SAMPLING DATA

1.46"

(1)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

WELL LOCATION

(Fill in completely - Refer to instruction sheet)

County in which well was drilled Elkhart Civil Township Concord

Driving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinct landmarks, etc.

Corner of St. Rd. 20 and Middleton Run Rd.

NAME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner [redacted] Address [redacted]

Building Contractor [redacted] dress

Name of Well Drilling Contractor: [redacted]

Address

Name of Drilling Equipment Operator:

WELL INFORMATION

Depth of well: 46 Date well was completed: 2-9-78

Diameter of casing or drive pipe: 2 Total Length: 40

Diameter of liner (if used): Total Length:

Diameter of Screen: 1¼ Length: 42 Slot Size: 10

Type of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other

Use of Well: For Home ☑ For Industry ☐ For Public Supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☑ Bucket Rig ☐

Static water level in completed well (Distance from ground to water level) 15 fee

Bailer Test: Hours Tested ½ Rate 20 g.p.m. Drawdown ____ ft.

Pumping Test: Hours Tested ____ Rate ____ g.p.m. Drawdown ____ ft.

(Drawdown is the differenc between static level and wa.e level at end of test)

Signature [signature]

Date Feb. 9, 1978

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

COUNTY [illegible] TWP. 37N RGE. 5E ¼ SE ¼ NW SEC 11 Subdivision Name

Topo Map Hubbard 1½

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

_____ Ft W of EL. Ground Elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

WATER WELL LOG

To	From	FORMATIONS (Color, type of material, hardness, etc.)
41	18	Sand
46	41	Gravel

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Elkhart Civil Township: _____

Congressional township: _____ Range: _____ Number of section: _____

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: East & south of Elkhart, in Meadowview Addition, near U. S. # 20, drilled on Wedgewood Road

Name of owner: [redacted] Address: [redacted]

Name of Well Drilling Contractor: [redacted]

Address: [redacted]

Name of Drilling Equipment Operator: [redacted]

INFORMATION ON THE WELL

Completed depth of well: 44 ft. Date well was completed: 5/13/68

Diameter of outside casing or drive pipe: 2" Length: 40

Diameter of inside casing or liner: _____ Length: _____

Diameter of Screen: 1¼ Length: 4' Slot size: 10

Type of Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other _____

Use of Well: For home [X] For industry [ ] For public supply [ ] Stock [ ]

Method of Drilling: Cable Tools [ ] Rotary [ ] Rev. Rotary [ ] Jet [X] Driven [ ]

Static water level in completed well (Distance from ground to water level) 16 ft.

Bailer Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and wate level at end of test)

Pumping Test: Hours tested 1 Rate 10 g.p.m. Drawdown 0 ft.

Signature William H. Kamm
BK

Date 6/15/68

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Coarse Sand	0'	22
Coarse Sand & Gravel	22	44
REMARKS:		

(Well driller does not fill out)

COUNTY: [illegible] TWP. 37N RGE. 5E ___ ¼ ___ ¼ ___ ¼ SEC. 1

Topo Map: [illegible]

Well log classified By [illegible] Date ______ Ft W of EL. Ground elevation ______

Courthouse located By ______ Date ______ Ft N of SL. Depth to bedrock ______

Field located By ______ Date ______ Ft E of WL. Bedrock elevation ______

Acc. w/o verification By ______ Date ______ Ft S of NL. Aquifer elevation ______

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as it may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. Please include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

(13)

WATER WELL RECORD

WELL LOCATION

(Fill in completely - Refer to instruction sheet)

County in which well was drilled Elkhart Civil Township Concord

Driving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinct landmarks, etc.

Between U.S. 20 & Middlebury St
[illegible] of [illegible] 13 on [illegible] St.

NAME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner [redacted] Address [redacted]

Building Contractor _____ Address _____

Name of Well Drilling Contractor: [redacted]

Address [redacted]

Name of Drilling Equipment Operator: [redacted]

WELL INFORMATION

Depth of well: 26' Date well was completed: 5-12-77

Diameter of casing or drive pipe: 2" Total Length: 26'

Diameter of liner (if used): _____ Total Length: _____

Diameter of Screen: 1 1/4" Length: 4' Slot Size: [illegible]

[illegible] Drilled ✓ [illegible] Pack ___ Driven ___ Other ___

[illegible] For Home ✓ For Farm ___ For Public Supply ___ Other ___

[illegible] Cable Tool ___ Rotary ___ Air Rotary ___ Jet ✓ Spring ___

Static water level in completed well (Distance from ground to water level) 15' f

Bailer Test: Hours Tested ___ Rate ___ g.p.m. Drawdown ___ ft.

Pumping Test: Hours Tested ___ Rate 1500 g.p.m. Drawdown ___ ft.

(Drawdown is the differ between static level and w level at end of test)

Signature [signature]

Date 5/24/77

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

COUNTY _____ TWP. 37 N RGE. 5 E _____ ¼ NE ¼ NW SEC 10 Subdivision Name

Topo Map _____ _____ Ft W of EL. Ground Elevation _____ _____

Field Located By _____ Date _____ _____ Ft N of SL. Depth to bedrock _____ _____

Courthouse Location By _____ Date _____ _____ Ft E of WL. Bedrock elevation _____ _____

Location accepted w/o verification by _____ _____ Ft S of NL. Aquifer elevation _____ Loc. Number _____

WATER WELL LOG

To	From	FORMATIONS (Color, type of material, hardness, etc.)
5	0	
17	5	
22	17	

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

2324160

WATER WELL RECORD

WELL LOCATION

(Fill in completely - Refer to instruction sheet)

County in which well was drilled [illegible] Civil Township [illegible]

Driving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinct landmarks, etc.

[illegible] Main Street Well Field

NAME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner [redacted] Address [redacted]

Building Contractor — Address —

Name of Well Drilling Contractor: [redacted]

Address [redacted]

Name of Drilling Equipment Operator: [redacted]

WELL INFORMATION

Depth of well: 60' Date well was completed: 1-4-77

Diameter of casing or drive pipe: 36" + 20" Total Length: 33' / [illegible]

Diameter of liner (if used): Total Length:

Diameter of Screen: 20" Length: 15' Slot Size: [illegible]

Type of Well: Drilled ☐ Gravel Pack ☒ Driven ☐ Other

Use of Well: For Home ☐ For Industry ☐ For Public Supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☒ Jet ☐ Bucket Rig ☐

Static water level in completed well (Distance from ground to water level) 19 feet

Bailer Test: Hours Tested ____ Rate ____ g.p.m. Drawdown ____ ft.

Pumping Test: Hours Tested 5 Rate 1000 g.p.m. Drawdown 12 ft.

(Drawdown is the difference between static level and water level at end of test)

Signature R. J. Williams

Date 1-4-77

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

WELL #9

COUNTY _____ TWP. 21 RGE. _____ ¼ ¼ ¼ SEC 5 Subdivision Name PEERLESS

Topo Map _____ Ft W of EL. Ground Elevation 715

Field Located By _____ Date _____ Ft N of SL. Depth to bedrock 1/4/77

Courthouse Location By _____ Date _____ Ft E of WL. Bedrock elevation _____

Location accepted w/o verification by _____ Ft S of NL. Aquifer elevation 660 Lot Number _____

WATER WELL LOG

To	From	FORMATIONS (Color, type of material, hardness, etc.)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

WELL LOCATION

(Fill in completely - Refer to instruction sheet)

County in which well was drilled ELKHART Civil Township OSLO

Driving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

NORTH MAIN ST WELL FIELD
435' N.E. of EDWARDSTOWN RD & 1100' W. of MAIN ST
WELL NO. 5-N

NAME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner [redacted] Address [redacted]

Building Contractor _____ Address _____

Name of Well Drilling Contractor: [redacted]

Address [redacted]

Name of Drilling Equipment Operator: [redacted]

WELL INFORMATION

Depth of well: 61' Date well was completed: 2-16-73

Diameter of casing or drive pipe: 36" Total Length: 46'

Diameter of liner (if used): 16" Total Length: 49'

Diameter of Screen: 16" Length: 15' Slot Size: .050

Type of Well: Drilled ☐ Gravel Pack ☒ Driven ☐ Other _____

Use of Well: For Home ☐ For Industry ☐ For Public Supply ☒ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☒ Jet ☐ Bucket Rig ☐

Static water level in completed well (Distance from ground to water level) 19 feet

Bailer Test: Hours Tested _____ Rate _____ g.p.m. _____ Drawdown _____ ft.

Pumping Test: Hours Tested 8 Rate 1500 g.p.m. _____ Drawdown 12½ ft.

(Drawdown is the difference between static level and water level at end of test)

Signature R. J. Williams

Date 3-13-73

(Well driller does not fill out)

COUNTY ELKHART TWP. 37N RGE. 5E ¼ ¼ NW SEC. 5 Subdivision Name NORTH MAIN ST. FIELD

Topo Map ELKHART 7½

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

_____ Ft W of EL.

_____ Ft N of SL.

_____ Ft E of WL.

_____ Ft S of NL.

Ground Elevation 244

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation 58

PRESTESS MOWER

2-16-73

Lot Number _____

WATER WELL LOG

To	From	FORMATIONS (Color, type of material, hardness, etc.)

"46"

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

WELL LOCATION

(Fill in completely - Refer to instruction sheet)

County in which well was drilled Elkhart Civil Township Concord

Driving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

Corner of St. Rd. 20 and Middleton Run Rd.

NAME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner [redacted] Address [redacted]

Building Contractor [redacted] ress

Name of Well Drilling Contractor: [redacted]

Address

Name of Drilling Equipment Operator:

WELL INFORMATION

Depth of well: 46 Date well was completed: 2-9-78

Diameter of casing or drive pipe: 2 Total Length: 40

Diameter of liner (if used): Total Length:

Diameter of Screen: 14 Length: 42 Slot Size: 10

Type of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other

Use of Well: For Home ☑ For Industry ☐ For Public Supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☑ Bucket Rig ☐

Static water level in completed well (Distance from ground to water level) 15 fee

Bailer Test: Hours Tested ½ Rate 20 g.p.m. Drawdown ____ ft.

Pumping Test: Hours Tested ____ Rate ____ g.p.m. Drawdown ____ ft.

(Drawdown is the differenc between static level and wa level at end of test)

Signature [illegible]

Date Feb. 9, 1978

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

COUNTY Elkhart TWP. 37N RGE. 5E ¼ SE ¼ NW SEC 11 Subdivision Name

Topo Map Elkhart 7½

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

_____ Ft W of EL. Ground Elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

WATER WELL LOG

To	From	FORMATIONS (Color, type of material, hardness, etc.)
41	18	Sand
46	41	Gravel

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Elkhart Civil Township: _____

Congressional township: _____ Range: _____ Number of section: _____

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: East & south of Elkhart, in Meadowview Addition, near U. S. # 20, drilled on Wedgewood Road

Name of owner: [redacted] Address: [redacted]

Name of Well Drilling Contractor: [redacted]

Address: [redacted]

Name of Drilling Equipment Operator: [redacted]

INFORMATION ON THE WELL

Completed depth of well: 44 ft. Date well was completed: 5/13/68

Diameter of outside casing or drive pipe: 2" Length: 40

Diameter of inside casing or liner: _____ Length: _____

Diameter of Screen: 1¼ Length: 4' Slot size: 10

Type of Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other _____

Use of Well: For home [X] For industry [ ] For public supply [ ] Stock [ ]

Method of Drilling: Cable Tools [ ] Rotary [ ] Rev. Rotary [ ] Jet [X] Driven [ ]

Static water level in completed well (Distance from ground to water level) 16 ft.

Bailer Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and wate level at end of test)

Pumping Test: Hours tested 1 Rate 10 g.p.m. Drawdown 0 ft.

Signature Kenneth M. Komm BK

Date 6/15/68

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

TER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Coarse Sand	0	22
Coarse Sand & Gravel	22	44
REMARKS:		

FOR DIVISION USE ONLY
(Well driller does not fill out)

COUNTY: Elkhart TWP. 37N RGE. 5E ___ ¼ ___ ¼ ___ ¼ SEC. 4

Topo Map: Elkhart [illegible] ___ Ft W of EL. Ground elevation ___

Well log classified By [illegible] Date ___ Ft N of SL. Depth to bedrock ___

Courthouse located By ___ Date ___ Ft E of WL. Bedrock elevation ___

Field located By ___ Date ___ Ft S of NL. Aquifer elevation ___

Acc. w/o verification By ___ Date ___

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as it may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. Please include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

WELL LOCATION

(Fill in completely - Refer to instruction sheet)

County in which well was drilled: Elkhart Civil Township: Concord

Driving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

Between U.S. 20 & Middlebury St.
[illegible] 13 on [illegible] dr.

NAME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner [redacted] Address [redacted]

Building Contractor _____ Address _____

Name of Well Drilling Contractor: [redacted]

Address [redacted]

Name of Drilling Equipment Operator: [redacted]

WELL INFORMATION

Depth of well: 26' Date well was completed: 5-12-77

Diameter of casing or drive pipe: 2" Total Length: 26'

Diameter of liner (if used): _____ Total Length: _____

Diameter of Screen: 1 1/4" Length: 4' Slot Size: 10

[illegible] Drilled ✓ Driven Pack ___ Driven ___ Other ___

[illegible] For Home ✓ For Farm ___ For Public Supply ___ Other ___

[illegible] Cable Tool ___ Rotary ___ Air Rotary ___ Jet ✓ Bucket Rig ___

Static water level in completed well (Distance from ground to water level) 15' ft.

Bailer Test: Hours Tested ___ Rate ___ g.p.m. Drawdown ___ ft. (Drawdown is the difference between static level and water level at end of test)

Pumping Test: Hours Tested ___ Rate 1500 g.p.m. Drawdown ___ ft.

Signature [signature]

Date 5/24/77

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

COUNTY _____ TWP. 37N RGE. 5E _____ ¼ NE ¼ NW SEC 10 Subdivision Name

Topo Map _____

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

_____ Ft W of EL. Ground Elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Loc. Number _____

WATER WELL LOG

To	From	FORMATIONS (Color, type of material, hardness, etc.)
5	0	[illegible]
22	5	[illegible]
22	22	[illegible]

DIVISION OF WATER
DEPARTMENT NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

WELL LOCATION

(Fill in completely - Refer to instruction sheet)

County in which well was drilled ELKHART Civil Township OSCO

Driving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

NORTH MAIN STREET WELL FIELD

NAME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner [redacted] Address [redacted]

Building Contractor — Address —

Name of Well Drilling Contractor: [redacted]

Address [redacted]

Name of Drilling Equipment Operator: [redacted]

WELL INFORMATION

Depth of well: 63' Date well was completed: 1-4-77

Diameter of casing or drive pipe: 36" + 20" Total Length: 33' / 45'

Diameter of liner (if used): Total Length:

Diameter of Screen: 20" Length: 15' Slot Size: .060

Type of Well: Drilled ☐ Gravel Pack ☒ Driven ☐ Other

Use of Well: For Home ☐ For Industry ☐ For Public Supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☒ Jet ☐ Bucket Rig ☐

Static water level in completed well (Distance from ground to water level) 19 feet

Bailer Test: Hours Tested ____ Rate ____ g.p.m. Drawdown ____ ft.

Pumping Test: Hours Tested 8 Rate 1000 g.p.m. Drawdown 12 ft.

(Drawdown is the difference between static level and water level at end of test)

Signature R. J. Williams

Date 1-4-77

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

SDEM-73

WELL #9

COUNTY [illegible] TWP. 27 RGE. [illegible] ¼ NW ¼ NW SEC 5 Subdivision Name PEERLESS

Topo Map [illegible] Ft W of EL. Ground Elevation 7[illegible]5

Field Located By _____ Date _____ Ft N of SL. Depth to bedrock _____ 1/4/77

Courthouse Location By _____ Date _____ Ft E of WL. Bedrock elevation _____

Location accepted w/o verification by _____ Ft S of NL. Aquifer elevation 62[illegible] Lot Number _____

WATER WELL LOG

To	From	FORMATIONS (Color, type of material, hardness, etc.)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

WELL LOCATION

(Fill in completely - Refer to instruction sheet)

County in which well was drilled ELKHART Civil Township OSCO

Driving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

NORTH MAIN ST WELL FIELD
435' N.E. OF FOWLERSBURG RD & 1100' W. OF MAIN ST
WELL NO. 5-N

NAME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner [redacted] Address [redacted]

Building Contractor _____ Address _____

Name of Well Drilling Contractor: [redacted]

Address [redacted]

Name of Drilling Equipment Operator: [redacted]

WELL INFORMATION

Depth of well: 61' Date well was completed: 2-16-73

Diameter of casing or drive pipe: 36" Total Length: 46'

Diameter of liner (if used): 16" Total Length: 48'

Diameter of Screen: 16" Length: 15' Slot Size: .050

Type of Well: Drilled ☐ Gravel Pack ☒ Driven ☐ Other _____

Use of Well: For Home ☐ For Industry ☐ For Public Supply ☒ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☒ Jet ☐ Bucket Rig ☐

Static water level in completed well (Distance from ground to water level) 19 feet

Bailer Test: Hours Tested _____ Rate _____ g.p.m. _____ Drawdown _____ ft.

Pumping Test: Hours Tested 8 Rate 1500 g.p.m. _____ Drawdown 13½ ft.

(Drawdown is the difference between static level and water level at end of test)

Signature R. J. Williams

Date 3-13-73

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

(Well driller does not fill out)

NORTH MAIN ST. FIELD

COUNTY ELKHART TWP. 37N RGE. 5E ¼ ¼ NW SEC 5 Subdivision Name

Topo Map ELKHART 7½

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

_____ Ft W of EL.

_____ Ft N of SL.

_____ Ft E of WL.

_____ Ft S of NL.

Ground Elevation 245 PRAIRIES-MIDWEST

Depth to bedrock _____ 2-16-73

Bedrock elevation _____

Aquifer elevation 61 Lot Number _____

WATER WELL LOG

To	From	FORMATIONS (Color, type of material, hardness, etc.)

SAMPLE PROPOSAL
FIT REGION V

1. Date Form Completed 7/15/88

2. Account # FT1305 FIN0646 TDD # F05-8709-014 (WP)

EPA I.D. # IND980792162

3. Site Name, City, State LASALLE DEITCH CO., INC. INSTAMATIC DIVISION, ELKHART, INDIANA

4. Team Leader ~~DIRK PAGER~~ Short Sampler ~~PAD~~ Skinner

5. Number and Type of Samples:

Soil/Sediment 5 Surface Water ____ Ground Water ____

Residential/Municipal Wells 3 Other ____

Number of Blanks 1 Number of Duplicates 1

6. RAS Parameters Requested:

A/B/N ~~VOA~~ Pest/PCB ____ Volatiles X Metals ____ Cyanide ____

SAS Parameters Requested: ____

7. Expected Sampling Date(s): 8/15 - 8/19

Expected Shipping Date(s): 8/15 - 8/19

8. Lab Used For Analysis: Organic ~~Soils~~ Chemwest ~~Rec~~ Versar

Inorganic ____

SAS ____

9. Case Number 10220 SAS Number 3919E

10. Airbill Numbers

Organic Lab Chemwest 8/18 1234660254 # Coolers 1 # Samples 5 soils VOA only

~~Inorganic~~ Lab Versar 338140095 # Coolers 1 # Samples 5 ~~rec~~ VOA only

CRL/SAS Lab ____ # Coolers ____ # Samples ____

complete

SAMPLE DESCRIPTION

SITE NAME/TDD# LaSalle Deitch Co. Inc. Instamatic Div

CASE NUMBER 10220

SAMPLE #/STATION LOCATION Res Well 1 + MSD

SAMPLING DATE 8/18/88 SAMPLING TIME 1300

ORGANIC TRAFFIC NUMBER EW 301

INORGANIC TRAFFIC NUMBER ME —

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
40ml	VOA	5-157827, 5-157828 5-157829, 5-157830	B8042124

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Clear

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: none

INSTRUMENT READINGS

pH 7.65

CONDUCTIVITY 500

TEMPERATURE 15°C

SAMPLE DESCRIPTION

SITE NAME/TDD# LaSalle Deitch Co. Inc. Instamatic Div

CASE NUMBER 10220

SAMPLE #/STATION LOCATION ResWell 2

SAMPLING DATE 8/18/88 SAMPLING TIME 1320

ORGANIC TRAFFIC NUMBER EW 302

INORGANIC TRAFFIC NUMBER ME —

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
40ml	VOA	5-157831, 5-157832	B8042124

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Clear

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: none

INSTRUMENT READINGS

pH 7.37

CONDUCTIVITY 450

TEMPERATURE 15°C

SAMPLE DESCRIPTION

SITE NAME/TDD# LaSalle Deitch Co. Inc. Instamatic Div

CASE NUMBER 10220

SAMPLE #/STATION LOCATION Duplicate

SAMPLING DATE 8/18/88 SAMPLING TIME 1320

ORGANIC TRAFFIC NUMBER EW 303

INORGANIC TRAFFIC NUMBER ME

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
40ml	VOA	5-157833, 5-157834	B8042124

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Clear

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: none

INSTRUMENT READINGS

pH 7.37

CONDUCTIVITY 450

TEMPERATURE 15°C

SAMPLE DESCRIPTION

SITE NAME/TDD# LaSalle Deitch Co. Inc. Instamatic Div

CASE NUMBER 10220

SAMPLE #/STATION LOCATION Reswell 3

SAMPLING DATE 8/18/88 SAMPLING TIME 1420

ORGANIC TRAFFIC NUMBER EW 304

INORGANIC TRAFFIC NUMBER ME

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
40ml	VOA	5-157835, 5-157836	B8042124

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Clear

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: none

INSTRUMENT READINGS

pH 7.50

CONDUCTIVITY 400

TEMPERATURE 15°C

SAMPLE DESCRIPTION

SITE NAME/TDD# LaSalle Deitch Co. Inc. Instamatic Div

CASE NUMBER 10220

SAMPLE #/STATION LOCATION Blank

SAMPLING DATE 8/18/88 SAMPLING TIME 1110

ORGANIC TRAFFIC NUMBER EW 305

INORGANIC TRAFFIC NUMBER ME

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
40ml	VOA	5-157837, 5-157838	B8042124

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Clear

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: none

INSTRUMENT READINGS

pH 6.93

CONDUCTIVITY 0

TEMPERATURE 25°C

SAMPLE DESCRIPTION

SITE NAME/TDD# LaSalle Deitch Co. Inc. Instamatic Div.

CASE NUMBER 10220

SAMPLE #/STATION LOCATION Soil S1

SAMPLING DATE 8/18/88 SAMPLING TIME 1100

ORGANIC TRAFFIC NUMBER EAV26

INORGANIC TRAFFIC NUMBER ME —

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120ml	VOA	5-096141, 5-096142	D8153114

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Dark Brown Sandy Loam

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS N/A

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Lasalle Deitch Co. Inc. Instamatic Div.

CASE NUMBER 10220

SAMPLE #/STATION LOCATION Soil S2

SAMPLING DATE 8/18/88 SAMPLING TIME 1115

ORGANIC TRAFFIC NUMBER EAV 27

INORGANIC TRAFFIC NUMBER ME —

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120ml	VOA	5-096143, 5-096144	D8153114

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Medium Brown Sand

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS N/A

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Lasalle Deitch Co. Inc. Instamatic Div.

CASE NUMBER 10220

SAMPLE #/STATION LOCATION Soil S3

SAMPLING DATE 8/18/88 SAMPLING TIME 1125

ORGANIC TRAFFIC NUMBER EAV 28

INORGANIC TRAFFIC NUMBER ME —

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120ml	VOA	5-096145, 5-096146	D8153114

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Medium Brown Sand

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS N/A

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Lasalle Deitch Co. Inc. Instamatic Div.

CASE NUMBER 10220

SAMPLE #/STATION LOCATION Soil S4

SAMPLING DATE 8/18/88 SAMPLING TIME 1135

ORGANIC TRAFFIC NUMBER EAV 29

INORGANIC TRAFFIC NUMBER ME —

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120ml	VOA	5-096147, 5-096148	D8153114

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Medium Brown Sand

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS N/A

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Lasalle Deitch Co. Inc. Instamatic Div.

CASE NUMBER 10220

SAMPLE #/STATION LOCATION Soil S

SAMPLING DATE 8/18/88 SAMPLING TIME 1200

ORGANIC TRAFFIC NUMBER EAV30

INORGANIC TRAFFIC NUMBER ME —

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120ml	VOA	5-096149, 5-096150	D8153114

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Dark Brown Sandy Loam

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS N/A

pH

CONDUCTIVITY

TEMPERATURE

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

Cooler ID# 95

PROJ. NO.: FS-8709-014

PROJECT NAME: FN0646 / Case # 10220 / SAS # 3919E

SAMPLERS: (Signature) Steve Shinner

Low Concentration

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	40 ml VOA						REMARKS OTR#	Matrix
RW1+MSD	8/18/88	1300		✓	Roswell 1 +MSD	4	4						EW 301	water
RW2	8/18/88	1320		✓	Roswell 2	2	2						EW 302	water
Duplicate	8/18/88	1320		✓	Duplicate	2	2						EW 303	water
RW3	8/18/88	1420		✓	Roswell 3	2	2						EW 304	water
Blank	8/18/88	1110		✓	Blank	2	2						EW 305	water

Lot #
SIS ~~120ml~~
40ml - B8042124

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steve Shinner	8/18/88 1530				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Shipped Federal Express to Vesar
Airbill - ~~1234 66254~~ SIS 338140095
Custody Seals - 7401, 7402

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

05-04847

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD Cooler ID # 77

PROJ. NO.: F5-8709-014
PROJECT NAME: FIN0646 / Case # 10220
SAMPLERS: (Signature) Steve Shimmer

Low Concentration

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	120ml VOA						REMARKS OTR#	Matrix
S1	8/18/88	1100		✓	Soil S1	2	2						EAV 26	Soil
S2	8/18/88	1115		✓	Soil S2	2	2						EAV 27	Soil
S3	8/18/88	1125		✓	Soil S3	2	2						EAV 28	Soil
S4	8/18/88	1135		✓	Soil S4	2	2						EAV 29	Soil
S5	8/18/88	1200		✓	Soil S5	2	2						EAV 30	Soil
													Lot#	
													120ml - D8153114	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steve Shimmer	8/18/88 1530				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Shipped Federal Express to Chemwest Airbill - ~~3381140095~~ 1237466254 Custody Seals - 7399, 7400	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

05-04842

SAMPLE DESCRIPTION

SITE NAME/TDD# LaSalle Deitch Co. Inc. Instantic Div

CASE NUMBER 10220

SAMPLE #/STATION LOCATION Res Well 1 + MSD

SAMPLING DATE 8/18/88 SAMPLING TIME 1300

ORGANIC TRAFFIC NUMBER EW 301

INORGANIC TRAFFIC NUMBER ME —

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
40ml	VOA	5-157827, 5-157828 5-157829, 5-157830	B8042124

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Clear

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: none

INSTRUMENT READINGS

pH 7.65

CONDUCTIVITY 500

TEMPERATURE 15°C

SAMPLE DESCRIPTION

SITE NAME/TDD# LaSalle Deitch Co. Inc. Instamatic Div

CASE NUMBER 10220

SAMPLE #/STATION LOCATION ResWell 2

SAMPLING DATE 8/18/88 SAMPLING TIME 1320

ORGANIC TRAFFIC NUMBER EW 302

INORGANIC TRAFFIC NUMBER ME —

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
40ml	VOA	5-157831, 5-157832	B8042124

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Clear

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: none

INSTRUMENT READINGS

pH 7.37

CONDUCTIVITY 450

TEMPERATURE 15°C

SAMPLE DESCRIPTION

SITE NAME/TDD# LaSalle Deitch Co. Inc. Instamatic Div

CASE NUMBER 10220

SAMPLE #/STATION LOCATION Duplicate

SAMPLING DATE 8/18/88 SAMPLING TIME 1320

ORGANIC TRAFFIC NUMBER EW 303

INORGANIC TRAFFIC NUMBER ME

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
40ml	VOA	5-157833, 5-157834	B8042124

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Clear

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: none

INSTRUMENT READINGS

pH 7.37

CONDUCTIVITY 450

TEMPERATURE 15°C

SAMPLE DESCRIPTION

SITE NAME/TDD# LaSalle Deitch Co. Inc. Instamatic Div

CASE NUMBER 10220

SAMPLE #/STATION LOCATION ResWell 3

SAMPLING DATE 8/18/88 SAMPLING TIME 1420

ORGANIC TRAFFIC NUMBER EW 304

INORGANIC TRAFFIC NUMBER ME

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
40ml	VOA	5-157835, 5-157836	B8042124

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Clear

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: none

INSTRUMENT READINGS

pH 7.50

CONDUCTIVITY 400

TEMPERATURE 15°C

SAMPLE DESCRIPTION

SITE NAME/TDD# LaSalle Deitch Co. Inc. Instamatic Div

CASE NUMBER 10220

SAMPLE #/STATION LOCATION Blank

SAMPLING DATE 8/18/88 SAMPLING TIME 1110

ORGANIC TRAFFIC NUMBER EW 305

INORGANIC TRAFFIC NUMBER ME

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
40ml	VOA	5-157837, 5-157838	B8042124

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Clear

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: none

INSTRUMENT READINGS

pH 6.93

CONDUCTIVITY 0

TEMPERATURE 25°C

SAMPLE DESCRIPTION

SITE NAME/TDD# Lasalle Deitch Co. Inc. Instamatic Div.

CASE NUMBER 10220

SAMPLE #/STATION LOCATION Soil S1

SAMPLING DATE 8/18/88 SAMPLING TIME 1100

ORGANIC TRAFFIC NUMBER EAV26

INORGANIC TRAFFIC NUMBER ME —

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120ml	VOA	5-096141, 5-096142	D8153114

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Dark Brown Sandy Loam

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS N/A

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Lasalle Deitch Co. Inc. Instamatic Div.

CASE NUMBER 10220

SAMPLE #/STATION LOCATION Soil S2

SAMPLING DATE 8/18/88 SAMPLING TIME 1115

ORGANIC TRAFFIC NUMBER EAV 27

INORGANIC TRAFFIC NUMBER ME —

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120ml	VOA	5-096143, 5-096144	D8153114

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Medium Brown Sand

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS N/A

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Lasalle Deitch Co. Inc. Instamatic Div.

CASE NUMBER 10220

SAMPLE #/STATION LOCATION Soil S3

SAMPLING DATE 8/18/88 SAMPLING TIME 1125

ORGANIC TRAFFIC NUMBER EAV 28

INORGANIC TRAFFIC NUMBER ME —

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120ml	VOA	5-096145, 5-096146	D8153114

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Medium Brown Sand

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS N/A

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Lasalle Deitch Co. Inc. Instamatic Div.

CASE NUMBER 10220

SAMPLE #/STATION LOCATION Soil S4

SAMPLING DATE 8/18/88 SAMPLING TIME 1135

ORGANIC TRAFFIC NUMBER EAV 29

INORGANIC TRAFFIC NUMBER ME —

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120ml	VOA	5-096147, 5-096148	D8153114

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Medium Brown Sand

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS N/A

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# LaSalle Deitch Co. Inc. Instamatic Div.

CASE NUMBER 10220

SAMPLE #/STATION LOCATION Soil S

SAMPLING DATE 8/18/88 SAMPLING TIME 1200

ORGANIC TRAFFIC NUMBER EAV30

INORGANIC TRAFFIC NUMBER ME —

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120ml	VOA	5-096149, 5-096150	D8153114

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Dark Brown Sandy Loam

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS N/A

pH

CONDUCTIVITY

TEMPERATURE

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD Cooler ID # 77

PROJ. NO.: F5-8709-014
PROJECT NAME: FIN0646 / Case # 10220
SAMPLERS: (Signature) Steve Shinner

Low Concentration

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	120ml VOA						REMARKS OTR#	Matrix
S1	8/18/88	1100		✓	Soil S1	2	2						EAV 26	Soil
S2	8/18/88	1115		✓	Soil S2	2	2						EAV 27	Soil
S3	8/18/88	1125		✓	Soil S3	2	2						EAV 28	Soil
S4	8/18/88	1135		✓	Soil S4	2	2						EAV 29	Soil
S5	8/18/88	1200		✓	Soil S5	2	2						EAV 30	Soil

Lot #
120ml - D8153114

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steve Shinner	8/18/88 1530				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Shipped Federal Express to Chemwest Airbill - ~~338110095~~ 123466254 Custody Seals - 7399, 7400	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

05- 04842

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

Cooler ID# 95

PROJ. NO.: FS-8709-014

PROJECT NAME: FN0646 / Case # 10220 / SAS # 3919E

SAMPLERS: (Signature) Steve Shinner

Low Concentration

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	40 ml VOA						OTR#	REMARKS Matrix
RW1+MSD	8/18/88	1300		✓	Reswell 1 +MSD	4	4						EW 301	water
RW2	8/18/88	1320		✓	Reswell 2	2	2						EW 302	water
Duplicate	8/18/88	1320		✓	Duplicate	2	2						EW 303	water
RW3	8/18/88	1420		✓	Reswell 3	2	2						EW 304	water
Blank	8/18/88	1110		✓	Blank	2	2						EW 305	water

Lot#
SIS ~~12oml~~
40ml - B8042124

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steve Shinner	8/18/88 1530				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Remarks: Shipped Federal Express to Vesar
Airbill - ~~1234 66254~~ SIS 338140095
Custody Seals - 7401, 7402

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

05-04847

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF:

FIT Inspection Date: Aug. 18, 1988

CERCLIS Site Name: Lasalle Deitch Co. - Inst. Div.

Site Address: 2323 Middlebury St. Elkhart IN.

Recipient Information: Fred Feick
Name

General Manager
Title

2323 Middlebury St
Street Address

Elkhart IN 46514
City Zip Code

[redacted]
Telephone Number

Ecology and Environment, Inc. has been retained by the United States Environmental Protection Agency (U.S. EPA) under contract 68-01-7347 for the purpose of evaluating sites under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), and the Superfund Amendments and Reauthorization Act (SARA).

A copy of the report regarding the inspection conducted at the above-referenced property will be forwarded by the U.S. EPA within 6 months. If a copy of the inspection report is not received within 6 months of the inspection date noted above, a written request may be sent to the U.S. EPA representative indicated below.

It is essential to include the U.S. EPA Identification Number listed below to ensure that your request is properly referenced.

U.S. EPA Identification Number IND980792162

Address requests to:

William Messenger, Chief
Pre-Remedial Unit (5HR11)
United States Environmental Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604
(312) 353-1057

Distribution:
White: FIT Site File; TDD No.: F05-8709-014 ; PAN: FIND646SB
Yellow: Recipient
Pink: U.S. EPA

MEMORANDUM

DATE: 10-3-88

TO: William Messenger, U.S. EPA

FROM: Ronald Short

SUBJECT: Drinking Water Sample Results

Sample RW 1

Site Name Lasalle Deitch Co. Inc., Instamatic Div.

PAN # FIN0646SB

TDD # F05-8709-014

EPA ID # IND980792162

Please find attached the data summary sheets.

Name [redacted]

Address [redacted]

City [redacted]

State [redacted]

Zip Code [redacted]

Phone Number [redacted]

Action Level

No Contamination ✓
No hits above any health-related standards.

Low Level Contamination _____
Hits just above health-related standards.

Significant Contamination _____
Hits are above health-related standards.

0099:3

ONLY Volatiles analyzed for

Table 1

DATA OF RESIDENTIAL WELL SAMPLE ANALYSIS AND APPLICABLE FEDERAL DRINKING WATER STANDARDS AND HEALTH ADVISORIES

SAMPLE: RW 1

CONTAMINANT / VOLATILE ORGANIC COMPOUNDS	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb): LAB BLANK	LABORATORY QUALITY CONTROL DATA (ppb): SAMPLE DUPLICATE	LABORATORY QUALITY CONTROL DATA (ppb): DETECTION LIMIT	COMMENTS
BENZENE		5	NR					1.5	
BROMODICHLOROMETHANE								1.5	
BROMOFORM								1.5	
BROMOMETHANE								10	
CARBON TETRACHLORIDE		5	NR					1.5	
CHLOROBENZENE			300					1.5	
CHLOROETHANE								1.5	
2-CHLOROETHYL VINYL ETHER								1.5	
CHLOROFORM						4.8		1.5	
CHLOROMETHANE								10	
DIBROMOCHLOROMETHANE						0.72 J		1.5	
1,1-DICHLOROETHANE								1.5	
1,2-DICHLOROETHANE		5	NR					1.5	
1,1-DICHLOROETHENE		7	7					1.5	
trans-1,2-DICHLOROETHENE			70					1.5	
1,2-DICHLOROPROPANE			NA					1.5	
cis-1,3-DICHLOPROPROPENE								2	
trans-1,3-DICHLOROPROPENE								1	
ETHYL BENZENE			680					1.5	
METHYLENE CHLORIDE			NR					1	
1,1,2,2-TETRACHLOROETHANE								1.5	
TETRACHLOROETHENE			NR					1.5	
TOLUENE			2420					1.5	
1,1,1-TRICHLOROETHANE		200	200					1.5	
1,1,2-TRICHLOROETHANE								1.5	
TRICHLOROETHENE		5	NR					1.5	
VINYL CHLORIDE		2	NR					10	

Table 1 (cont.)

CONTAMINANT	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
VOLATILE ORGANIC COMPOUNDS									
ACROLEIN								100	
ACETONE	3.4					11		75	
ACRYLONITRILE								50	
CARBON DISULFIDE								3	
2-BUTANONE			170					(50)	
VINYL ACETATE						1.8		15	
4-METHYL-2-PENTANONE						1.2 J		(3)	
2-HEXANONE								(50)	
STYRENE			140					1	
XYLENE, TOTAL			440					2	
SEMI-VOLATILE ORGANIC COMPOUNDS									
ANILINE								1.5	
BIS(2-CHLOROETHYL)ETHER								1.5	
PHENOL								2	
2-CHLOROPHENOL								2	
1,3-DICHLOROBENZENE			620					2	
1,4-DICHLOROBENZENE		75	75					2	
1,2-DICHLOROBENZENE			620					2.5	
BENZYL ALCOHOL								2	
BIS(2-CHLOROISOPROPYL) ETHER								2.5	
2-METHYLPHENOL								1	
HEXACHLOROETHANE								2	
N-NITROSODIPROPYLAMINE								1.5	
NITROBENZENE								2.5	
4-METHYLPHENOL								1	

A SURVEY OF THE ANALYTICAL RESULTS FOR SAMPLES WHICH WERE TAKEN DURING FIELD ACTIVITIES CAN BE FOUND IN THE FOLLOWING TABLES. ONLY DETECTABLE CONCENTRATIONS ARE REPORTED. HOWEVER, IF THE COMPOUND HAS A FOOTNOTE FOLLOWING THE VALUE, CONSULT THE DEFINITION OF THE FOOTNOTE PROVIDED BELOW. ADDITIONAL QA/QC IS PROVIDED IN THE ATTACHED DATA SHEETS.

I. REPORTING UNITS

A. Organics

1. Water Samples - ug/L or ppb (parts per billion)
2. Soils or Sediments - ug/kg or ppb (parts per billion)

B. Metals

1. Water Samples - ug/L or ppb (parts per billion)
2. Soils or Sediments - mg/kg or ppm (parts per million)

II. DEFINITION OF FOOTNOTES TO ANALYTICAL DATA

A. Organics

FOOTNOTE	DEFINITION	INTERPRETATION
U	Indicates compound was analyzed for but not detected.	Compound was not detected.
J	Indicates an estimated value.	Compound value may be semi-quantitative.
UJ	Quantitation limit is estimated due to a Quality Control (QC) protocol.	Compound was not detected.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides >10 ng/ul in the final extract shall be confirmed by GC/MS.	Compound was confirmed by mass spectroscopy
B	This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	Compound value may be semi-quantitative if it is <5x the blank concentration (<10x the blank concentrations for common lab artifacts: phthalates, methylene chloride, acetone, toluene, 2-butanone).
E	This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods.	Compound value may be semi-quantitative.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.	Alerts data user to a possible change in the CRQL.
A	This flag indicates that a TIC is a suspected aldol-condensation product.	Alerts data user of a lab artifact.
R	Results are unusable due to a major violation of QC protocol.	Compound value is not usable.

B. Inorganics

FOOTNOTE OLD	FOOTNOTE NEW	DEFINITION	INTERPRETATION
E	E	Estimated or not reported due to inteference. See laboratory narrative.	Compound or element was not detected or value may be semi-quantitative.
S	S	Analysis by Method of Standard Additions.	Value may be quantitative.
R	N	Spike recoveries outside QC protocols which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be semi-quantitative.
+	+	Correlation coefficient for standard additions in less than 0.995. See review and laboratory narrative.	Data value may be biased.
[ ]	B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
UJ		DL is estimated because of a QC protocol. DL is possibly above or below CRDL.	Compound or element was not detected.
J		Value is above CRDL and is an estimated value because of a QC Protocol.	Value may be semi-quantitative.
U	U	Compound was analyzed for but not detected.	Compound was not detected.
	M	Duplicate injection precision not met.	Value may be semi-quantitative.
	W	Post digestion spike for furnance AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semi-quantitative.

C. Other Symbols Used

NA Value not available due to insufficient data.
NR Value not recommended to be calculated, since chemical has proven to be a human carcinogen.
( ) Estimated value.

MEMORANDUM

DATE: 10-3-88

TO: William Messenger, U.S. EPA

FROM: Ronald Short

SUBJECT: Drinking Water Sample Results

Sample RW 2

Site Name Lasalle Deitch Co. Inc., Instamatic Div.

PAN # FIN0646SB

TDD # F05-8709-014

EPA ID # IND980792162

Please find attached the data summary sheets.

Name [redacted]

Address [redacted]

City [redacted]

State [redacted]

Zip Code [redacted]

Phone Numb[redacted]

Action Level

No Contamination ✓
No hits above any health-related standards.

Low Level Contamination _____
Hits just above health-related standards.

Significant Contamination _____
Hits are above health-related standards.

0099:3

ONLY Volatiles analyzed for

Table 1

DATA OF RESIDENTIAL WELL SAMPLE ANALYSIS AND APPLICABLE FEDERAL DRINKING WATER STANDARDS AND HEALTH ADVISORIES

SAMPLE: RW 2

CONTAMINANT / VOLATILE ORGANIC COMPOUNDS	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb): LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	COMMENTS
BENZENE		5	NR					1.5	
BROMODICHLOROMETHANE								1.5	
BROMOFORM								1.5	
BROMOMETHANE								10	
CARBON TETRACHLORIDE		5	NR					1.5	
CHLOROBENZENE			300					1.5	
CHLOROETHANE								1.5	
2-CHLOROETHYL VINYL ETHER								1.5	
CHLOROFORM						4.8		1.5	
CHLOROMETHANE								10	
DIBROMOCHLOROMETHANE						0.72 J		1.5	
1,1-DICHLOROETHANE								1.5	
1,2-DICHLOROETHANE		5	NR					1.5	
1,1-DICHLOROETHENE		7	7					1.5	
trans-1,2-DICHLOROETHENE			70					1.5	
1,2-DICHLOROPROPANE			NA					1.5	
cis-1,3-DICHLOPROPROPENE								2	
trans-1,3-DICHLOROPROPENE								1	
ETHYL BENZENE			680					1.5	
METHYLENE CHLORIDE			NR					1	
1,1,2,2-TETRACHLOROETHANE								1.5	
TETRACHLOROETHENE			NR					1.5	
TOLUENE			2420					1.5	
1,1,1-TRICHLOROETHANE		200	200					1.5	
1,1,2-TRICHLOROETHANE								1.5	
TRICHLOROETHENE		5	NR					1.5	
VINYL CHLORIDE		2	NR					10	

Table 1 (cont.)

CONTAMINANT	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
VOLATILE ORGANIC COMPOUNDS						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
ACROLEIN								100	
ACETONE	1.9 J					11	2.3	75	
ACRYLONITRILE								50	
CARBON DISULFIDE								3	
2-BUTANONE			170					(50)	
VINYL ACETATE						1.8		15	
4-METHYL-2-PENTANONE						1.2 J		(3)	
2-HEXANONE								(50)	
STYRENE			140					1	
XYLENE, TOTAL			440					2	
SEMI-VOLATILE ORGANIC COMPOUNDS									
ANILINE								1.5	
BIS(2-CHLOROETHYL)ETHER								1.5	
PHENOL								2	
2-CHLOROPHENOL								2	
1,3-DICHLOROBENZENE			620					2	
1,4-DICHLOROBENZENE		75	75					2	
1,2-DICHLOROBENZENE			620					2.5	
BENZYL ALCOHOL								2	
BIS(2-CHLOROISOPROPYL) ETHER								2.5	
2-METHYLPHENOL								1	
HEXACHLOROETHANE								2	
N-NITROSODIPROPYLAMINE								1.5	
NITROBENZENE								2.5	
4-METHYLPHENOL								1	

A SURVEY OF THE ANALYTICAL RESULTS FOR SAMPLES WHICH WERE TAKEN DURING FIELD ACTIVITIES CAN BE FOUND IN THE FOLLOWING TABLES. ONLY DETECTABLE CONCENTRATIONS ARE REPORTED. HOWEVER, IF THE COMPOUND HAS A FOOTNOTE FOLLOWING THE VALUE, CONSULT THE DEFINITION OF THE FOOTNOTE PROVIDED BELOW. ADDITIONAL QA/QC IS PROVIDED IN THE ATTACHED DATA SHEETS.

I. REPORTING UNITS

A. Organics

1. Water Samples - ug/L or ppb (parts per billion)
2. Soils or Sediments - ug/kg or ppb (parts per billion)

B. Metals

1. Water Samples - ug/L or ppb (parts per billion)
2. Soils or Sediments - mg/kg or ppm (parts per million)

II. DEFINITION OF FOOTNOTES TO ANALYTICAL DATA

A. Organics

FOOTNOTE	DEFINITION	INTERPRETATION
U	Indicates compound was analyzed for but not detected.	Compound was not detected.
J	Indicates an estimated value.	Compound value may be semi-quantitative.
UJ	Quantitation limit is estimated due to a Quality Control (QC) protocol.	Compound was not detected.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract shall be confirmed by GC/MS.	Compound was confirmed by mass spectroscopy
B	This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	Compound value may be semi-quantitative if it is <5x the blank concentration (<10x the blank concentrations for common lab artifacts: phthalates, methylene chloride, acetone, toluene, 2-butanone).
E	This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods.	Compound value may be semi-quantitative.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.	Alerts data user to a possible change in the CRQL.
A	This flag indicates that a TIC is a suspected aldol-condensation product.	Alerts data user of a lab artifact.
R	Results are unusable due to a major violation of QC protocol.	Compound value is not usable.

B. Inorganics

FOOTNOTE OLD	FOOTNOTE NEW	DEFINITION	INTERPRETATION
E	E	Estimated or not reported due to inteference. See laboratory narrative.	Compound or element was not detected or value may be semi-quantitative.
S	S	Analysis by Method of Standard Additions.	Value may be quantitative.
R	N	Spike recoveries outside QC protocols which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be semi-quantitative.
+	+	Correlation coefficient for standard additions in less than 0.995. See review and laboratory narrative.	Data value may be biased.
[ ]	B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
UJ		DL is estimated because of a QC protocol. DL is possibly above or below CRDL.	Compound or element was not detected.
J		Value is above CRDL and is an estimated value because of a QC Protocol.	Value may be semi-quantitative.
U	U	Compound was analyzed for but not detected.	Compound was not detected.
	M	Duplicate injection precision not met.	Value may be semi-quantitative.
	W	Post digestion spike for furnance AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semi-quantitative.

C. Other Symbols Used

NA Value not available due to insufficient data.
NR Value not recommended to be calculated, since chemical has proven to be a human carcinogen.
( ) Estimated value.

This Sample is from an on-site irrigation well. The water is not used for drinking purposes.
RS

MEMORANDUM

DATE: 10-3-88

TO: William Messenger, U.S. EPA

FROM: Ronald Short

SUBJECT: Drinking Water Sample Results

Sample RW 3

Site Name Lasalle Deitch Co. Inc., Instamatic Div.

PAN # FIN0646SB

TDD # F05-8709-014

EPA ID # IND980792162

Please find attached the data summary sheets. Fred Feick - Gen. Manager

Name Lasalle Deitch Co. Inc., Trade Names Div.

Address 2323 Middlebury St.

City Elkhart

State Indiana

Zip Code 46514

Phone Number [redacted]

Action Level only volatiles analyzed for

No Contamination _____
No hits above any health-related standards.

Low Level Contamination _____
Hits just above health-related standards.

Significant Contamination ✓
Hits are above health-related standards.

1,1,1-Trichloroethane 3200 µg/L

0099:3

THIS IS NOT USED FOR DRINKING WATER

Table 1

DATA OF RESIDENTIAL WELL SAMPLE ANALYSIS
AND APPLICABLE FEDERAL DRINKING WATER STANDARDS
AND HEALTH ADVISORIES

SAMPLE: RW 3

CONTAMINANT / VOLATILE ORGANIC COMPOUNDS	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb): LAB BLANK	LABORATORY QUALITY CONTROL DATA (ppb): SAMPLE DUPLICATE	LABORATORY QUALITY CONTROL DATA (ppb): DETECTION LIMIT	COMMENTS
BENZENE		5	NR					1.5	
BROMODICHLOROMETHANE								1.5	
BROMOFORM								1.5	
BROMOMETHANE								10	
CARBON TETRACHLORIDE		5	NR					1.5	
CHLOROBENZENE			300					1.5	
CHLOROETHANE								1.5	
2-CHLOROETHYL VINYL ETHER								1.5	
CHLOROFORM						4.8		1.5	
CHLOROMETHANE								10	
DIBROMOCHLOROMETHANE						0.72 J		1.5	
1,1-DICHLOROETHANE								1.5	
1,2-DICHLOROETHANE		5	NR					1.5	
1,1-DICHLOROETHENE		7	7					1.5	
trans-1,2-DICHLOROETHENE			70					1.5	
1,2-DICHLOROPROPANE			NA					1.5	
cis-1,3-DICHLOPROPROPENE								2	
trans-1,3-DICHLOROPROPENE								1	
ETHYL BENZENE			680					1.5	
METHYLENE CHLORIDE			NR					1	
1,1,2,2-TETRACHLOROETHANE								1.5	
TETRACHLOROETHENE			NR					1.5	
TOLUENE			2420					1.5	
1,1,1-TRICHLOROETHANE	3200	200	200					1.5	
1,1,2-TRICHLOROETHANE								1.5	
TRICHLOROETHENE		5	NR					1.5	
VINYL CHLORIDE		2	NR					10	

Table 1 (cont.)

CONTAMINANT	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
VOLATILE ORGANIC COMPOUNDS									
ACROLEIN								100	
ACETONE						11		75	
ACRYLONITRILE								50	
CARBON DISULFIDE								3	
2-BUTANONE			170					(50)	
VINYL ACETATE						1.8		15	
4-METHYL-2-PENTANONE						1.2 J		(3)	
2-HEXANONE								(50)	
STYRENE			140					1	
XYLENE, TOTAL			440					2	
SEMI-VOLATILE ORGANIC COMPOUNDS									
ANILINE								1.5	
BIS(2-CHLOROETHYL)ETHER								1.5	
PHENOL								2	
2-CHLOROPHENOL								2	
1,3-DICHLOROBENZENE			620					2	
1,4-DICHLOROBENZENE		75	75					2	
1,2-DICHLOROBENZENE			620					2.5	
BENZYL ALCOHOL								2	
BIS(2-CHLOROISOPROPYL) ETHER								2.5	
2-METHYLPHENOL								1	
HEXACHLOROETHANE								2	
N-NITROSODIPROPYLAMINE								1.5	
NITROBENZENE								2.5	
4-METHYLPHENOL								1	

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1. Water Samples - ug/L or ppb (parts per billion)
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II. DEFINITION OF FOOTNOTES TO ANALYTICAL DATA

A. Organics

FOOTNOTE	DEFINITION	INTERPRETATION
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B	This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	Compound value may be semi-quantitative if it is <5x the blank concentration (<10x the blank concentrations for common lab artifacts: phthalates, methylene chloride, acetone, toluene, 2-butanone).
E	This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods.	Compound value may be semi-quantitative.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.	Alerts data user to a possible change in the CRQL.
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FOOTNOTE OLD	FOOTNOTE NEW	DEFINITION	INTERPRETATION
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S	S	Analysis by Method of Standard Additions.	Value may be quantitative.
R	N	Spike recoveries outside QC protocols which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be semi-quantitative.
+	+	Correlation coefficient for standard additions in less than 0.995. See review and laboratory narrative.	Data value may be biased.
[ ]	B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
UJ		DL is estimated because of a QC protocol. DL is possibly above or below CRDL.	Compound or element was not detected.
J		Value is above CRDL and is an estimated value because of a QC Protocol.	Value may be semi-quantitative.
U	U	Compound was analyzed for but not detected.	Compound was not detected.
	M	Duplicate injection precision not met.	Value may be semi-quantitative.
	W	Post digestion spike for furnance AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semi-quantitative.

C. Other Symbols Used

NA Value not available due to insufficient data.
NR Value not recommended to be calculated, since chemical has proven to be a human carcinogen.
( ) Estimated value.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF:

Sample Collection Date: AUGUST 18, 1988

Recipient Information: [redacted]
Name

[redacted]
Street Address

[redacted]
City State Zip Code

[redacted]
Telephone Number

Ecology and Environment, Inc. has been retained by the United States Environmental Protection Agency (U.S. EPA) under contract 68-01-7347 for the purpose of evaluating sites under the Comprehensive Environmental Response-Compensation and Liability Act (CERCLA), and the Superfund Amendments and Reauthorization Act (SARA).

A copy of the sample analysis of samples collected from your property will be forwarded by the U.S. EPA within 6 months. If a copy of the sample analysis is not received within 6 months of the sample collection date noted above, a written request may be sent to the U.S. EPA representative indicated below.

It is essential to include the U.S. EPA Identification Number listed below to ensure that your request is properly referenced.

U. S. EPA Identification Number IND 980792162

Address requests to:

William Messenger, Chief
Pre-Remedial Unit (5HR11)
United States Environmental Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604
(312) 353-1057

Distribution:
White: FIT Site File; TDD No.: F05-8709-014 ; PAN: FIND646SB
Yellow: Recipient
Pink: U.S. EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF:

Sample Collection Date: AUGUST 18, 1988

Recipient Information: [redacted]
Name

[redacted]
Street Address

[redacted]
City State Zip Code

[redacted]
Telephone Number

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U. S. EPA Identification Number IND980792162

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William Messenger, Chief
Pre-Remedial Unit (5HR11)
United States Environmental Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604
(312) 353-1057

Distribution:
White: FIT Site File; TDD No.: F05-8709-014 ; PAN: FIN0646SB
Yellow: Recipient
Pink: U.S. EPA

RECEIPT FOR SAMPLES

U.S. EPA, 230 S. Dearborn St., Chicago, IL 60604

U.S. EPA ID NO: IND980792162

PROJ. ACCT. NO.: FIN0646SB

TDD: F05-8709-014

SPLIT SAMPLES ACCEPTED (✓) DECLINED ( )

FACILITY/OCCUPANT NAME: Lasalle Deitch Trade Name Div.

FACILITY/OCCUPANT ADDRESS: 2323 Middlebury Elkhart IN.

SAMPLE NUMBER	DATE	TIME	SPLIT SAMPLES (✓)	OTR*	ITR*	DESCRIPTION OF SAMPLE LOCATIONS	SEMIVOLATILES	PESTICIDES/PCBS	VOLATILES	METALS	CYANIDE			MATRIX
S1	8/18/88	1100	✓	EAN26	N/A	Next to driveway			✓					Soil
S2	8/18/88	1115	✓	EAN27	↓	near the Northwest			✓					Soil
S3	8/18/88	1125	✓	EAN28	↓	corner of the Southwest			✓					Soil
S4	8/18/88	1135	✓	EAN29	↓	Building			✓					Soil
RW3	8/18/88	1420		EW304		on-site irrigation well			✓					Water

TRANSFERRED BY: Donald W. Short (Signature) 8-18-88 (Date) 12:30 pm (Time)

RECEIVED BY: Fred L. Zeich (Signature) (Date) 8/18/88 (Time) 12:30 PM

TITLE

TELEPHONE

DISTRIBUTION
- WHITE: FIT SITE FILE
- YELLOW: FACILITY/OCCUPANT
- GREEN: FIT SAMPLE MANAGEMENT
- PINK: U.S. EPA

M E M O R A N D U M

DATE: 10-3-88

TO: William Messenger, U.S. EPA

FROM: Ronald Short

SUBJECT: Drinking Water Sample Results

Sample RW 1

Site Name Lasalle Deitch Co. Inc., Instamatic Div.

PAN # FIN0646SB

TDD # F05-8709-014

EPA ID # IND980792162

Please find attached the data summary sheets.

Name [redacted]

Address

City

State

Zip Code

Phone Numb

Action Level

No Contamination ✓
No hits above any health-related standards.

Low Level Contamination _____
Hits just above health-related standards.

Significant Contamination _____
Hits are above health-related standards.

0099:3

ONLY Volatiles analyzed for

Table 1

DATA OF RESIDENTIAL WELL SAMPLE ANALYSIS
AND APPLICABLE FEDERAL DRINKING WATER STANDARDS
AND HEALTH ADVISORIES

SAMPLE: RW 1						LABORATORY QUALITY CONTROL DATA (ppb)			
CONTAMINANT / VOLATILE ORGANIC COMPOUNDS	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	COMMENTS
BENZENE		5	NR					1.5	
BROMODICHLOROMETHANE								1.5	
BROMOFORM								1.5	
BROMOMETHANE								10	
CARBON TETRACHLORIDE		5	NR					1.5	
CHLOROBENZENE			300					1.5	
CHLOROETHANE								1.5	
2-CHLOROETHYL VINYL ETHER								1.5	
CHLOROFORM						4.8		1.5	
CHLOROMETHANE								10	
DIBROMOCHLOROMETHANE						0.72 J		1.5	
1,1-DICHLOROETHANE								1.5	
1,2-DICHLOROETHANE		5	NR					1.5	
1,1-DICHLOROETHENE		7	7					1.5	
trans-1,2-DICHLOROETHENE			70					1.5	
1,2-DICHLOROPROPANE			NA					1.5	
cis-1,3-DICHLOPROPROPENE								2	
trans-1,3-DICHLOROPROPENE								1	
ETHYL BENZENE			680					1.5	
METHYLENE CHLORIDE			NR					1	
1,1,2,2-TETRACHLOROETHANE								1.5	
TETRACHLOROETHENE			NR					1.5	
TOLUENE			2420					1.5	
1,1,1-TRICHLOROETHANE		200	200					1.5	
1,1,2-TRICHLOROETHANE								1.5	
TRICHLOROETHENE		5	NR					1.5	
VINYL CHLORIDE		2	NR					10	

Table 1 (cont.)

CONTAMINANT	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
VOLATILE ORGANIC COMPOUNDS									
ACROLEIN								100	
ACETONE	3.4					11		75	
ACRYLONITRILE								50	
CARBON DISULFIDE								3	
2-BUTANONE			170					(50)	
VINYL ACETATE						1.8		15	
4-METHYL-2-PENTANONE						1.2 J		(3)	
2-HEXANONE								(50)	
STYRENE			140					1	
XYLENE, TOTAL			440					2	
SEMI-VOLATILE ORGANIC COMPOUNDS									
ANILINE								1.5	
BIS(2-CHLOROETHYL)ETHER								1.5	
PHENOL								2	
2-CHLOROPHENOL								2	
1,3-DICHLOROBENZENE			620					2	
1,4-DICHLOROBENZENE		75	75					2	
1,2-DICHLOROBENZENE			620					2.5	
BENZYL ALCOHOL								2	
BIS(2-CHLOROISOPROPYL) ETHER								2.5	
2-METHYLPHENOL								1	
HEXACHLOROETHANE								2	
N-NITROSODIPROPYLAMINE								1.5	
NITROBENZENE								2.5	
4-METHYLPHENOL								1	

A SURVEY OF THE ANALYTICAL RESULTS FOR SAMPLES WHICH WERE TAKEN DURING FIELD ACTIVITIES CAN BE FOUND IN THE FOLLOWING TABLES. ONLY DETECTABLE CONCENTRATIONS ARE REPORTED. HOWEVER, IF THE COMPOUND HAS A FOOTNOTE FOLLOWING THE VALUE, CONSULT THE DEFINITION OF THE FOOTNOTE PROVIDED BELOW. ADDITIONAL QA/QC IS PROVIDED IN THE ATTACHED DATA SHEETS.

I. REPORTING UNITS

A. Organics

1. Water Samples - ug/L or ppb (parts per billion)
2. Soils or Sediments - ug/kg or ppb (parts per billion)

B. Metals

1. Water Samples - ug/L or ppb (parts per billion)
2. Soils or Sediments - mg/kg or ppm (parts per million)

II. DEFINITION OF FOOTNOTES TO ANALYTICAL DATA

A. Organics

FOOTNOTE	DEFINITION	INTERPRETATION
U	Indicates compound was analyzed for but not detected.	Compound was not detected.
J	Indicates an estimated value.	Compound value may be semi-quantitative.
UJ	Quantitation limit is estimated due to a Quality Control (QC) protocol.	Compound was not detected.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides >10 ng/ul in the final extract shall be confirmed by GC/MS.	Compound was confirmed by mass spectroscopy
B	This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	Compound value may be semi-quantitative if it is <5x the blank concentration (<10x the blank concentrations for common lab artifacts: phthalates, methylene chloride, acetone, toluene, 2-butanone).
E	This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods.	Compound value may be semi-quantitative.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.	Alerts data user to a possible change in the CRQL.
A	This flag indicates that a TIC is a suspected aldol-condensation product.	Alerts data user of a lab artifact.
R	Results are unusable due to a major violation of QC protocol.	Compound value is not usable.

B. Inorganics

FOOTNOTE OLD	FOOTNOTE NEW	DEFINITION	INTERPRETATION
E	E	Estimated or not reported due to inteference. See laboratory narrative.	Compound or element was not detected or value may be semi-quantitative.
S	S	Analysis by Method of Standard Additions.	Value may be quantitative.
R	N	Spike recoveries outside QC protocols which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be semi-quantitative.
+	+	Correlation coefficient for standard additions in less than 0.995. See review and laboratory narrative.	Data value may be biased.
[ ]	B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
UJ		DL is estimated because of a QC protocol. DL is possibly above or below CRDL.	Compound or element was not detected.
J		Value is above CRDL and is an estimated value because of a QC Protocol.	Value may be semi-quantitative.
U	U	Compound was analyzed for but not detected.	Compound was not detected.
	M	Duplicate injection precision not met.	Value may be semi-quantitative.
	W	Post digestion spike for furnance AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semi-quantitative.

C. Other Symbols Used

NA Value not available due to insufficient data.
NR Value not recommended to be calculated, since chemical has proven to be a human carcinogen.
( ) Estimated value.

M E M O R A N D U M

DATE: 10-3-88

TO: William Messenger, U.S. EPA

FROM: Ronald Short

SUBJECT: Drinking Water Sample Results

Sample RW 2

Site Name Lasalle Deitch Co. Inc., Instamatic Div.

PAN # FIN0646SB

TDD # F05-8709-014

EPA ID # IND980792162

Please find attached the data summary sheets.

Name [redacted]

Address [redacted]

City [redacted]

State [redacted]

Zip Code [redacted]

Phone Numb[redacted]

Action Level

No Contamination ✓
No hits above any health-related standards.

Low Level Contamination _____
Hits just above health-related standards.

Significant Contamination _____
Hits are above health-related standards.

0099:3

ONLY Volatiles analyzed for

Table 1

DATA OF RESIDENTIAL WELL SAMPLE ANALYSIS
AND APPLICABLE FEDERAL DRINKING WATER STANDARDS
AND HEALTH ADVISORIES

SAMPLE: RW 2 / CONTAMINANT / VOLATILE ORGANIC COMPOUNDS	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb): LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	COMMENTS
BENZENE		5	NR					1.5	
BROMODICHLOROMETHANE								1.5	
BROMOFORM								1.5	
BROMOMETHANE								10	
CARBON TETRACHLORIDE		5	NR					1.5	
CHLOROBENZENE			300					1.5	
CHLOROETHANE								1.5	
2-CHLOROETHYL VINYL ETHER								1.5	
CHLOROFORM						4.8		1.5	
CHLOROMETHANE								10	
DIBROMOCHLOROMETHANE						0.72 J		1.5	
1,1-DICHLOROETHANE								1.5	
1,2-DICHLOROETHANE		5	NR					1.5	
1,1-DICHLOROETHENE		7	7					1.5	
trans-1,2-DICHLOROETHENE			70					1.5	
1,2-DICHLOROPROPANE			NA					1.5	
cis-1,3-DICHLOPROPROPENE								2	
trans-1,3-DICHLOROPROPENE								1	
ETHYL BENZENE			680					1.5	
METHYLENE CHLORIDE			NR					1	
1,1,2,2-TETRACHLOROETHANE								1.5	
TETRACHLOROETHENE			NR					1.5	
TOLUENE			2420					1.5	
1,1,1-TRICHLOROETHANE		200	200					1.5	
1,1,2-TRICHLOROETHANE								1.5	
TRICHLOROETHENE		5	NR					1.5	
VINYL CHLORIDE		2	NR					10	

Table 1 (cont.)

CONTAMINANT	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
VOLATILE ORGANIC COMPOUNDS									
ACROLEIN								100	
ACETONE	1.9 J					11	2.3	75	
ACRYLONITRILE								50	
CARBON DISULFIDE								3	
2-BUTANONE			170					(50)	
VINYL ACETATE						1.8		15	
4-METHYL-2-PENTANONE						1.2 J		(3)	
2-HEXANONE								(50)	
STYRENE			140					1	
XYLENE, TOTAL			440					2	
SEMI-VOLATILE ORGANIC COMPOUNDS									
ANILINE								1.5	
BIS(2-CHLOROETHYL)ETHER								1.5	
PHENOL								2	
2-CHLOROPHENOL								2	
1,3-DICHLOROBENZENE			620					2	
1,4-DICHLOROBENZENE		75	75					2	
1,2-DICHLOROBENZENE			620					2.5	
BENZYL ALCOHOL								2	
BIS(2-CHLOROISOPROPYL) ETHER								2.5	
2-METHYLPHENOL								1	
HEXACHLOROETHANE								2	
N-NITROSODIPROPYLAMINE								1.5	
NITROBENZENE								2.5	
4-METHYLPHENOL								1	

A SURVEY OF THE ANALYTICAL RESULTS FOR SAMPLES WHICH WERE TAKEN DURING FIELD ACTIVITIES CAN BE FOUND IN THE FOLLOWING TABLES. ONLY DETECTABLE CONCENTRATIONS ARE REPORTED. HOWEVER, IF THE COMPOUND HAS A FOOTNOTE FOLLOWING THE VALUE, CONSULT THE DEFINITION OF THE FOOTNOTE PROVIDED BELOW. ADDITIONAL QA/QC IS PROVIDED IN THE ATTACHED DATA SHEETS.

I. REPORTING UNITS

A. Organics

1. Water Samples - ug/L or ppb (parts per billion)
2. Soils or Sediments - ug/kg or ppb (parts per billion)

B. Metals

1. Water Samples - ug/L or ppb (parts per billion)
2. Soils or Sediments - mg/kg or ppm (parts per million)

II. DEFINITION OF FOOTNOTES TO ANALYTICAL DATA

A. Organics

FOOTNOTE	DEFINITION	INTERPRETATION
U	Indicates compound was analyzed for but not detected.	Compound was not detected.
J	Indicates an estimated value.	Compound value may be semi-quantitative.
UJ	Quantitation limit is estimated due to a Quality Control (QC) protocol.	Compound was not detected.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides >10 ng/ul in the final extract shall be confirmed by GC/MS.	Compound was confirmed by mass spectroscopy
B	This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	Compound value may be semi-quantitative if it is <5x the blank concentration (<10x the blank concentrations for common lab artifacts: phthalates, methylene chloride, acetone, toluene, 2-butanone).
E	This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods.	Compound value may be semi-quantitative.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.	Alerts data user to a possible change in the CRQL.
A	This flag indicates that a TIC is a suspected aldol-condensation product.	Alerts data user of a lab artifact.
R	Results are unusable due to a major violation of QC protocol.	Compound value is not usable.

B. Inorganics

FOOTNOTE OLD	FOOTNOTE NEW	DEFINITION	INTERPRETATION
E	E	Estimated or not reported due to inteference. See laboratory narrative.	Compound or element was not detected or value may be semi-quantitative.
S	S	Analysis by Method of Standard Additions.	Value may be quantitative.
R	N	Spike recoveries outside QC protocols which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be semi-quantitative.
+	+	Correlation coefficient for standard additions in less than 0.995. See review and laboratory narrative.	Data value may be biased.
( )	B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
UJ		DL is estimated because of a QC protocol. DL is possibly above or below CRDL.	Compound or element was not detected.
J		Value is above CRDL and is an estimated value because of a QC Protocol.	Value may be semi-quantitative.
U	U	Compound was analyzed for but not detected.	Compound was not detected.
	M	Duplicate injection precision not met.	Value may be semi-quantitative.
	W	Post digestion spike for furnance AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semi-quantitative.

C. Other Symbols Used

NA Value not available due to insufficient data.
NR Value not recommended to be calculated, since chemical has proven to be a human carcinogen.
( ) Estimated value.

This Sample is from an on-site irrigation well. The water is not used for drinking purposes.

RS

MEMORANDUM

DATE: 10-3-88

TO: William Messenger, U.S. EPA

FROM: Ronald Short

SUBJECT: Drinking Water Sample Results

Sample RW 3

Site Name Lasalle Deitch Co. Inc., Instamatic Div.

PAN # FIN0646SB

TDD # F05-8709-014

EPA ID # IND980792162

Please find attached the data summary sheets. Fred Feick - Gen. Manager

Name Lasalle Deitch Co. Inc., Trade Names Div.

Address 2323 Middlebury St.

City Elkhart

State Indiana

Zip Code 46514

Phone Number [redacted]

Action Level only volatiles analyzed for

No Contamination _____
No hits above any health-related standards.

Low Level Contamination _____
Hits just above health-related standards.

Significant Contamination ✓
Hits are above health-related standards.

1,1,1-Trichloroethane 3200 µg/L

0099:3

THIS IS NOT USED FOR DRINKING WATER

Table 1

DATA OF RESIDENTIAL WELL SAMPLE ANALYSIS
AND APPLICABLE FEDERAL DRINKING WATER STANDARDS
AND HEALTH ADVISORIES

SAMPLE: RW 3

CONTAMINANT / VOLATILE ORGANIC COMPOUNDS	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb): LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	COMMENTS
BENZENE		5	NR					1.5	
BROMODICHLOROMETHANE								1.5	
BROMOFORM								1.5	
BROMOMETHANE								10	
CARBON TETRACHLORIDE		5	NR					1.5	
CHLOROBENZENE			300					1.5	
CHLOROETHANE								1.5	
2-CHLOROETHYL VINYL ETHER								1.5	
CHLOROFORM						4.8		1.5	
CHLOROMETHANE								10	
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1,1-DICHLOROETHANE								1.5	
1,2-DICHLOROETHANE		5	NR					1.5	
1,1-DICHLOROETHENE		7	7					1.5	
trans-1,2-DICHLOROETHENE			70					1.5	
1,2-DICHLOROPROPANE			NA					1.5	
cis-1,3-DICHLOPROPROPENE								2	
trans-1,3-DICHLOROPROPENE								1	
ETHYL BENZENE			680					1.5	
METHYLENE CHLORIDE			NR					1	
1,1,2,2-TETRACHLOROETHANE								1.5	
TETRACHLOROETHENE			NR					1.5	
TOLUENE			2420					1.5	
1,1,1-TRICHLOROETHANE	3200	200	200					1.5	
1,1,2-TRICHLOROETHANE								1.5	
TRICHLOROETHENE		5	NR					1.5	
VINYL CHLORIDE		2	NR					10	

Table 1 (cont.)

CONTAMINANT	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
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BENZYL ALCOHOL								2	
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2-METHYLPHENOL								1	
HEXACHLOROETHANE								2	
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J		Value is above CRDL and is an estimated value because of a QC Protocol.	Value may be semi-quantitative.
U	U	Compound was analyzed for but not detected.	Compound was not detected.
	M	Duplicate injection precision not met.	Value may be semi-quantitative.
	W	Post digestion spike for furnance AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semi-quantitative.

C. Other Symbols Used

NA Value not available due to insufficient data.
NR Value not recommended to be calculated, since chemical has proven to be a human carcinogen.
( ) Estimated value.

Table 4-_>_
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED >_____ SAMPLES

La Salle Kleitch #10220

2070-13 Physical State*	Waste Characteristics**	Category***	SI Memo	Sample Collection Information and Parameters / Compound Detected (values in > µg/L or µg/kg)	>_1	>_2	>_3	>_4	>_5	>_6	>_7	>_8	>_9	>_10	>_11	>_12
				Date												
				Time												
				Organic Traffic Report Number												
				Inorganic Traffic Report Number												
				Temperature (°C)												
				Specific Conductivity (µmhos)												
				pH												
				Volatile Organics	EAV 26	27	28	29	30							
Gas	A,D,G,I	OCC	HH	chloromethane												
Gas	A,D,G,I	OCC	HH	bromomethane												
Gas	A,D,G,I	OCC	HH	vinyl chloride												
Gas	A,D,G,I	OCC	HH	chloroethane												
Liquid	A,D,H,I	SOL	HH,CLA	methylene chloride												
Liquid	E,H,I,A	SOL	K,CLA	acetone												
Liquid	A,H,I	SOL	SH	carbon disulfide												
Liquid	A,D,G,I	SOL	HH	1,1-dichloroethene												
Liquid	A,D,H,G	SOL	HH	1,1-dichloroethane												
Liquid	A,D,G	SOL	HH	1,2-dichloroethene (total)												
Liquid	A,D	SOL	HH	chloroform												
Liquid	A,D,G	SOL	HH	1,2-dichloroethane												
Liquid	A,E,G	SOL	K,CLA	2-butanone (MEK)												
Liquid	A,D	SOL	HH	1,1,1-trichloroethane												
Liquid	A,D	SOL	HH	carbon tetrachloride												
Liquid	A,D,G	SOL	HYD	vinyl acetate												
Liquid	A,D	OCC	HH	bromodichloromethane												
Liquid	A,D,G	SOL	HH	1,2-dichloropropane												
Liquid	A,D,G	SOL	HH	cis-1,3-dichloropropene												
Liquid	A,D,G,B	SOL	HH	trichloroethene												
Liquid	A,D	OCC	HH	dibromochloromethane												
Liquid	A,D	SOL	HH	1,1,2-trichloroethane												
Liquid	A,G	SOL	A	benzene												
Liquid	A,D,G	SOL	HH	trans-1,3-dichloropropene												
Liquid	A,D	SOL	HH,CLA	bromoform												
Liquid	A,E,G	SOL	K,CLA	4-methyl-2-pentanone												
Liquid	A,E,G	SOL	K	2-hexanone												
Liquid	A,D	SOL	HH	tetrachloroethene												
Liquid	A,G,E	SOL	A,CLA	toluene	3 J	1 J		1 J	4 J							
Liquid	A,D,E	SOL	HH	1,1,2,2-tetrachloroethane												
Liquid	A,D,G	SOL	HA	chlorobenzene												
Liquid	A,G	SOL	A	ethylbenzene												
Liquid	A,D,G	OCC	A	styrene												
Liquid	A,G	SOL	A	xylenes (total)	1 J											

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF:

FIT Inspection Date: Aug. 18, 1988

CERCLIS Site Name: Lasalle Deitch Co. - Inst. Div.

Site Address: 2323 Middlebury St. Elkhart IN.

Recipient Information: Fred Fouk
Name

General Manager
Title

2323 Middlebury St
Street Address

Elkhart IN 46514
City State Zip Code

[redacted]
Telephone Number

Ecology and Environment, Inc. has been retained by the United States Environmental Protection Agency (U.S. EPA) under contract 68-01-7347 for the purpose of evaluating sites under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), and the Superfund Amendments and Reauthorization Act (SARA).

A copy of the report regarding the inspection conducted at the above-referenced property will be forwarded by the U.S. EPA within 6 months. If a copy of the inspection report is not received within 6 months of the inspection date noted above, a written request may be sent to the U.S. EPA representative indicated below.

It is essential to include the U.S. EPA Identification Number listed below to ensure that your request is properly referenced.

U.S. EPA Identification Number IND980792162

Address requests to:

William Messenger, Chief
Pre-Remedial Unit (5HR11)
United States Environmental Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604
(312) 353-1057

Distribution:
White: FIT Site File; TDD No.: F05-8709-014; PAN: FIND646SB
Yellow: Recipient
Pink: U.S. EPA

RECEIPT FOR SAMPLES

U.S. EPA, 230 S. Dearborn St., Chicago, IL 60604

U. S. EPA ID NO IND980792162

PROJ. ACCT. NO. FIN0646SB

TDD F05-8709-014

SPLIT SAMPLES ACCEPTED(✓) DECLINED( )

FACILITY/OCCUPANT NAME Lavelle Dertin Trade Name Dr.

FACILITY/OCCUPANT ADDRESS 2323 Middlebury Elkhart IN.

SAMPLE NUMBER	DATE	TIME	SPLIT SAMPLES (✓)	OTR*	ITR*	DESCRIPTION OF SAMPLE LOCATIONS	SEMIVOLATILES	PESTICIDES/PCBS	VOLATILES	METALS	CYANIDE			MATRIX
S1	8/18/88	1100	✓	EAN26	N/A	Next to driveway			✓					Soil
S2	8/18/88	1115	✓	EAN27		near the Northwest			✓					Soil
S3	8/18/88	1125	✓	EAN28		corner of the Southwest			✓					Soil
S4	8/18/88	1135	✓	EAN29		building			✓					Soil
RW3	8/18/88	1420		EW304		on-site irrigation well			✓					Water

TRANSFERRED BY

(Signature) [illegible] (Date) 8-18-88 (Time) 12:50 pm

RECEIVED BY:

(Signature) [illegible] (Date) 8/19/88 (Time) 12:30 pm

TITLE

TELEPHONE

DISTRIBUTION

WHITE: FIT SITE FILE
YELLOW: FACILITY/OCCUPANT
GREEN: FIT SAMPLE MANAGEMENT
PINK: U.S. EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF:

Sample Collection Date: AUGUST 18, 1988

Recipient Information: [redacted]
Name

[redacted]
Street Address

[redacted]
City State Zip Code

[redacted]
Telephone Number

Ecology and Environment, Inc. has been retained by the United States Environmental Protection Agency (U.S. EPA) under contract 68-01-7347 for the purpose of evaluating sites under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), and the Superfund Amendments and Reauthorization Act (SARA).

A copy of the sample analysis of samples collected from your property will be forwarded by the U.S. EPA within 6 months. If a copy of the sample analysis is not received within 6 months of the sample collection date noted above, a written request may be sent to the U.S. EPA representative indicated below.

It is essential to include the U.S. EPA Identification Number listed below to ensure that your request is properly referenced.

U. S. EPA Identification Number IND980792162

Address requests to:

William Messenger, Chief
Pre-Remedial Unit (5HR11)
United States Environmental Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604
(312) 353-1057

Distribution:
White: FIT Site File; TDD No.: F05-8709-014 ; PAN: FIN0646SB
Yellow: Recipient
Pink: U.S. EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF:

Sample Collection Date: August 18, 1988

Recipient Information: [redacted]
Name

[redacted]
Street Address

[redacted]
City State Zip Code

[redacted]
Telephone Number

Ecology and Environment, Inc. has been retained by the United States Environmental Protection Agency (U.S. EPA) under contract 68-01-7347 for the purpose of evaluating sites under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), and the Superfund Amendments and Reauthorization Act (SARA).

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ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

CRL Receipt Date 9/7/88 FIT Receipt Date 9/20/88 Review Completed 9/20/88

TO: R. Short
FROM: Mary Gzyra
SUBJECT: LaSalle Welitch
PAN: IN0646SA (1 hour charged for review) Case # 10220/3919

Sample Description

Organics (VOA, ABN, Pest/PCB)		Inorganics (Metals, Cyanide)	
#	Low Soil	#	Low Soil
	Low Water		Low Water
5	Drinking Water — VOA		Drinking Water
	Other		Other

Project Data Status _____ Completed!!

✓ Incomplete, awaiting gas VOA

FIT Data Review Findings:
CLA and HA detected

Check Data Sheets for Transcription Errors

_____ Compounds were detected in sample(s); see enclosed sheet.

Book No. 8 Page No. 196 Date Sampled 8/18

0759:2

recycled paper

* Physical state of pure material, not necessarily the physical state of the waste.

** For Section II of 2070-13.

*** For Section III of 2070-13.

Abbreviations for waste characteristics:

A - Toxic
B - Corrosive
C - Radiative
D - Persistent
E - Soluble
F - Infectious
G - Flammable
H - Ignitable
I - Highly volatile
J - Explosive
K - Reactive
L - Incompatible
M - Not applicable

SI Memo & Category Abbreviations:

A - Aromatic
CLA - Common lab artifact
CSC - Common soil constituent
HA - Halogenated - aromatic
HH - Halogenated - hydrocarbon
HM - Heavy metal
HYD - Hydrocarbon
IOC - Other inorganic compound
K - Ketone
M - Metal (density < 5x water density)
NA - Nitrogen - aromatic
NH - Nitrogen - hydrocarbon
OCC - Other organic compound
P - Phenol
PAH - Polyaromatic hydrocarbon
PCB - Polychlorinated biphenyl
PEST - Pesticide
PH - Phthalate
SH - Sulfur - hydrocarbon
SOL - Solvent

0916:1

Table 4-_>_
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED >_____ SAMPLES

La Salle Kleitch 10220/3919

2070-13 Physical State*	Waste Characteristics**	Category***	SI Memo	Sample Collection Information and Parameters	>_1	>_2	>_3	>_4	>_5	>_6	>_7	>_8	>_9	>_10	>_11	>_12
				Date												
				Time												
				Organic Traffic Report Number												
				Inorganic Traffic Report Number												
				Temperature (°C)												
				Specific Conductivity (µmhos)												
				pH												
				Compound Detected (values in > µg/L or µg/kg)												
				Volatile Organics	EW 301	302	303	304	305							
Gas	A,D,G,I	OCC	HH	chloromethane												
Gas	A,D,G,I	OCC	HH	bromomethane												
Gas	A,D,G,I	OCC	HH	vinyl chloride												
Gas	A,D,G,I	OCC	HH	chloroethane												
Liquid	A,D,H,I	SOL	HH,CLA	methylene chloride												
Liquid	E,H,I,A	SOL	K,CLA	acetone	3.4	1.9	2.3		11							
Liquid	A,H,I	SOL	SH	carbon disulfide												
Liquid	A,D,G,I	SOL	HH	1,1-dichloroethene												
Liquid	A,D,H,G	SOL	HH	1,1-dichloroethane												
Liquid	A,D,G	SOL	HH	1,2-dichloroethene (total)												
Liquid	A,D	SOL	HH	chloroform					4.8							
Liquid	A,D,G	SOL	HH	1,2-dichloroethane												
Liquid	A,E,G	SOL	K,CLA	2-butanone (MEK)												
Liquid	A,D	SOL	HH	1,1,1-trichloroethane				3200								
Liquid	A,D	SOL	HH	carbon tetrachloride												
Liquid	A,D,G	SOL	HYD	vinyl acetate												
Liquid	A,D	OCC	HH	bromodichloromethane					1.8							
Liquid	A,D,G	SOL	HH	1,2-dichloropropane												
Liquid	A,D,G	SOL	HH	cis-1,3-dichloropropene												
Liquid	A,D,G,B	SOL	HH	trichloroethene												
Liquid	A,D	OCC	HH	dibromochloromethane					0.72 J							
Liquid	A,D	SOL	HH	1,1,2-trichloroethane												
Liquid	A,G	SOL	A	benzene												
Liquid	A,D,G	SOL	HH	trans-1,3-dichloropropene												
Liquid	A,D	SOL	HH,CLA	bromoform												
Liquid	A,E,G	SOL	K,CLA	4-methyl-2-pentanone					1.2 J							
Liquid	A,E,G	SOL	K	2-hexanone												
Liquid	A,D	SOL	HH	tetrachloroethene												
Liquid	A,G,E	SOL	A,CLA	toluene												
Liquid	A,D,E	SOL	HH	1,1,2,2-tetrachloroethane												
Liquid	A,D,G	SOL	HA	chlorobenzene												
Liquid	A,G	SOL	A	ethylbenzene												
Liquid	A,D,G	OCC	A	styrene												
Liquid	A,G	SOL	A	xylenes (total)												

COMPOUND QUALIFIERS	DEFINITION	INTERPRETATION
U	Indicates compound was analyzed for but not detected.	Compound was not detected at or above the CRDL.
J	Indicates an estimated value.	Compound value may be semiquantitative.
UJ	Quantitation limit is estimated due to a quality control (QC) protocol.	Compound was not detected if value is at CRQL, e.g., 10U UJ. If a value is reported with a UJ above CRQL and it is <5x blank concentration (10x for common laboratory artifacts), the compound is detected but may be a laboratory artifact and not attributable to the sample.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/µL in the final extract shall be confirmed by GC/MS.	Compound was confirmed by GC/MS and is quantitative. Use pesticide/PCB listed values.
B	This flag is used when the compound is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	Compound value may be semiquantitative if it is <5x the blank concentration (<10x the blank concentrations for common laboratory artifacts: phthalates, methylene chloride, acetone, toluene, 2-butanone).
E	This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will <u>not</u> apply to pesticides/PCBs analyzed by GC/EC methods.	Compound value may be semiquantitative. There should be another analysis with a D qualifier, which is to to be used.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.	Alerts data user to a possible change in the CRQL. Data is quantitative.
A	This flag indicates that a TIC is a suspected aldol-condensation product.	Alerts data user of a laboratory artifact in the TICs only.
R	Results are unusable due to a major violation of QC protocol.	Compound value is not usable.
X	Cannot be confirmed by CLP protocols.	Compound may or may not be present.

ANALYTE QUALIFIERS		DEFINITION	INTERPRETATION
OLD	NEW		
E	E	Estimated or not reported due to interference. See laboratory narrative.	Analyte or element was not detected, or value may be semiquantitative.
S	S	Analysis by Method of Standard Additions.	Value is quantitative.
R	N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semiquantitative.
+	+	Correlation coefficient for standard additions is less than 0.995. See review and laboratory narrative.	Data value may be biased.
[ ]	B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
UJ		DL is estimated because of a QC protocol. DL is possibly above or below CRDL.	Compound or element was not detected.
J		Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
U	U	Compound was analyzed for but not detected.	Compound was not detected at or above the CRDL.
	M	Duplicate injection precision not met.	Value may be semiquantitative.
	W	Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.
	R	Results are unusable due to a major violation of QC protocols.	Analyte value is not usable.

Source: Ecology and Environment, Inc. 1988.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

9/20

DATE: 9/16/88

SUBJECT: Review of Region V CLP Data Received for Review on 9-7-88

FROM: Curtis Ross, Director (5SCRL) Central Regional Laboratory Patrick J. Chenille for

TO: Data User: Zit

We have reviewed the data for the following case(s).

SITE NAME: LaSalle Deutch SMO Case No. 10220/3919E

EPA Data Set No. SF 5493 No. of Samples: 5 D.U./Activity Numbers 1905/C72122

CRL No. 88F527847-549, D48, R04

SMO Traffic No. EW301-305

CLP Laboratory: Versar Hrs. Required for Review: 4.5

Following are our findings:

THIS DATA REVIEW COVERS THE ANALYSIS OF FIVE WATER SAMPLES FOR VOLATILES ONLY. THESE WERE RUN ACCORDING TO THE LOW DETECTION LIMIT SOW 3919E. THERE WERE NO MAJOR PROBLEMS WHICH WOULD CAUSE THE DATA TO BE UNUSABLE. HOWEVER, THERE ARE SEVERAL POINTS OF IMPORTANCE TO BE DISCUSSED IN THE FOLLOWING SECTION.

ROBERT KATZEN
WESTON/ESAT
9/12/88

( ) Data are acceptable for use.
(✓) Data are acceptable for use with qualifications referenced above. See Data Qualifier sheets and Calibration Outlier forms for flags and additional comments.
( ) Data are preliminary - pending verification by Contractor Laboratory. See Case Summary above.
( ) Data are unacceptable.

cc: Carla Dempsey, CLP Quality Assurance Officer, Analytical Operations Branch
James Petty, Chief Quality Assurance Research, EMSL, Las Vegas

DATA QUALIFIERS

Contractor: VERSAR

Case #10220/3919E

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

(1) HOLDING TIME

HOLDING TIME WAS EXCEEDED FROM TIME OF SAMPLING TO TIME OF ANALYSIS FOR ALL VOLATILE SAMPLES FOUR DAYS PAST THE SEVEN DAYS LIMIT. THEREFORE, ALL VOA AROMATICS ARE ESTIMATED IN SAMPLES EW 301 TO EW 305.

THE DATE SAMPLES ARRIVED AT VERSAR WAS 8/19/88, ONE DAY PAST THE SAMPLING DATE.

(2) TUNING

BFB TUNING FOR VOLATILES WAS WITHIN THE REQUIRED LIMITS.

(3) CALIBRATION

THE CALIBRATION OUTLIER IS LISTED ON THE CALIBRATION OUTLIER FORM.

BROMOFORM, AN SPCC COMPOUND, IS BELOW THE REQUIRED 0.250 RF.

ACRYLONITRILE AND ACROLEIN IN THE INITIAL CALIBRATION SHOULD BE ANALYZED AT 25, 50, 75, 100 AND 125 ug/l. THE OTHER FIVE POINT INITIAL CALIBRATION COMPOUNDS ARE TO BE RUN AT 5, 10, 20, 40 AND 60 ug/l.

REVIEWED BY: [redacted]

PHONE:

DATE 9/2/88

DATA QUALIFIERS

Contractor: VERSAR

Case #10220/3914E

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

CALIBRATION - CONTINUED

THE INITIAL CALIBRATION FORM LISTS THAT IT IS A CONTINUING CALIBRATION CHECK. THE % RSD FOR ALL RF'S MUST BE ≤ 35%. IN THE INITIAL CALIBRATION THE RF OF ACROLEIN = 0.027. THEREFORE, THE ACROLEIN NEGATIVES OF VOA FORM I'S ARE FLAGGED UNUSABLE (R).

(4) BLANKS

THE VOA BLANK VBLK10 CONTAINED THE COMMON CONTAMINANT METHYLENE CHLORIDE AT 1.6 ug/l, ABOVE THE QUANTITATION LIMIT OF 1.0 ug/l.

METHYLENE CHLORIDE WAS FOUND IN EW-302, 303 AND 305 LESS THEN 10X AMOUNT FOUND IN THE BLANK. THEREFORE, METHYLENE CHLORIDE IS FLAGGED (U) ESTIMATED, THE COMPOUND QUANTITATION LIMIT.

NO TIC'S WERE FOUND IN THE BLANK.

(5) SURROGATE RECOVERY

ALL VOA RECOVERIES FOR SURROGATES ARE WITHIN QC REQUIREMENTS RELATIVE TO THE RECOVERIES OF TOLUENE-d8, BFB. AND 1,2-DICHLOROETHANE-d4.

REVIEWED BY [redacted]

PHONE

DATE 9/12/88

DATA QUALIFIERS

Contractor: VERSAR

Case #10220/3919E

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

(6) MATRIX SPIKE/MATRIX SPIKE DUPLICATE

ALL VOA MS AND MSD'S OF SAMPLE EW-301 ARE WITHIN REQUIRED LIMITS FOR % REC AS WELL AS RPD'S.

(7) FIELD DUPLICATES

FIELD DUPLICATES WERE RUN AND THE RESULT (EW 302 AND EW 303) COMPARED TO WITHIN THE REQUIRED LIMITS.

(8) INTERNAL STANDARDS PERFORMANCE

INTERNAL STANDARDS PERFORMANCE DATA WAS INCLUDED AND THE IS AREAS AND RT'S WERE WITHIN THE TEST LIMITS.

(9) COMPOUND IDENTIFICATION

THE GC/MS WAS USED PROPERLY TO IDENTIFY THE COMPOUNDS OF INTEREST IN THE CASE.

(10) COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS.

COMPOUND QUANTITATION WAS CARRIED OUT PROPERLY ACCORDING TO THE S.O.W. THE DILUTION NECESSARY FOR EW-304 WAS EXTRAPOLATED TO THE CORRECT VAL[redacted]

REVIEWED BY [redacted]

PHONE

DATE 9/12/89.

DATA QUALIFIERS

Contractor: VERSAR

Case #10220/3919E

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

NO DETECTION LIMITS WERE INCLUDED IN THE CASE.

(10) SYSTEM PERFORMANCE

THE GC/MS WAS RUN PROPERLY AND THE CHROMATOGRAPHIC RESULTS SUBSTANTIATE THE DATA OBTAINED.

(12) OTHER CASE SPECIFIC PROBLEMS

SURROGATE STANDARDS ARE TO BE SPIKED AT 50 PPB ; MATRIX SPIKE/ MATRIX SPIKE DUPLICATES ARE TO BE DONE AT 20 PPb.

REVIEWED BY [redacted]

PHONE

DATE 9/12/88.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

CASE/SAS # 10220/3919E CONTRACTOR VERSAR

Instrument # Y	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/24/88														
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane															
Bromomethane															
Vinyl Chloride															
Chloroethane															
Methylene Chloride															
Acetone															
Carbon Disulfide															
1,1-Dichloroethane															
1,1-Dichloroethene															
Trans-1,2-Dichloroethene															
Chloroform															
2-Butanone	0.026	39.5	J/R												
1,2-Dichloroethane															
1,1,1-Trichloroethane															
Carbon Tetrachloride															
Vinyl Acetate															
Bromodichloromethane															
1,2-Dichloropropane															
Trans-1,3-Dichloropropene															
Trichloroethene															
Dibromochloromethane															
1,1,2-Trichloroethane															
Benzene															
cis-1,3-Dichloropropene															
2-Chloroethylvinylether															
Bromoform	0.151	9.1	J												
4-Methyl-2-Pentanone															
2-Hexanone															
Tetrachloroethene															
1,1,2,2-Tetrachloroethane															
Toluene															
Chlorobenzene															
Ethylbenzene															
Styrene															
m-Xylene															
o/p-Xylene															

AFFECTED SAMPLES:

VBLK 10
EW 302
EW 303
EW 305
EW 301
EW 301 MS
EW 301 MSD
EW304

Reviewer's Initials/Date: 9/12/88 RK

* These flags should be applied to the analytes on the sample data sheets.

Case: 10220 SAS 39196

Contractor: VERSAR

TENTATIVELY IDENTIFIED COMPOUNDS
MATCH ASSESSMENT

NOTE: Reviewer should note directly on Organic Analysis Data Sheet (OADS) those matches that in his opinion (based on contract criteria) are unreasonable.

CRITERIA

(1) Relative intensities of major ions (>10%) reference spectrum should be present in the sample spectrum.

(2) Relative intensities of major ions in sample spectrum should agree to within ± 20% of reference spectrum intensities.

(3) Molecular ions present in reference spectrum should be present in sample spectrum.

(4) Ions present in sample spectrum, but not in reference spectrum should be reviewed for possible background contamination or presence of coeluting interferences.

(5) Ions present in reference spectrum, but not in the sample spectrum should be reviewed for possible subtraction from the sample spectrum because of background contamination or coeluting interferences.

(6) If, in the reviewer's opinion, no valid identification can be made the compound should be labelled as "unknown" and the initials and date of the reviewer placed on the OADS.

Robert Katzen 9/12/84

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW301

Lab Name: Versar Contract:

Lab Code: Versar Case No.: 10220 SAS No.: 3919E SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 55647

Sample wt/vol: 25 (g/ml) ML Lab File ID: Y2442

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 100 Date Analyzed: 08/29/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	1	U
67-64-1	Acetone	3.4	
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1.3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
107-02-8	Acrolein	100	U
107-13-1	Acrylonitrile	50	U

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW301

Lab Name: Versar Contract:

Lab Code: Versar Case No.: 10220 SAS No.: 3919E SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 55647

Sample wt/vol: 25 (g/ml) ML Lab File ID: Y2442

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 100 Date Analyzed: 08/29/88

Column: (pack/cap) PACK Dilution Factor: 1

Number TICs found: 1

CONCENTRATION UNITS:
(ug/l or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,	12.5833	2	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW302

Lab Name: Versar Contract:

Lab Code: Versar Case No.: 10220 SAS No.: 3919E SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 55648

Sample wt/vol: 25 (g/ml) ML Lab File ID: Y2438

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 100 Date Analyzed: 08/29/88

Column: (pack/cap) PACK Dilution Factor: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	1.0	~~B~~ U
67-64-1	Acetone	1.9	J
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1.3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
107-02-8	Acrolein	100	U
107-13-1	Acrylonitrile	50	U

BK 9/12/88

FORM I VOA

100026

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW302

Name: Versar Contract:

Lab Code: Versar Case No.: 10220 SAS No.: 3919E SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 55648

Sample wt/vol: 25 (g/ml) ML Lab File ID: Y2438

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 100 Date Analyzed: 08/29/88

Column: (pack/cap) PACK Dilution Factor: 1

Number TICs found: 1

CONCENTRATION UNITS:
(ug/l or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,	12.5833	2	J
2.					
3.					
4.					
5.					
6.					
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FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW303

Lab Name: Versar Contract:

Lab Code: Versar Case No.: 10220 SAS No.: 3919E SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 55649

Sample wt/vol: 25 (g/ml) ML Lab File ID: Y2439

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 100 Date Analyzed: 08/29/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	1.3	~~B~~
67-64-1	Acetone	2.3	
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1.3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
107-02-8	Acrolein	100	U
107-13-1	Acrylonitrile	50	U

RK 9/12/88

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW303

Lab Name: Versar Contract:

Lab Code: Versar Case No.: 10220 SAS No.: 3919E SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 55649

Sample wt/vol: 25 (g/ml) ML Lab File ID: Y2439

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 100 Date Analyzed: 08/29/88

Column: (pack/cap) PACK Dilution Factor: 1

Number TICs found: 1

CONCENTRATION UNITS:
(ug/l or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,	12.5833	3	J
2.					
3.					
4.					
5.					
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FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW304

Lab Name: Versar Contract:

Lab Code: Versar Case No.: 10220 SAS No.: 3919E SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 55650

Sample wt/vol: 0.062 (g/ml) ML Lab File ID: Y2445

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 100 Date Analyzed: 08/29/88

Column: (pack/cap) PACK Dilution Factor: 400

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	800	U
74-83-9	Bromomethane	800	U
75-01-4	Vinyl Chloride	800	U
75-00-3	Chloroethane	800	U
75-09-2	Methylene Chloride	400	U
67-64-1	Acetone	800	U
75-15-0	Carbon Disulfide	400	U
75-35-4	1,1-Dichloroethene	400	U
75-34-3	1,1-Dichloroethane	400	U
540-59-0	1,2-Dichloroethene (total)	400	U
67-66-3	Chloroform	400	U
107-06-2	1,2-Dichloroethane	400	U
78-93-3	2-Butanone	800	U
71-55-6	1,1,1-Trichloroethane	3200	
56-23-5	Carbon Tetrachloride	400	U
108-05-4	Vinyl Acetate	800	U
75-27-4	Bromodichloromethane	400	U
78-87-5	1,2-Dichloropropane	400	U
10061-01-5	cis-1,3-Dichloropropene	400	U
79-01-6	Trichloroethene	400	U
124-48-1	Dibromochloromethane	400	U
79-00-5	1,1,2-Trichloroethane	400	U
71-43-2	Benzene	400	U
10061-02-6	trans-1.3-Dichloropropene	400	U
75-25-2	Bromoform	400	U
108-10-1	4-Methyl-2-Pentanone	800	U
591-78-6	2-Hexanone	800	U
127-18-4	Tetrachloroethene	400	U
79-34-5	1,1,2,2-Tetrachloroethane	400	U
108-88-3	Toluene	400	U
108-90-7	Chlorobenzene	400	U
100-41-4	Ethylbenzene	400	U
100-42-5	Styrene	400	U
1330-20-7	Xylene (total)	400	U
107-02-8	Acrolein	40000	U
107-13-1	Acrylonitrile	20000	U

FORM I VOA

100060

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW304

Lab Name: Versar Contract:

Lab Code: Versar Case No.: 10220 SAS No.: 3919E SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 55650

Sample wt/vol: 0.062 (g/ml) ML Lab File ID: Y2445

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 100 Date Analyzed: 08/29/88

Column: (pack/cap) PACK Dilution Factor: 400

Number TICs found: 0

CONCENTRATION UNITS:
(ug/l or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EW305

Lab Name: Versar Contract:

Lab Code: Versar Case No.: 10220 SAS No.: 3919E SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 55651

Sample wt/vol: 25 (g/ml) ML Lab File ID: Y2441

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 100 Date Analyzed: 08/29/88

Column: (pack/cap) PACK Dilution Factor: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	1.4	~~B~~ U 9/12/88
67-64-1	Acetone	11	
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	4.8	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	2	U
75-27-4	Bromodichloromethane	1.8	
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	0.72	J
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1.3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	1.2	J
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
107-02-8	Acrolein	100	U
107-13-1	Acrylonitrile	50	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW305

Lab Name: Versar Contract:

Lab Code: Versar Case No.: 10220 SAS No.: 3919E SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 55651

Sample wt/vol: 25 (g/ml) ML Lab File ID: Y2441

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 100 Date Analyzed: 08/29/88

Column: (pack/cap) PACK Dilution Factor: 1

Number TICs found: 2

CONCENTRATION UNITS:
(ug/l or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN HYDROCARBON	6.65	1	J
2.	76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,	12.5833	3	J
3.					
4.					
5.					
6.					
7.					
8.					
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FORM I VOA-TIC

AUG 26 1988

CENTRAL REGIONAL LABORATORY SAMPLE DATA REPORT
ORGANICS/INORGANICS

LOG IN DATE: 5/31/88
DUE DATE: 10/27/88

SUPERFUND 5493

THIS FORM IS TO BE USED FOR SAMPLES SENT TO CONTRACT ONLY

CASE NUMBER/SAS No. 10220139196 SITE NAME LaSalle Deitch LABORATORY Versar DATE SHIPPED 8/18/88

SUPERFUND DU NUMBER 4105 EPA RPM or OSC (S.M.S.)/(CES) CERCLIS NUMBER IND980792162 PAGE 1 OF 1

ACTIVITY NUMBER C72100

CRL LOG NUMBER	ORGANIC TRAFFIC REPORT NUMBER	INORGANIC TRAFFIC REPORT NUMBER or SAS Packing List No.	WATER OR LIQUIDS: ACID-BASE NEUTRAL CPDS ORGANIC SCAN UG/L TOX17574	VOLATILE ORGANIC ANALYSIS ORGANIC SCAN UG/L TOX17564	WATER POLYCHLORINATED BIPHENYLS UG/L PES 17144	WATER CHLORINATED PESTICIDES UG/L PES17134	TOTAL METALS IN WATER UG/L MET111	WATER CYANIDE UG/L MIN74919	NITRATE/NITRITE MG/L MIN7284	AMMONIA MG/L MIN7294	RESIDUE, FILTERABLE TDS MG/L MIN7362	RESIDUE, NON-FILT TSS MG/L MIN7372			SEDIMENTS or SOILS: ACID-BASE NEUTRAL CPDS ORGANIC SCAN MG/KG TOX215722	VOLATILE ORGANIC ANALYSIS ORGANIC SCAN MG/KG TOX215622	SEDIMENTS POLYCHLORINATED BIPHENYLS MG/KG PES211422	SEDIMENT CHLORINATED PESTICIDES MG/KG 211322	TOTAL METALS MG/KG MET413	CYANIDE MG/KG MIN44930	EP TOXICITY METALS MG/KG	AMMONIA MG/KG MIN42925				
88FS27547	EW301	—		✓	✓																					
88FS27548	EW302	—		✓	✓																					
88FS27D48	EW303	—		✓	✓																					
88FS27549	EW304	—		✓	✓																					
88FS27B04	EW305	—		✓	✓																					

USEPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA, VA 22313
703/557-2490 FTS-557-2490

CASE NO: 10220 | SAS NO: (IF APPLICABLE) 3919E

ORGANIC TRAFFIC REPORT

(FOR CLP USE ONLY)

TYPE OF ACTIVITY (CIRCLE ONE) ①
SUPERFUND—PA SI ESI RIFS RD RA ER
NPL O&M OTHER _____
NON-SUPERFUND—_____PROGRAM

SAMPLE DESCRIPTION
(ENTER IN BOX A)
1. SURFACE WATER
2. GROUND WATER
3. LEACHATE
4. SOIL
5. SEDIMENT
6. OIL (SAS)
7. WASTE (SAS)

REGION NO: IV
SAMPLING COMPANY ② FIT
SAMPLER: (NAME) Steve Skinner

SHIP TO: ③
Versar Inc.
6850 Versar Center
Springfield VA 22151
ATTN: Clay Hamner

SAMPLING DATE: ④
BEGIN: 8/18/88 END: 8/18/88

DATE SHIPPED: 8/19/88 CARRIER: F ⑤
AIRBILL NO: 33814009 5

DATE REC'D: 8/19/88
SDG NO: ⑥
REC'D BY: James T. Kulesk
LABORATORY CONTRACT NO. UNIT PRICE

TRANSFER TO: DATE REC'D: ⑦
REC'D BY: CONTRACT NO./PRICE:

CLP SAMPLE NUMBER (FROM LABELS)	SAMPLE DESCRIPTION (FROM BOX 1) 1 2 3 4 5 6 7 Ⓐ	CONCENTRATION L = LOW/MED. H = HIGH (SAS) Ⓑ	RAS ANALYSIS Ⓒ VOLATILE	BASE/NEUT /ACID	PESTICIDE /PCB's		SPECIAL HANDLING Ⓓ	STATION LOCATION Ⓔ	SAMPLE CONDITION ON RECEIPT Ⓕ	HIGH CONC. PHASES (CHECK) Ⓖ SOLID	WATER—MIS LIQUID	NON WATER—MIS LIQUID
EW 301	2	L	✓					Roswell 1	OK			
EW 302	2	L	✓					Roswell 2				
EW 303	2	L	✓				Duplicate	Duplicate				
EW 304	2	L	✓					Roswell 3				
EW 305	2	L	✓				Blank	Blank				

EPA Form 2075-7 (8-87)

100006

WHITE — SMO COPY PINK — CLIENT COPY WHITE — LAB COPY FOR RETURN TO SMO YELLOW — LAB COPY

Versar INC.

September 06, 1988

I. Narrative
Case 10220 SAS 3919E
Volatile Organic Analysis
USEPA Region V - Curtis Ross
Versar Project 965.37 - Batch 30

This report contains the CLP analytical data for the volatile organic analysis of five (5) water samples contained in Case 10220. The samples, listed below, arrived at Versar on August 19, 1988. This data is being reported on a fifteen day reporting basis as specified in SAS 3919E.

SAMPLE LIST

EW 301
EW 302
EW 303
EW 304
EW 305

////////////////////////////

```
*****************************************************
*              SAS REQUIREMENTS                     *
*                                                   *
*  Report due date is fifteen days after VSTR       *
*  LOW DETECTION LIMIT ANALYSIS                     *
*  25mL purge for VOA water samples                 *
*  SAS only                                         *
*  Acrolein and acrylonitrile added to VOA TCL      *
*****************************************************
```

GC/MS instrument calibration using BFB met contract requirements for volatile analysis. All SPCC and CCC criteria were met for the initial calibration curve. Sample analysis for volatile organics occurred within specified holding times. All GC/MS analyses occurred during the twelve hour period following instrument calibration. Internal standard areas and associated retention times did not deviate outside specified windows.

Volatile surrogate standard recovery values met all specified criteria. One set of matrix spike and matrix spike duplicate (MS/MSD) quality control samples was analyzed. All relative percent difference values and percent recoveries met specified criteria.

Versar INC.

Sample EW304 was screened prior to analysis and determined to require dilution. 1,1,1-trichloroethane was the only target compound detected. Sample EW305 contained numerous chlorinated solvent compounds. Most samples contained at least one non-Target Compound List compound. These were compared to the NBS Mass Spectral Database for identification.

As specified in this SAS task, acrolein and acrylonitrile were added to the Target Compound List. These two additional compounds were not confirmed present in any sample contained in this case of low detection limit water samples.

Please contact Clay Hamner, CLP Project Manager should you require any additional information or have any questions pertaining to the analysis of this case.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature:

Linda E Bock _____ September 06, 1988
Linda E. Bock
GC/MS Data Processing Chemist
Laboratory Operations

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: VERSAR Contract:

Lab Code: VERSAR Case No.:10220 SAS No.:3919E SDG No.:_

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	EW301	97	95	91		0
02	EW302	99	96	107		0
03	EW303	99	97	97		0
04	EW304	97	95	89		0
05	EW305	97	94	92		0
06	VBLK10	98	97	98		0
07	EW301MS	96	94	92		0
08	EW301MSD	96	97	94		0
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		QC LIMITS
S1 (TOL)	= Toluene-d8	(88-110)
S2 (BFB)	= Bromofluorobenzene	(86-115)
S3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM II VOA-1

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: VERSAR Contract:

Lab Code: VERSAR Case No.: 10220 SAS No.:3919E SDG No.:

Matrix Spike - EPA Sample No.:EW301 LOW

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	10	0	8.4	84	61-145
Trichloroethene	10	0	11.3	113	71-120
Benzene	10	0	9.0	90	76-127
Toluene	10	0	11.5	115	76-125
Chlorobenzene	10	0	10.9	109	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	10	8.0	80	5	14	61-145
Trichloroethene	10	11.1	111	2	14	71-120
Benzene	10	9.0	90	0	11	76-127
Toluene	10	11.7	117	2	13	76-125
Chlorobenzene	10	11.2	112	3	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 __ outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III VOA-1

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name:_____VERSAR_____ Contract:_

Lab Code:VERSAR Case No.:10220 SAS No.:_3919E SDG No.:

Lab File ID: __Y2437 Lab Sample ID: ___VBLK10

Date Analyzed: 08/29/88 Time Analyzed: 1221

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EW302	55648	Y2438	1550
02	EW303	55649	Y2439	1643
03	EW305	55651	Y2441	1806
04	EW301	55647	Y2442	1843
05	EW301MS	55647MS	Y2443	1926
06	EW301MSD	55647MSD	Y2444	2003
07	EW304	55650	Y2445	2048
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COMMENTS: _____

FORM IV VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK10

Lab Name: Versar Contract:

Lab Code: Versar Case No.: 10220 SAS No.: 3919E SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: VBLK10

Sample wt/vol: 25 (g/ml) ML Lab File ID: Y2437

Level: (low/med) LOW Date Received:

% Moisture: not dec. 100 Date Analyzed: 08/29/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	1.6	
67-64-1	Acetone	2	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1.3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
107-02-8	Acrolein	100	U
107-13-1	Acrylonitrile	50	U

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK10

Lab Name: Versar Contract:

Lab Code: Versar Case No.: 10220 SAS No.: 3919E SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: VBLK10

Sample wt/vol: 25 (g/ml) ML Lab File ID: Y2437

Level: (low/med) LOW Date Received:

% Moisture: not dec. 100 Date Analyzed: 08/29/88

Column: (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/l or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

CRL Receipt Date 9/13/88 FIT Receipt Date 9/20/88 Review Completed 9/21/88

TO: R Short
FROM: Mary Gzyra
SUBJECT: La Salle Deitch
PAN: IN0646SA (1 hour charged for review) Case # 10270

Sample Description

Organics (VOA, ABN, Pest/PCB)		Inorganics (Metals, Cyanide)	
# 5	Low Soil — VOA	#	Low Soil
	Low Water		Low Water
	Drinking Water		Drinking Water
	Other		Other

Project Data Status XX Completed!!

_____ Incomplete, awaiting _____

FIT Data Review Findings:

CLA detected

Check Data Sheets for Transcription Errors

_____ Compounds were detected in sample(s); see enclosed sheet.

Book No. 2 Page No. 194 Date Sampled 8/18

0759:2

recycled paper

COMPOUND QUALIFIERS	DEFINITION	INTERPRETATION
U	Indicates compound was analyzed for but not detected.	Compound was not detected at or above the CRDL.
J	Indicates an estimated value.	Compound value may be semiquantitative.
UJ	Quantitation limit is estimated due to a quality control (QC) protocol.	Compound was not detected if value is at CRQL, e.g., 10U UJ. If a value is reported with a UJ above CRQL and it is <5x blank concentration (10x for common laboratory artifacts), the compound is detected but may be a laboratory artifact and not attributable to the sample.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/µL in the final extract shall be confirmed by GC/MS.	Compound was confirmed by GC/MS and is quantitative. Use pesticide/PCB listed values.
B	This flag is used when the compound is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	Compound value may be semiquantitative if it is <5x the blank concentration (<10x the blank concentrations for common laboratory artifacts: phthalates, methylene chloride, acetone, toluene, 2-butanone).
E	This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods.	Compound value may be semiquantitative. There should be another analysis with a D qualifier, which is to to be used.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.	Alerts data user to a possible change in the CRQL. Data is quantitative.
A	This flag indicates that a TIC is a suspected aldol-condensation product.	Alerts data user of a laboratory artifact in the TICs only.
R	Results are unusable due to a major violation of QC protocol.	Compound value is not usable.
X	Cannot be confirmed by CLP protocols.	Compound may or may not be present.

ANALYTE QUALIFIERS		DEFINITION	INTERPRETATION
OLD	NEW		
E	E	Estimated or not reported due to interference. See laboratory narrative.	Analyte or element was not detected, or value may be semiquantitative.
S	S	Analysis by Method of Standard Additions.	Value is quantitative.
R	N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semiquantitative.
+	+	Correlation coefficient for standard additions is less than 0.995. See review and laboratory narrative.	Data value may be biased.
[ ]	B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
UJ		DL is estimated because of a QC protocol. DL is possibly above or below CRDL.	Compound or element was not detected.
J		Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
U	U	Compound was analyzed for but not detected.	Compound was not detected at or above the CRDL.
	M	Duplicate injection precision not met.	Value may be semiquantitative.
	W	Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.
	R	Results are unusable due to a major violation of QC protocols.	Analyte value is not usable.

Source: Ecology and Environment, Inc. 1988.

Table 4-_
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED _____ SAMPLES

La Salle Lleitch #10220

2070-13				Sample Collection Information and Parameters	Sample Number											
Physical State*	Waste Characteristics**	Category***	SI Memo		_1	_2	_3	_4	_5	_6	_7	_8	_9	_10	_11	_12
				Date												
				Time												
				Organic Traffic Report Number												
				Inorganic Traffic Report Number												
				Temperature (°C)												
				Specific Conductivity (µmhos)												
				pH												
				Compound Detected (values in > µg/L or µg/kg)												
				Volatile Organics	EAV 26	27	28	29	30							
Gas	A,D,G,I	OCC	HH	chloromethane												
Gas	A,D,G,I	OCC	HH	bromomethane												
Gas	A,D,G,I	OCC	HH	vinyl chloride												
Gas	A,D,G,I	OCC	HH	chloroethane												
Liquid	A,D,H,I	SOL	HH,CLA	methylene chloride												
Liquid	E,H,I,A	SOL	K,CLA	acetone												
Liquid	A,H,I	SOL	SH	carbon disulfide												
Liquid	A,D,G,I	SOL	HH	1,1-dichloroethene												
Liquid	A,D,H,G	SOL	HH	1,1-dichloroethane												
Liquid	A,D,G	SOL	HH	1,2-dichloroethene (total)												
Liquid	A,D	SOL	HH	chloroform												
Liquid	A,D,G	SOL	HH	1,2-dichloroethane												
Liquid	A,E,G	SOL	K,CLA	2-butanone (MEK)												
Liquid	A,D	SOL	HH	1,1,1-trichloroethane												
Liquid	A,D	SOL	HH	carbon tetrachloride												
Liquid	A,D,G	SOL	HYD	vinyl acetate												
Liquid	A,D	OCC	HH	bromodichloromethane												
Liquid	A,D,G	SOL	HH	1,2-dichloropropane												
Liquid	A,D,G	SOL	HH	cis-1,3-dichloropropene												
Liquid	A,D,G,B	SOL	HH	trichloroethene												
Liquid	A,D	OCC	HH	dibromochloromethane												
Liquid	A,D	SOL	HH	1,1,2-trichloroethane												
Liquid	A,G	SOL	A	benzene												
Liquid	A,D,G	SOL	HH	trans-1,3-dichloropropene												
Liquid	A,D	SOL	HH,CLA	bromoform												
Liquid	A,E,G	SOL	K,CLA	4-methyl-2-pentanone												
Liquid	A,E,G	SOL	K	2-hexanone												
Liquid	A,D	SOL	HH	tetrachloroethene												
Liquid	A,G,E	SOL	A,CLA	toluene	3 J	1 J		1 J	4 J							
Liquid	A,D,E	SOL	HH	1,1,2,2-tetrachloroethane												
Liquid	A,D,G	SOL	HA	chlorobenzene												
Liquid	A,G	SOL	A	ethylbenzene												
Liquid	A,D,G	OCC	A	styrene												
Liquid	A,G	SOL	A	xylenes (total)	1 J											

* Physical state of pure material, not necessarily the physical state of the waste.

** For Section II of 2070-13.

*** For Section III of 2070-13.

Abbreviations for waste characteristics:

A - Toxic
B - Corrosive
C - Radiative
D - Persistent
E - Soluble
F - Infectious
G - Flammable
H - Ignitable
I - Highly volatile
J - Explosive
K - Reactive
L - Incompatible
M - Not applicable

SI Memo & Category Abbreviations:

A - Aromatic
CLA - Common lab artifact
CSC - Common soil constituent
HA - Halogenated - aromatic
HH - Halogenated - hydrocarbon
HM - Heavy metal
HYD - Hydrocarbon
IOC - Other inorganic compound
K - Ketone
M - Metal (density < 5x water density)
NA - Nitrogen - aromatic
NH - Nitrogen - hydrocarbon
OCC - Other organic compound
P - Phenol
PAH - Polyaromatic hydrocarbon
PCB - Polychlorinated biphenyl
PEST - Pesticide
PH - Phthalate
SH - Sulfur - hydrocarbon
SOL - Solvent

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

9/20

DATE: 9/19/88

SUBJECT: Review of Region V CLP Data
Received for Review on 9-13-88

FROM. Curtis Ross, Director (5SCRL) Patrick J. Chirilla for
Central Regional Laboratory

TO: Data User: FIT

We have reviewed the data for the following case(s).

SITE NAME: LaSalle Deitch, IN SMO Case No. 10220

EPA Data Set No. SF 5493 No. of Samples: 5 D.U./Activity Numbers Y905/C721ZZ

CRL No. 88FS28S42 - S46

SMO Traffic No. EAV26 - 30

CLP Laboratory: CHEMWEST Hrs. Required for Review: 2

Following are our findings:

Five soil samples were received in good condition and were analyzed at low concentration for VOA only by ChemWaste only.
Field blank and duplicate were not included.
CCS summary report was not included.

The reviewer's narrative and data qualifiers are noted in the following pages.

Gerry N. Yamanoki
Weston/ESAT, 9/15/88

( ) Data are acceptable for use.
(✓) Data are acceptable for use with qualifications referenced above. See Data Qualifier sheets and Calibration Outlier forms for flags and additional comments.
( ) Data are preliminary - pending verification by Contractor Laboratory. See Case Summary above.
( ) Data are unacceptable.

cc: Carla Dempsey, CLP Quality Assurance Officer, Analytical Operations Branch
James Petty, Chief Quality Assurance Research, EMSL, Las Vegas

DATA QUALIFIERS

Contractor: CHEMW

Case 10220

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

1. Sample Holding Times:

Soil volatile holding times of SDG-BAV 26 and BAV 26 MS/MSD were late by 2 days from sampling (8/18/88) to analysis (8/28/88) in accordance with the 7 day rule of 40CRF136. All pos. results of aromatic compounds are estimated 'J' and neg. results are estimated 'UJ'.

All samples were received on 8/19/88.

2. GC/MS Tuning

GC/MS tuning based on % Relative Abundances of BFB ions were in line with the mass list and with the ion abundance criteria.

3. Calibrations:

Initial and continuing calibration of VOA were evaluated for HSL compound outliers based on SPCC and CCC limits and any found were recorded in the Outlier Form and flagged 'J' for pos. results as estimated and 'R' for non-detects as estimated unusable.

4. Blanks:

VBlk 01 contained the common contaminants methylene chloride, acetone and 2-butanone. In the associated samples shown in Form IV VOA, all the sample fractions contained the 3 common contaminants. These co-contaminants were flagged with 'U' and/or 'CRQL+U' when sample results > and/or < CRQL and < 10X Blk, respectively and 'No Flag' when > 10X Blk, respectively.

Reviewed by: [redacted]

Phone: [redacted]

Date: 9/15/88

DATA QUALIFIERS

Contractor: CHEMW

Case 1022D

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

All TICs were flagged with 'J' and/or 'JB' appropriately.

5. Surrogate % Rec.:
Soil surrogates (Volatiles) of SDG EAV 26 and affiliated Sample's (Blank and MS/MSD) were within its respective QC limits.

6. MS/MSD % Rec. and % RPD:
Soil volatile matrix spike of EAV 26 were within the QC limits of MS/MSD % Recs and % RPDs.

7. Field Blank and Duplicate: Not included in this case.

8. Internal Standard Performances:
Soil volatile internal standard areas and RTs of SDG EAV 26 and affiliated samples were within the upper and lower limits of the 12 hr std's areas and its RT ranges analyzed on pac/cap columns.

9. Compound Quantitations and Reported Detection Limits:
Target compound quantitations were properly reported.
Detection limits were properly adjusted by dilution to reflect CRQL and the results were flagged appropriately.

10. Compound ID:
TICs and TCL compounds were identified using the mass spectral library search method.

Reviewed by: [redacted]

Phone:

Date: 9/15/88

DATA QUALIFIERS

Contractor: CHEMW

Case 1022D

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

11. System Performances:
Baselines of RIC and total ion chromatograms were relatively stable and usesable.

12. Case Assessment:
The data in this case have been reviewed and qualifications have been made where necessary.

Reviewed by: [redacted]

Phone:

Date: 9/14/88

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

CASE/SAS # 10226 CONTRACTOR CHEMW

Instrument # CW4	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/25/88			8/28/88 1620											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane															
Bromomethane															
Vinyl Chloride															
Chloroethane															
Methylene Chloride															
Acetone															
Carbon Disulfide															
1,1-Dichloroethane															
1,1-Dichloroethene															
Trans-1,2-Dichloroethene															
Chloroform															
2-Butanone															
1,2-Dichloroethane															
1,1,1-Trichloroethane															
Carbon Tetrachloride															
Vinyl Acetate															
Bromodichloromethane															
1,2-Dichloropropane															
Trans-1,3-Dichloropropene															
Trichloroethene															
Dibromochloromethane															
1,1,2-Trichloroethane															
Benzene															
cis-1,3-Dichloropropene															
2-Chloroethylvinylether															
Bromoform															
4-Methyl-2-Pentanone															
2-Hexanone															
Tetrachloroethene															
1,1,2,2-Tetrachloroethane															
Toluene															
Chlorobenzene															
Ethylbenzene															
Styrene															
m-Xylene															
o/p-Xylene															

AFFECTED SAMPLES:

V BLK 01
EAV 26
EAV 27
EAV 28
EAV 29
EAV 30
EAV 26 MS
EAV 26 MSD

Reviewer's Initials/Date: T.Y. 9/14/88

* These flags should be applied to the analytes on the sample data sheets.

Case: 10220

Contractor: CHEMW

TENTATIVELY IDENTIFIED COMPOUNDS MATCH ASSESSMENT

NOTE: Reviewer should note directly on Organic Analysis Data Sheet (OADS) those matches that in his opinion (based on contract criteria) are unreasonable.

CRITERIA

(1) Relative intensities of major ions (>10%) reference spectrum should be present in the sample spectrum.

(2) Relative intensities of major ions in sample spectrum should agree to within ± 20% of reference spectrum intensities.

(3) Molecular ions present in reference spectrum should be present in sample spectrum.

(4) Ions present in sample spectrum, but not in reference spectrum should be reviewed for possible background contamination or presence of coeluting interferences.

(5) Ions present in reference spectrum, but not in the sample spectrum should be reviewed for possible subtraction from the sample spectrum because of background contamination or coeluting interferences.

(6) If, in the reviewer's opinion, no valid identification can be made the compound should be labelled as "unknown" and the initials and date of the reviewer placed on the OADS.

Gary N. Yamanaki

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAV26

Lab Name: CHEMWEST LABS Contract: 68-W8-0010

Lab Code: CHEMW Case No.: 10220 SAS No.: _____ SDG No.: EAV26

Matrix: (soil/water) SOIL Lab Sample ID: Z0110

Sample wt/vol: 5.0 (g/mL) G Lab File ID: Z011001VV

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 11 Date Analyzed: 08/28/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	20	~~B~~ U
67-64-1	Acetone	61	~~B~~ U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	35	~~B~~ U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	1	J

M.M. 9/14/88

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAV26

Lab Name: CHEMWEST LABS Contract: 68-W8-0010

Lab Code: CHEMW Case No.: 10220 SAS No.: _____ SDG No.: EAV26

Matrix: (soil/water) SOIL Lab Sample ID: Z0110

Sample wt/vol: 5.0 (g/mL) G Lab File ID: Z011001VV

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 11 Date Analyzed: 08/28/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAV27

Lab Name: CHEMWEST LABS Contract: 68-W8-0010

Lab Code: CHEMW Case No.: 10220 SAS No.: _____ SDG No.: EAV26

Matrix: (soil/water) SOIL Lab Sample ID: Z0111

Sample wt/vol: 5.0 (g/mL) G Lab File ID: Z011101VV

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 5 Date Analyzed: 08/28/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	18	~~B~~ U
67-64-1	Acetone	34	~~B~~ U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	27	~~B~~ U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

T.Y. 9/14/88

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAV27

Lab Name: CHEMWEST LABS Contract: 68-W8-0010

Lab Code: CHEMW Case No.: 10220 SAS No.: _____ SDG No.: EAV26

Matrix: (soil/water) SOIL Lab Sample ID: Z0111

Sample wt/vol: 5.0 (g/mL) G Lab File ID: Z011101VV

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 5 Date Analyzed: 08/28/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAV28

Lab Name: CHEMWEST LABS Contract: 68-W8-0010

Lab Code: CHEMW Case No.: 10220 SAS No.: _____ SDG No.: EAV26

Matrix: (soil/water) SOIL Lab Sample ID: Z0112

Sample wt/vol: 5.1 (g/mL) G Lab File ID: Z011201VV

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 6 Date Analyzed: 08/28/88

Column: (pack/cap) PACK Dilution Factor: 1.02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	16	~~B~~ U
67-64-1	Acetone	56	~~B~~ U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	34	~~B~~ U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

7.4.1
9/14/88

FORM I VOA 1/87 Rev.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAV28

Lab Name: CHEMWEST LABS Contract: 68-W8-0010

Lab Code: CHEMW Case No.: 10220 SAS No.: _____ SDG No.: EAV26

Matrix: (soil/water) SOIL Lab Sample ID: Z0112

Sample wt/vol: 5.1 (g/mL) G Lab File ID: Z011201VV

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 6 Date Analyzed: 08/28/88

Column (pack/cap) PACK Dilution Factor: 1.02

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAV29

Lab Name: CHEMWEST LABS Contract: 68-W8-0010

Lab Code: CHEMW Case No.: 10220 SAS No.: _____ SDG No.: EAV26

Matrix: (soil/water) SOIL Lab Sample ID: Z0113

Sample wt/vol: 5.0 (g/mL) G Lab File ID: Z011301VV

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 5 Date Analyzed: 08/28/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	19	~~B~~ U
67-64-1	Acetone	37	~~B~~ U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	26	~~B~~ U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

YLY 9/14/88

FORM I VOA 1/87 Rev.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAV29

Lab Name: CHEMWEST LABS Contract: 68-W8-0010

Lab Code: CHEMW Case No.: 10220 SAS No.: _____ SDG No.: EAV26

Matrix: (soil/water) SOIL Lab Sample ID: Z0113

Sample wt/vol: 5.0 (g/mL) G Lab File ID: Z011301VV

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 5 Date Analyzed: 08/28/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EAV30

Lab Name: CHEMWEST LABS Contract: 68-W8-0010

Lab Code: CHEMW Case No.: 10220 SAS No.: _____ SDG No.: EAV26

Matrix: (soil/water) SOIL Lab Sample ID: Z0114

Sample wt/vol: 5.0 (g/mL) G Lab File ID: Z011401VV

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 11 Date Analyzed: 08/28/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	24	~~B~~ U
67-64-1	Acetone	47	~~B~~ U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	33	~~B~~ U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	4	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

Y.H. 9/14/88

FORM I VOA 1/87 Rev.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAV30

Lab Name: CHEMWEST LABS Contract: 68-W8-0010

Lab Code: CHEMW Case No.: 10220 SAS No.: _____ SDG No.: EAV26

Matrix: (soil/water) SOIL Lab Sample ID: Z0114

Sample wt/vol: 5.0 (g/mL) G Lab File ID: Z011401VV

Level: (low/med) LOW Date Received: 08/19/88

% Moisture: not dec. 11 Date Analyzed: 08/28/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

CENTRAL REGIONAL LABORATORY SAMPLE DATA REPORT
ORGANICS/INORGANICS
THIS FORM IS TO BE USED FOR SAMPLES SENT TO CONTRACT ONLY

LOG IN DATE: 8/31/88
DUE DATE: 10/27/88

UPCR FUND 5493 AUG 25 1988

CASE NUMBER/SAS No. 10220 SITE NAME LaSalle Ditch LABORATORY Chemwest DATE SHIPPED 8/18/88

SUPERFUND DU NUMBER 4905 EPA RPM or OSC (S.M.S.)/(CES) CERCLIS NUMBER IND980792162 PAGE 1 OF 1

ACTIVITY NUMBER C72100

CRL LOG NUMBER	ORGANIC TRAFFIC REPORT NUMBER or SAS Packing List No.	INORGANIC TRAFFIC REPORT NUMBER	WATER OR LIQUIDS												SEDIMENTS or SOILS										
			ACID-BASE NEUTRAL CPDS ORGANIC SCAN UG/L TOX17574	VOLATILE ORGANIC ANALYSIS ORGANIC SCAN UG/L TOX17564	WATER POLYCHLORINATED BIPHENYLS UG/L PES 17144	WATER CHLORINATED PESTICIDES UG/L PES17134	TOTAL METALS IN WATER UG/L MET111	WATER CYANIDE UG/L MIN74919	NITRATE/NITRITE MG/L MIN7284	AMMONIA MG/L MIN7294	RESIDUE, FILTERABLE TDS MG/L MIN7362	RESIDUE, NON-FILT TSS MG/L MIN7372			ACID-BASE NEUTRAL CPDS ORGANIC SCAN MG/KG TOX215722	VOLATILE ORGANIC ANALYSIS ORGANIC SCAN MG/KG TOX215622	SEDIMENTS POLYCHLORINATED BIPHENYLS MG/KG PES211422	SEDIMENT CHLORINATED PESTICIDES MG/KG 211322	TOTAL METALS MG/KG MET413	CYANIDE MG/KG MIN44930	EP TOXICITY METALS MG/KG	AMMONIA MG/KG MIN42925				
88FS28542	EAV26	—														✓	✓									
88FS28543	EAV27	—														✓	✓									
88FS28544	EAV28	—														✓	✓									
88FS28545	EAV29	—														✓	✓									
88FS28546	EAV30	—														✓	✓									

CASE NO: 10220 (IF APPLICABLE)

ORGANIC REPORT

TYPE OF ACTIVITY (CIRCLE ONE) ①
SUPERFUND—PA SI ESI RIFS RD RA ER NPLD O&M OTHER _____
NON-SUPERFUND—_____ PROGRAM

SAMPLE DESCRIPTION (ENTER IN BOX A)
1. SURFACE WATER 4. SOIL
2. GROUND WATER 5. SEDIMENT
3. LEACHATE 6. OIL (SAS) 7. WASTE (SAS)

REGION NO: V
SAMPLING COMPANY ②: FIT
SAMPLER: (NAME) Steve Skinner

SHIP TO: ③
Chemwest Analytical Labs
600 W. North Market Blvd
Sacramento CA 95834
ATTN: Bill McBenge

SAMPLING DATE: ④
BEGIN: 8/19/88 END: 8/19/88

DATE SHIPPED: 8/19/88 CARRIER: F ⑤
AIRBILL NO: 123466254

DATE REC'D: 8/19/88
SDG NO: ⑥ EAV-26
REC'D BY: BILL McBENGE
Bill McBenge
LABORATORY CONTRACT NO. 68-W8-0010
UNIT PRICE

TRANSFER TO:
DATE REC'D: ⑦
REC'D BY:
CONTRACT NO./PRICE:

Shipment is Complete

CLP SAMPLE NUMBER (FROM LABELS)	Ⓐ SAMPLE DESCRIPTION (FROM BOX 1) 1 2 3 4 5 6 7	Ⓑ CONCENTRATION L = LOW/MED. H = HIGH (SAS)	Ⓒ RAS ANALYSIS: VOLATILE	BASE/NEUT /ACID	PESTICIDE /PCB's		Ⓓ SPECIAL HANDLING	Ⓔ STATION LOCATION	Ⓕ SAMPLE CONDITION ON RECEIPT	Ⓖ HIGH CONC. PHASES (CHECK): SOLID	WATER—MIS LIQUID	NON WATER—MIS LIQUID
EAV 26	4	L	✓				first sample in SDG EAV26	Soil S1	Samples rec'd			
EAV 27	4	L	✓					Soil S2	in good condition.			
EAV 28	4	L	✓					Soil S3	Chain of custody			
EAV 29	4	L	✓					Soil S4	traffic reports			
EAV 30	4	L	✓				last sample in SDG EAV26	Soil S5	& tags rec'd.			
									Documents			
									agree.			

EPA Form 2075-7 (8-87)

006

WHITE — SMO COPY PINK — CLIENT COPY WHITE — LAB COPY FOR RETURN TO SMO YELLOW — LAB COPY

CASE NARRATIVE

This Case Narrative applies to EPA case number 10220 received by CHEMWEST Analytical Laboratory on August 19, 1988, and submitted to EPA by CHEMWEST Analytical Laboratories on September 9, 1988.

The CHEMWEST EPA contract number is 68-W8-0010.

The SDG number for EPA case 10220 is EAV26. The sample numbers within SDG EAV26 are as follows:

SOIL	ANALYSIS
EAV26	V
EAV27	V
EAV28	V
EAV29	V
EAV30	V
EAV26MS	V
EAV26MSD	V

RECEIVED
SEP 12 1988
U.S. EPA CENTRAL
REGIONAL LAB

VOLATILES ANALYSIS

The Method Blank (VBLK01) contained Methylene Chloride, Acetone and 2-Butanone at contract allowable levels. These compounds were also detected in the samples. Toluene and Xylene were the only other target compounds detected at very low levels and were reported with a J value. There are no TIC's to report. All Surrogate and Matrix Spike recoveries were within contractual acceptance ranges.

Release of the data contained in this hardcopy package and in the computer - readable data submitted on floppy diskette has been authorized by the laboratory manager or his designee, as verified by the following signature.

Jill B. Henes Date 9/9/88

Jill B. Henes, Ph.D.
Vice President of Technical Services
CHEMWEST Analytical Laboratories

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMWEST LABS Contract: 68-W8-0010

Lab Code: CHEMW Case No.: 10220 SAS No.: _____ SDG No.: EAV26

Lab File ID: BF40825 BFB Injection Date: 08/25/88

Instrument ID: CW4 BFB Injection Time: 0919

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.7
75	30.0 - 60.0% of mass 95	42.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.7
173	Less than 2.0% of mass 174	0.4 (0.7)1
174	Greater than 50.0% of mass 95	59.0
175	5.0 - 9.0% of mass 174	3.5 (5.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	56.3 (95.4)1
177	5.0 - 9.0% of mass 176	4.3 (7.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	VV40825B	08/25/88	1236
02	VSTD100	VSTD100	VV40825D	08/25/88	1420
03	VSTD150	VSTD150	VV40825E	08/25/88	1451
04	VSTD200	VSTD200	VV40825F	08/25/88	1524
05	VSTD020	VSTD020	VV40825J	08/25/88	2014

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMWEST LABS Contract: 68-W8-0010

Lab Code: CHEMW Case No.: 10220 SAS No.: _____ SDG No.: EAV26

Lab File ID: BF40828 BFB Injection Date: 08/28/88

Instrument ID: CW4 BFB Injection Time: 1300

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.6
75	30.0 - 60.0% of mass 95	51.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.9 (1.7)1
174	Greater than 50.0% of mass 95	51.8
175	5.0 - 9.0% of mass 174	4.0 (7.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	51.5 (99.4)1
177	5.0 - 9.0% of mass 176	3.1 (6.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	VV40828B	08/28/88	1620
02	VBLK01	VVB40828B	VVB40828B	08/28/88	1752
03	EAV26	Z0110	Z011001VV	08/28/88	1845
04	EAV27	Z0111	Z011101VV	08/28/88	1917
05	EAV28	Z0112	Z011201VV	08/28/88	1950
06	EAV29	Z0113	Z011301VV	08/28/88	2023
07	EAV30	Z0114	Z011401VV	08/28/88	2055
08	EAV26MS	Z0110MS	Z011001MSVV	08/28/88	2237
09	EAV26MSD	Z0110MSD	Z011001MSDV	08/28/88	2309

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2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: CHEMWEST LABS Contract: 68-W8-0010

Lab Code: CHEMW Case No.: 10220 SAS No.: _____ SDG No.: EAV26

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	EAV26	102	91	103		0
02	EAV27	96	96	106		0
03	EAV28	98	94	106		0
04	EAV29	95	90	100		0
05	EAV30	106	107	112		0
06	EAV26MS	90	86	99		0
07	EAV26MSD	94	90	101		0
08	VBLK01	98	99	103		0

	QC LIMITS
S1 (TOL) = Toluene-d8	(81-117)
S2 (BFB) = Bromofluorobenzene	(74-121)
S3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMWEST LABS Contract: 68-W8-0010

Lab Code: CHEMW Case No.: 10220 SAS No.: _____ SDG No.: EAV26

Matrix Spike - EPA Sample No.: EAV26 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	56.2	0	61.3	109	59-172
Trichloroethene	56.2	0	62.1	111	62-137
Benzene	56.2	0	62.4	111	66-142
Toluene	56.2	2.84	64.6	110	59-139
Chlorobenzene	56.2	0	60.1	107	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	56.2	60.1	107	2	22	59-172
Trichloroethene	56.2	58.3	104	7	24	62-137
Benzene	56.2	59.1	105	6	21	66-142
Toluene	56.2	62.9	107	3	21	59-139
Chlorobenzene	56.2	59.3	106	1	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: EAV-26 5.03G/5ML
CW-4 6'X1/4" GLASS,60/80 CARBOPACK, 1% SP1000

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: CHEMWEST LABS Contract: 68-W8-0010

Lab Code: CHEMW Case No.: 10220 SAS No.: _____ SDG No.: EAV26

Lab File ID: VVB40828B Lab Sample ID: VVB40828B

Date Analyzed: 08/28/88 Time Analyzed: 1752

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: CW4

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EAV26	Z0110	Z011001VV	1845
02	EAV27	Z0111	Z011101VV	1917
03	EAV28	Z0112	Z011201VV	1950
04	EAV29	Z0113	Z011301VV	2023
05	EAV30	Z0114	Z011401VV	2055
06	EAV26MS	Z0110MS	Z011001MSVV	2237
07	EAV26MSD	Z0110MSD	Z011001MSDV	2309

COMMENTS: VBLK01 5ML
CW-4 6'X1/4" GLASS,60/80 CARBOPACK, 1% SP1000

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: CHEMWEST LABS Contract: 68-W8-0010

Lab Code: CHEMW Case No.: 10220 SAS No.: _____ SDG No.: EAV26

Matrix: (soil/water) SOIL Lab Sample ID: VVB40828B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VVB40828B

Level: (low/med) LOW Date Received: 08/28/88

% Moisture: not dec. 0 Date Analyzed: 08/28/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	12	
67-64-1	Acetone	34	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	34	
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: CHEMWEST LABS Contract: 68-W8-0010

Lab Code: CHEMW Case No.: 10220 SAS No.: _____ SDG No.: EAV26

Matrix: (soil/water) SOIL Lab Sample ID: VVB40828B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VVB40828B

Level: (low/med) LOW Date Received: 08/28/88

% Moisture: not dec. 0 Date Analyzed: 08/28/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q