROM: David Degenhardt *DD*

State Laboratory of Hygiene sample 535 from the Freeman Chemical Corporation, field number PZ-5, may contain the compound(s) listed below according to tentative computer identification from gas chromatography/mass spectroscopy analysis. The quantity of contaminant(s) could not be determined, nor has the presence of the compound(s) been confirmed by alternative analysis techniques.

vinyl chloride  
dichlorofluoromethane  
trichlorofluoromethane  
acetone  
methyl ethyl ketone  
hydrocarbons

A tentative computer identification from the gas chromatography/mass spectroscopy analysis was also made for 1,1-dichloroethane, 1,1-dichloroethylene, 1,1,1-trichloroethane, and trichloroethylene. The high concentration of 1,2-dichloroethylene in this sample made it impossible to accurately quantitate these chemicals.

If you have any questions, contact me at 608/262-2797.

DD/jm

Bill To:  Hazardous Waste  Non-Hazardous Waste  Spill Program

Facility Name Freeman Chemical Corporation Lic No. 0 Field No. PZ-5

County Ozaukee County Code 46 DNR Point ID No. \_\_\_\_\_

Collection Date: 07/31/84 Time (24-Hour Clock): \_\_\_\_\_  
M M D D Y Y H H M M

Sample Location near tank farm

Sample Description \_\_\_\_\_

Send Report To: Meresa A Evanson - SW/3  
 Address P.O. Box 7921  
 City, State, Zip Code Madison WI 53707

- Monitoring Well (W)
  - Surface Water (W)
  - Private Well (W)
  - Wastewater (E)
  - Lysimeter (W)
  - Waste (B)
  - Oil (O)
  - Soil (S)
  - Leachate (L)
  - Other \_\_\_\_\_
- Enforcement  Yes  No
- Split Sample  Yes  No

Collected by Perry Evanson  
 Telephone (609) 266-0941

Received by \_\_\_\_\_

Date Received AUG 1 1984

Account Number \_\_\_\_\_  
For Lab Use Only

Sample Number 84-5 535

Lab Use	Chemical Name	Concentration	Lab Use	Chemical Name	Concentration
(425)	Trichloroethylene	see attached memo			
(171), 2	Dichloroethylene	5,300 ug/l			
(025)	Benzene	7,200 ug/l			
(233)	Ethylbenzene	25,000 ug/l			
(411)	Toluene	23,000 ug/l			
(393)	Styrene	<2.0 ug/l			
(437)	Total Xylene	48,000 ug/l			
(169)	1,1-dichloroethylene	see attached memo			

Comments

GC/MS Scan - 10 major peaks

Expected VOC concentrations - very high (>10,000 ppb.)



STATE LABORATORY OF HYGIENE

University of Wisconsin Center for Health Sciences

AREA CODE 608  
TEL. NO. 262-1293

WILLIAM D. STOVALL BUILDING  
465 HENRY MALL  
MADISON, WISCONSIN  
53706

**BRRTS**  
**Duplicate**

SEP 18 1984

MEMORANDUM

DATE: September 14, 1984

TO: Theresa Evanson

FROM: David Degenhardt *DD*

State Laboratory of Hygiene sample 532 from the Freeman Chemical Corporation, field number PZ-2, may contain the compound(s) listed below according to tentative computer identification from gas chromatography/mass spectroscopy analysis. The quantity of contaminant(s) could not be determined, nor has the presence of the compound(s) been confirmed by alternative analysis techniques.

vinyl chloride  
acetone  
hydrocarbons

If you have any questions, contact me at 608/262-2797.

DD/jm



SEP 18 1984

Bill To:  Hazardous Waste  Non-Hazardous Waste  Spill Program

Facility Name Freeman Chemical Corporation

Lic No. 0 Field No. PZ-1

County Waupesa

County Code 46 DNR Point ID No. \_\_\_\_\_

Collection Date: 07/31/84  
M M D D Y Y

Time (24-Hour Clock): \_\_\_\_\_  
H H / M M

Sample Location Freeman Chemical property

BRRTS Duplicate

Sample Description Monitoring well - well water

Send Report To:

Name	<u>Theresa A. Evanson - SW/3</u>
Address	<u>P.O. Box 7921</u>
City, State, Zip Code	<u>Madison WI 53707</u>

- Monitoring Well (W)
- Surface Water (W)
- Private Well (W)
- Wastewater (E)
- Lysimeter (W)
- Waste (B)
- Oil (O)
- Soil (S)
- Leachate (L)
- Other \_\_\_\_\_

Enforcement  Yes  No  
Split Sample  Yes  No

Collected by Perry Eranson

Received by \_\_\_\_\_

Telephone (608) 266-0941

Date Received AUG 1 1984

Account Number 100020  
For Lab Use Only

Sample Number 84-5 530

Lab Use	Chemical Name	Concentration	Lab Use	Chemical Name	Concentration
425	Trichloroethylene	< 1.0 ug/l			
171 <sup>13</sup>	Dichloroethylene	< 1.0 ug/l			
025	Benzene	< 1.0 ug/l			
233	Ethylbenzene	< 1.0 ug/l			
411	Toluene	< 1.0 ug/l			
393	Syrene	< 2.0 ug/l			
437	Total Xylenes	< 2.0 ug/l			
169	1,1 dichloroethylene	< 1.0 ug/l			

Comments

GC/MS scan - ID major peaks

Expected vac concentration - less than detection limits



Bill To:  Hazardous Waste  Non-Hazardous Waste  Spill Program

Facility Name Freeman Chemical Corporation Lic No. 0 Field No. PZ-2

County Dane County Code 46 DNR Point ID No. \_\_\_\_\_

Collection Date: 07/31/84 Time (24-Hour Clock): \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

Sample Location near truck scale SEP 18 1984

Sample Description \_\_\_\_\_

Send Report To: Name Theresa A. Evanson - SW/3  
Address P.O. Box 7921  
City, State, Zip Code Madison, WI 53707

- Monitoring Well (W)
  - Surface Water (W)
  - Private Well (W)
  - Wastewater (E)
  - Lysimeter (W)
  - Waste (B)
  - Oil (O)
  - Soil (S)
  - Leachate (L)
  - Other \_\_\_\_\_
- Enforcement  Yes  No
- Split Sample  Yes  No

Collected by Terry Evanson  
Telephone (608) 266-0941

Received by \_\_\_\_\_  
Date Received AUG 1 1984

Account Number \_\_\_\_\_ For Lab Use Only

Sample Number 84-5 532

Lab Use	Chemical Name	Concentration	Lab Use	Chemical Name	Concentration
(425)	Trichloroethylene	3.5 ug/l			
(171)	1,2 Dichloroethylene	4.8 ug/l			
(025)	Benzene	120 ug/l			
(233)	Ethylbenzene	600 ug/l			
(411)	Toluene	3,700 ug/l			
(393)	Styrene	< 2.0 ug/l			
(431)	Total Xylenes	11,000 ug/l			
(399)	tetrachloroethylene	5.1 ug/l			
(167)	1,2 dichloroethane	1.8 ug/l			
(421)	1,1,1 trichloroethane	1.3 ug/l			
(169)	1,1 dichloroethylene	< 60 ug/l			

Comments  
GC/MS scan - ID major peaks  
Expected VOC concentration -  
Moderate to high (100-1000 ug/l)



STATE LABORATORY OF HYGIENE

University of Wisconsin Center for Health Sciences

AREA CODE 608  
TEL. NO. 262-1293

WILLIAM D. STOVALL BUILDING  
465 HENRY MALL  
MADISON, WISCONSIN  
53706

**BRTS**  
**Duplicate**

SEP 18 1984

MEMORANDUM

DATE: September 14, 1984

TO: Theresa Evanson

FROM: David Degenhardt *DD*

State Laboratory of Hygiene sample 534 from the Freeman Chemical Corporation, field number PZ-3, may contain the compound(s) listed below according to tentative computer identification from gas chromatography/mass spectroscopy analysis. The quantity of contaminant(s) could not be determined, nor has the presence of the compound(s) been confirmed by alternative analysis techniques.

hydrocarbons

If you have any questions, contact me at 608/262-2797.

DD/jm



Bill To:  Hazardous Waste  Non-Hazardous Waste  Spill Program

SEP 18 1984

Facility Name Freeman Chemical Company

Lic No. 0 Field No. PZ-3

County Dane

County Code 46 DNR Point ID No. \_\_\_\_\_

Collection Date: 07/31/84

Time (24-Hour Clock): \_\_\_\_\_

Sample Location near incinerator truck scale

Sample Description \_\_\_\_\_

Send Report To: Name Theresa A. Evanson - SW/3  
Address P.O. Box 7921  
City, State, Zip Code Madison WI 53707

- Monitoring Well (W)
- Surface Water (W)
- Private Well (W)
- Wastewater (E)
- Lysimeter (W)
- Waste (B)
- Oil (O)
- Soil (S)
- Leachate (L)
- Other \_\_\_\_\_

Collected by Terry Evanson  
Telephone (608) 266-0941

Enforcement  Yes  No  
Split Sample  Yes  No

Account Number \_\_\_\_\_ For Lab Use Only

Received by \_\_\_\_\_  
Date Received AUG 1 1984

Sample Number 84-5 534

Lab Use	Chemical Name	Concentration	Lab Use	Chemical Name	Concentration
(425)	Trichloroethylene	3.3 ug/l			
(177)	1,2 Dichloroethylene	5.3 ug/l			
(025)	Benzene	140 ug/l			
(233)	Ethylbenzene	2800 ug/l			
(411)	Toluene	640 ug/l			
(393)	Styrene	< 2.0 ug/l			
(437)	Total Xylenes	25,000 ug/l			
(421)	1,1,1 Trichloroethane	4.5 ug/l			
(399)	Tetrachloroethylene	20 ug/l			
(169)	1,1 dichloroethylene	< 1.0 ug/l			

Comments  
GC/MS SCAN - ID major peaks  
Expected VOC concentration -  
very high (> 10,000 ppb)



# STATE LABORATORY OF HYGIENE

University of Wisconsin Center for Health Sciences

AREA CODE 608  
TEL. NO. 262-1293

WILLIAM D. STOVALL BUILDING  
465 HENRY MALL  
MADISON, WISCONSIN  
53706

## MEMORANDUM

DATE: September 14, 1984

SEP 18 1984

TO: Theresa Evanson

FROM: David Degenhardt *DD*

State Laboratory of Hygiene sample 536 from the Freeman Chemical Corporation, field, number PZ-6, may contain the compound(s) listed below according to tentative computer identification from gas chromatography/mass spectroscopy analysis. The quantity of contaminant(s) could not be determined, nor has the presence of the compound(s) been confirmed by alternative analysis techniques.

vinyl chloride  
acetone  
methyl ethyl ketone  
hydrocarbons

A tentative computer identification from the gas chromatography/mass spectroscopy analysis was also made for 1,2-dichloroethane, and trichloroethylene. The high concentration of 1,2-dichloroethylene in this sample made it impossible to accurately quantitate these chemicals.

If you have any questions, contact me at 608/262-2797.

DD/jm



SEP 18 1984

Bill To:  Hazardous Waste  Non-Hazardous Waste  Spill Program

Facility Name Freeman Chemical Corporation Lic No. 0 Field No. PZ-6

County Dane County Code 46 DNR Point ID No. \_\_\_\_\_

Collection Date: 07/31/84 Time (24-Hour Clock): \_\_\_\_\_

Sample Location Near old air curtain destructor

Sample Description \_\_\_\_\_

Send Report To: Name Theresa A. Evanson - SW/3  
Address PO Box 7921  
City, State, Zip Code Madison, WI 53707

- Monitoring Well (W)
- Surface Water (W)
- Private Well (W)
- Wastewater (E)
- Lysimeter (W)
- Waste (B)
- Oil (O)
- Soil (S)
- Leachate (L)
- Other \_\_\_\_\_

Enforcement  Yes  No Split Sample  Yes  No

Collected by Perry Evanson  
Telephone (608) 266-0941

Received by \_\_\_\_\_

Date Received AUG 1 1984

Account Number \_\_\_\_\_ For Lab Use Only

Sample Number 84-5 536

Lab Use	Chemical Name	Concentration	Lab Use	Chemical Name	Concentration
(426)	Trichloroethylene	see attached memo			
(171)	1,2 Dichloroethylene	560 ug/l			
(225)	Benzene	100 ug/l			
(233)	Ethylbenzene	500 ug/l			
(411)	Toluene	840 ug/l			
(393)	Styrene	< 200 ug/l			
(437)	Total Xylene	2700 ug/l			
(169)	1,1-dichloroethylene	< 1.0 ug/l			

Comments  
GC/MS Scan - ID major peaks  
Expected VOC concentration - high to very high (1000-10,000 ppb)



# STATE LABORATORY OF HYGIENE

University of Wisconsin Center for Health Sciences

AREA CODE 608  
TEL. NO. 262-1293

WILLIAM D. STOVALL BUILDING  
465 HENRY MALL  
MADISON, WISCONSIN  
53706

## MEMORANDUM

DATE: September 14, 1984

SEP 18 1984

TO: Theresa Evanson

FROM: David Degenhardt *DD*

State Laboratory of Hygiene sample 537 from the Freeman Chemical Corporation, field number PZ-6 (D), may contain the compound(s) listed below according to tentative computer identification from gas chromatography/mass spectroscopy analysis. The quantity of contaminant(s) could not be determined, nor has the presence of the compound(s) been confirmed by alternative analysis techniques.

vinyl chloride  
acetone  
methyl ethyl ketone  
hydrocarbons

A tentative computer identification from the gas chromatography/mass spectroscopy analysis was also made for 1,2-dichloroethane and trichloroethylene. The high concentration of 1,2-dichloroethylene in this sample made it impossible to accurately quantitate these chemicals.

If you have any questions, contact me at 608/262-2797.

DD/jm



Bill To:  Hazardous Waste  Non-Hazardous Waste  Spill Program

Facility Name Free man Chemical Corporation Lic No. 0 Field No. PZ-6 (D)  
 County Ozaukee County Code 46 DNR Point ID No. \_\_\_\_\_  
 Collection Date: 07/31/84 Time (24-Hour Clock): \_\_\_\_\_  
 Sample Location near old air curtain destructor SEP 18 1984  
 Sample Description \_\_\_\_\_

Send Report To: Name Theresa A EVANSON - SW/3  
 Address PO Box 7921  
 City, State, Zip Code Madison WI 53707  
 Collected by Larry EVANSON  
 Telephone (608) 266-0941  
 Account Number \_\_\_\_\_ For Lab Use Only \_\_\_\_\_

Monitoring Well (W)  Waste (B)  
 Surface Water (W)  Oil (O)  
 Private Well (W)  Soil (S)  
 Wastewater (E)  Leachate (L)  
 Lysimeter (W)  Other \_\_\_\_\_  
 Enforcement  Yes  No Split Sample  Yes  No  
 Received by \_\_\_\_\_  
 Date Received AUG 1 1984  
 Sample Number 84-5 537

Lab Use	Chemical Name	Concentration	Lab Use	Chemical Name	Concentration
(425)	Trichloroethylene	see attached memo			
(17) 2	Dichloroethylene	400 ug/L			
(025)	Benzene	100 ug/L			
(233)	Ethyl benzene	540 ug/L			
(411)	Toluene	910 ug/L			
(393)	Styrene	< 2.0 ug/L			
(437)	o-tol Xylene	3,000 ug/L			
(169)	1,1 dichloroethylene	41.0 ug/L			

Comments  
GC/MS Scan - ID major peaks  
Expected VOC Concentration -  
high to very high (1000-10000 ppb)



# STATE LABORATORY OF HYGIENE

University of Wisconsin Center for Health Sciences

AREA CODE 608  
TEL. NO. 262-1293

WILLIAM D. STOVALL BUILDING  
465 HENRY MALL  
MADISON, WISCONSIN  
53706

SEP 13 1984

## MEMORANDUM

DATE: September 14, 1984

TO: Theresa Evanson

FROM: David Degenhardt

State Laboratory of Hygiene sample 538 from the Freeman Chemical Corporation, field number PZ-9, may contain the compound(s) listed below according to tentative computer identification from gas chromatography/mass spectroscopy analysis. The quantity of contaminant(s) could not be determined, nor has the presence of the compound(s) been confirmed by alternative analysis techniques.

hydrocarbons

If you have any questions, contact me at 608/262-2797.

DD/jm



Bill To:  Hazardous Waste  Non-Hazardous Waste  Spill Program

Facility Name Freeman Chemical Corporation

Lic No. 0 Field No. PZ-9

County Waukesha

County Code 46 DNR Point ID No. \_\_\_\_\_

Collection Date: 07/31/84  
M M D D Y Y

Time (24-Hour Clock): \_\_\_\_\_  
H H / M M

Sample Location \_\_\_\_\_

SEP 18 1984

Sample Description \_\_\_\_\_

Send Report To:

Name	<u>Theresa A. Evanson - SW/3</u>
Address	<u>P O Box 7921</u>
City, State, Zip Code	<u>Madison, WI 53707</u>

- Monitoring Well (W)
  - Surface Water (W)
  - Private Well (W)
  - Wastewater (E)
  - Lysimeter (W)
  - Waste (B)
  - Oil (O)
  - Soil (S)
  - Leachate (L)
  - Other \_\_\_\_\_
- Enforcement  
 Yes  No
- Split Sample  
 Yes  No

Collected by Perry Evanson  
Telephone (608) 266-0941

Received by \_\_\_\_\_

Date Received AUG 1 1984

Account Number \_\_\_\_\_  
For Lab Use Only

Sample Number 84-5 538

Lab Use	Chemical Name	Concentration	Lab Use	Chemical Name	Concentration
(425)	Trichloroethylene	< 1.0 ug/L			
(17)	2 Dichloroethylene	< 1.0 ug/L			
(025)	Benzene	< 1.0 ug/L			
(233)	Ethylbenzene	1.2 ug/L			
(411)	Toluene	1.1 ug/L			
(393)	Styrene	< 2.0 ug/L			
(437)	Total Xylene	< 2.0 ug/L			
(169)	1,1-dichloroethylene	< 1.0 ug/L			

Comments

GC/MS Scan-ID major peaks

Expected VOC concentration - below detection limits



# STATE LABORATORY OF HYGIENE

University of Wisconsin Center for Health Sciences

AREA CODE 608  
TEL. NO. 262-1293

WILLIAM D. STOVALL BUILDING  
465 HENRY MALL  
MADISON, WISCONSIN  
53706

MEMORANDUM

SEP 18 1984

DATE: September 14, 1984

TO: Theresa Evanson

FROM: David Degenhardt *DD*

State Laboratory of Hygiene sample 539 from the Freeman Chemical Corporation, field number PZ-14, may contain the compound(s) listed below according to tentative computer identification from gas chromatography/mass spectroscopy analysis. The quantity of contaminant(s) could not be determined, nor has the presence of the compound(s) been confirmed by alternative analysis techniques.

dichlorofluoromethane  
hydrocarbons

If you have any questions, contact me at 608/262-2797.

DD/jm



Bill To:  Hazardous Waste  Non-Hazardous Waste  Spill Program

Facility Name Freeman Chemical Corporation

Lic No. 0 Field No. PZ-14

County DeKalb

County Code 46 DNR Point ID No. \_\_\_\_\_

Collection Date: 07/31/84  
M M D D Y Y

Time (24-Hour Clock): \_\_\_\_\_  
H H / M M

SEP 18 1984

Sample Location \_\_\_\_\_

Sample Description \_\_\_\_\_

Send Report To:

Name	<u>Theresa A. Evanson - SW/3</u>
Address	<u>PO Box 7921</u>
City, State, Zip Code	<u>Madison, WI 53707</u>

- Monitoring Well (W)
- Surface Water (W)
- Private Well (W)
- Wastewater (E)
- Lysimeter (W)
- Waste (B)
- Oil (O)
- Soil (S)
- Leachate (L)
- Other \_\_\_\_\_

Enforcement  Yes  No  
Split Sample  Yes  No

Collected by Terry Evanson

Received by AUG 1 1984

Telephone (608) 266-0941

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

Account Number \_\_\_\_\_  
For Lab Use Only

Sample Number 84-5 539

Lab Use	Chemical Name	Concentration	Lab Use	Chemical Name	Concentration
(425)	1. Dichloroethylene	< 1.0 ug/l			
(177)	2. Dichloroethylene	1.3 ug/l			
(025)	Benzene	< 1.0 ug/l			
(233)	Ethylbenzene	< 1.0 ug/l			
(411)	Toluene	1.8 ug/l			
(393)	Styrene	< 2.0 ug/l			
(437)	Total Xylene	4.9 ug/l			
(169)	1,1-dichloroethylene	< 1.0 ug/l			

Comments  
GC/MS Scan - 10 Major Peaks  
Expected VOC concentration -  
high to very high (1000-10,000 ppb)



Bill To:  Hazardous Waste  Non-Hazardous Waste  Spill Program

Facility Name Freeman Chemical Corporation Lic No. 0 Field No. PW-3

County Franklin County Code 46 DNR Point ID No. \_\_\_\_\_

Collection Date: 07/31/84 Time (24-Hour Clock):        /        /        /        SEP 18 1984

Sample Location private well northeast of Freeman; not used for drinking

Sample Description \_\_\_\_\_

Send Report To:

Name	<u>Theresa A. Evanson - SW/3</u>
Address	<u>PO Box 7921</u>
City, State, Zip Code	<u>Madison, WI 53707</u>

- Monitoring Well (W)
  - Surface Water (W)
  - Private Well (W)
  - Wastewater (E)
  - Lysimeter (W)
  - Waste (B)
  - Oil (O)
  - Soil (S)
  - Leachate (L)
  - Other \_\_\_\_\_
- Enforcement  Yes  No
- Split Sample  Yes  No

Collected by Perry Evanson  
Telephone (608) 266-0941

Received by \_\_\_\_\_  
Date Received AUG 1 1984

Account Number \_\_\_\_\_  
For Lab Use Only

Sample Number 84-5 540

Lab Use	Chemical Name	Concentration	Lab Use	Chemical Name	Concentration
(425)	Trichloroethylene	< 1.0 ug/l			
(177)	1,2 Dichloroethylene	< 1.0 ug/l			
(025)	Benzene	< 1.0 ug/l			
(233)	Ethylbenzene	< 1.0 ug/l			
(411)	Toluene	< 1.0 ug/l			
(323)	Styrene	< 2.0 ug/l			
(437)	Total Xylene	< 2.0 ug/l			
(168)	1,1 dichloroethylene	< 1.0 ug/l			

Comments

GC/MS Scan - ID Major Peaks

Expected VOC Concentration -  
Low to moderate (1-100 ppb)





# STATE LABORATORY OF HYGIENE

University of Wisconsin Center for Health Sciences

AREA CODE 608  
TEL. NO. 262-1293

WILLIAM D. STOVALL BUILDING  
465 HENRY MALL  
MADISON, WISCONSIN  
53706

MEMORANDUM

SEP 18 1984

DATE: September 14, 1984

TO: Theresa Evanson

FROM: David Degenhardt *DD*

State Laboratory of Hygiene sample 531 from the Freeman Chemical Corporation, field number PW-6, may contain the compound(s) listed below according to tentative computer identification from gas chromatography/mass spectroscopy analysis. The quantity of contaminant(s) could not be determined, nor has the presence of the compound(s) been confirmed by alternative analysis techniques.

vinyl chloride

If you have any questions, contact me at 608/262-2797.

DD/jm

SEP 18 1984

Bill To:  Hazardous Waste  Non-Hazardous Waste  Spill Program

Facility Name Freeman Chemical Corporation Lic No. 0 Field No. PW-6

County Dane County Code 46 DNR Point ID No. \_\_\_\_\_

Collection Date: 07/31/84 Time (24-Hour Clock): \_\_\_\_\_

Sample Location private well east of Freeman; not used for drinking

Sample Description \_\_\_\_\_

Send Report To: Name Theresa A. Evanson - SW/3  
Address P.O. Box 7921  
City, State, Zip Code Madison, WI 53707

- Monitoring Well (W)
- Surface Water (W)
- Private Well (W)
- Wastewater (E)
- Lysimeter (W)
- Waste (B)
- Oil (O)
- Soil (S)
- Leachate (L)
- Other \_\_\_\_\_

Enforcement  Yes  No Split Sample  Yes  No

Collected by Perry Evanson  
Telephone (608) 266-0941

Received by \_\_\_\_\_

Date Received AUG 1 1984

Account Number \_\_\_\_\_ For Lab Use Only

Sample Number 84-5 531

Lab Use	Chemical Name	Concentration	Lab Use	Chemical Name	Concentration
(425)	Trichloroethylene	< 1.0 µg/l			
(171)	1,2 Dichloroethylene	7.9 µg/l			
(025)	Benzene	< 1.0 µg/l			
(233)	Ethylbenzene	< 1.0 µg/l			
(411)	Toluene	< 1.0 µg/l			
(323)	Styrene	< 2.0 µg/l			
(437)	Total Xylene	< 2.0 µg/l			
(167)	1,2 dichloroethane	2.0 µg/l			
(169)	1,1 dichloroethylene	< 1.0 µg/l			

Comments

GC/MS Scan - ID major peaks

Expected VOC concentration - below detection limits





**STATE LABORATORY OF HYGIENE**  
University of Wisconsin Center for Health Sciences

AREA CODE 608  
TEL. NO. 262-1293

WILLIAM D. STOVALL BUILDING  
465 HENRY MALL  
MADISON, WISCONSIN  
53706

SEP 18 1984

MEMORANDUM

DATE: September 14, 1984  
TO: Theresa Evanson  
FROM: David Degenhardt *DD*

State Laboratory of Hygiene sample 541 from the Freeman Chemical Corporation, field number PW-8, may contain the compound(s) listed below according to tentative computer identification from gas chromatography/mass spectroscopy analysis. The quantity of contaminant(s) could not be determined, nor has the presence of the compound(s) been confirmed by alternative analysis techniques.

hydrocarbons

If you have any questions, contact me at 608/262-2797.

DD/jm

Bill To:  Hazardous Waste  Non-Hazardous Waste  Spill Program

Facility Name Freeman Chemical Corporation Lic No. 0 Field No. PW-8

County Dauke County Code 46 DNR Point ID No. \_\_\_\_\_

Collection Date: 07131184 Time (24-Hour Clock):        /        /        /       

Sample Location Laubenstein Well, west of Freeman; NOT used

Sample Description \_\_\_\_\_

Send Report To:

Name	<u>Theresa A. Evanson - SW/3</u>
Address	<u>P O Box 7921</u>
City, State, Zip Code	<u>Madison, WI 53707</u>

- Monitoring Well (W)
- Surface Water (W)
- Private Well (W)
- Wastewater (E)
- Lysimeter (W)
- Waste (B)
- Oil (O)
- Soil (S)
- Leachate (L)
- Other \_\_\_\_\_

Enforcement SEP 18 1984 Split Sample  Yes  No

Collected by Perry Evanson  
Telephone (608) 266-0941

Received by \_\_\_\_\_

Account Number \_\_\_\_\_  
For Lab Use Only

Date Received AUG 1 1984

Sample Number 84-5 541

Lab Use	Chemical Name	Concentration	Lab Use	Chemical Name	Concentration
(425)	Trichloroethylene	300 ug/L			
(17)	1,2 Dichloroethylene	60 ug/L			
(025)	Benzene	62 ug/L			
(233)	Ethylbenzene	< 1.0 ug/L			
(411)	Toluene	< 1.0 ug/L			
(393)	Styrene	< 2.0 ug/L			
(437)	Total Xylene	< 2.0 ug/L			
(169)	1,1 dichloroethylene	< 1.0 ug/L			

Comments

GC/MS Scan-ID Major peaks

Expected vac concentration - moderate (~ 100 ppb)



Bill To:  Hazardous Waste  Non-Hazardous Waste  Spill Program

Facility Name Freeman Chemical Corporation Lic No. 0 Field No. MW-2

County Dauke County Code 46 DNR Point ID No. \_\_\_\_\_

Collection Date: 07/31/84 Time (24-Hour Clock): \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
M M D D Y Y H H M M

SEP 18 1984

Sample Location Saukville City Well #2; water used only for non-contact cooling at Freeman

Sample Description \_\_\_\_\_

Send Report To: Name Theresa A. Evanson - SW/S  
Address P.O. Box 7921  
City, State, Zip Code Madison, WI 53707

- Monitoring Well (W)
  - Surface Water (W)
  - Private Well (W)
  - Wastewater (E)
  - Lysimeter (W)
  - Waste (B)
  - Oil (O)
  - Soil (S)
  - Leachate (L)
  - Other Public Well
- Enforcement  Yes  No  
Split Sample  Yes  No

Collected by Perry Evanson  
Telephone (608) 266-0941

Received by \_\_\_\_\_  
Date Received AUG 1 1984

Account Number \_\_\_\_\_  
For Lab Use Only

Sample Number 84-5 542

Lab Use	Chemical Name	Concentration	Lab Use	Chemical Name	Concentration
(425)	Trichloroethylene	1.0 ug/L			
(171) 2	Dichloroethylene	< 1.0 ug/L			
(025)	Benzene	< 1.0 ug/L			
(233)	Ethylbenzene	< 1.0 ug/L			
(411)	Toluene	< 1.0 ug/L			
(393)	Styrene	< 2.0 ug/L			
(437)	Total Xylene	< 2.0 ug/L			
(169)	1,1 dichloroethylene	< 1.0 ug/L			

Comments  
GC/MS Scan - 10 major peaks  
Expected VOC concentration - below detection limits



Bill To:  Hazardous Waste  Non-Hazardous Waste  Spill Program

Facility Name Freeman Chemical Corporation

Lic No. 0 Field No. FB-1

County Dauke

County Code 46 DNR Point ID No. \_\_\_\_\_

Collection Date: 07/31/84  
M M D D Y Y

Time (24-Hour Clock): \_\_\_\_\_ / \_\_\_\_\_  
H H / M M

Sample Location \_\_\_\_\_

Sample Description \_\_\_\_\_

SEP 18 1984

Send Report To:

Name	<u>Theresa A. EVANSON - SW/3</u>
Address	<u>P O Box 7921</u>
City, State, Zip Code	<u>Madison, WI 53707</u>

- Monitoring Well (W)
- Surface Water (W)
- Private Well (W)
- Wastewater (E)
- Lysimeter (W)
- Waste (B)
- Oil (O)
- Soil (S)
- Leachate (L)
- Other \_\_\_\_\_

Collected by Perry EVANSON  
Telephone (608) 266-0941

Enforcement  Yes  No  
Split Sample  Yes  No

Account Number \_\_\_\_\_  
For Lab Use Only

Received by \_\_\_\_\_  
Date Received AUG 1 1984

Sample Number 84-5 533

Lab Use	Chemical Name	Concentration	Lab Use	Chemical Name	Concentration
(425)	Trichloroethylene	< 1.0			
(67) 1,2	Dichloroethylene	1.8			
(225)	Benzene	< 1.0			
(233)	Ethylbenzene	< 1.0			
(411)	Toluene	< 1.0			
(393)	Styrene	< 2.0			
(437)	Total Xylene	< 2.0			
(169)	1,1 Dichloroethylene	< 1.0			

Comments  
GC/MS Scan - 10 major peaks  
Expected VOC concentration -  
below detection limits



Attachment 1, 9 Souville Water Supply Memo

Sauville Well Case (Freeman Chemical) - Results of July 31, 1984  
 Split Sampling Program

Well #	Trichloroethylene	1,2-Dichloroethylene	Benzene	Ethyl benzene	Toluene	Styrene	Total Xylenes	1,1-DCE	Other
PZ-1	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<1.0	Identified: dichlorofluoroethane trichlorofluoroethane hydrocarbons
PZ-2	3.5	4.8	120	600	3700	<2.0	11,000	<1.0	PCE - 5.1 ug/l 1,2-Dichloroethane - 1.8 ug/l 1,1,1-Trichloroethane - 1.3 ug/l Identified: acetone, vinyl chloride, hydrocarbons
PZ-3	3.3	5.3	140	2800	640	<2.0	25,000	<1.0	PCE - 20 ug/l 1,1,1-Trichloroethane - 4.5 ug/l Identified: hydrocarbons
PZ-5	*	5300	7200	25,000	23,000	<2.0	48,000	*	Identified: vinyl chloride, dichlorofluoroethane trichlorofluoroethane acetone methyl ethyl ketone hydrocarbons
* PZ-6	* Tentative ID of 1,1,1-trichloroethane, 1,1,1-trichloroethane, and 1,2-DCE made impossible.	560	100	500	840	<2.0	2700	<1.0	Identified: vinyl chloride, acetone, methyl ethyl ketone, hydrocarbons
* PZ-6 (duplicate)	* See note on PZ-6 above.	400	100	540	910	<2.0	3000	<1.0	Identified: vinyl chloride, acetone, methyl ethyl ketone, hydrocarbons



Attachment 1 (continued)

ug/l

Well #	Trichloroethylene	1,2-DCE	Benzene	Ethylbenzene	Toluene	Styrene	Total Xylenes	1,1-DCE	Other
PZ-9	<1.0	<1.0	<1.0	1.2	1.1	<2.0	<2.0	<1.0	Identified: hydrocarbons
PZ-14	<1.0	1.3	<1.0	<1.0	1.8	<2.0	4.9	<1.0	Identified: hydrocarbons, dichlorofluoromethane
PW-3	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<1.0	
PW-6	<1.0	7.9	<1.0	<1.0	<1.0	<2.0	<2.0	<1.0	1,2-dichloroethane - 2.0 ug/l Identified: vinyl chloride
PW-8 (Laubenstein well)	300	60	62	<1.0	<1.0	<2.0	<2.0	<1.0	Identified: hydrocarbons
MW-2	1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<1.0	
FB-1 (Field Blank)	<1.0	1.8	<1.0	<1.0	<1.0	<2.0	<2.0	<1.0	