

August 13, 1997

Mr. David Edwards  
Wisconsin Department of Natural Resources  
N7725 Highway 28  
Horicon, WI 53032

RE: Site Investigations  
Matthews Property and Dave's Salvage Property

Dear Mr. Edwards:

Enclosed is a documentation report for the site investigations at the Matthews Property and the Dave's Salvage Property in Columbia County, Wisconsin. Included in this report are a project background, a summary of the site investigative activities, site maps, photographs, inventory logs, and the results of the laboratory analyses.

Project Background

The Wisconsin Department of Natural Resources (WDNR) retained RMT, Inc. (RMT), to investigate two properties located in Columbia County, Wisconsin (Figure 1), that were suspected of containing disposed paint pails. The investigation was necessary to gather information concerning the nature and contents of the disposed material supposedly located at these sites.

RMT subcontracted with Remediation and Management Services Corporation (RAMSCO), from Carol Stream, Illinois, to perform construction services for the investigation and with EnChem, Inc. (EnChem), to perform the laboratory analysis services. The field investigations were completed on July 8, 1997.

Matthews Property Investigation

On July 8, 1997, representatives of the WDNR, RMT, and RAMSCO met just outside the Matthews Property. The attending representatives were Mr. Dave Edwards and Mr. John Welke of the WDNR, Mr. Michael Rouse of RAMSCO, and Mr. Jim Madden of RMT. The WDNR conducted a brief meeting outlining the background and scope of the investigation. Then, using a special investigation warrant, the group entered the Matthews Property.

The suspected disposal area was located along an embankment in the northwestern corner of the property (Figure 2). A visual observation of the suspected areas showed a soil embankment consisting of silty sand surface soil. Photographic documentation of the site activities at the Matthews property is presented in Attachment 1.



RMT, INC. — MADISON, WI  
744 HEARTLAND TRAIL - 53717-1934  
P.O. Box 8923 - 53708-8923  
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A test pit was excavated into the suspected area of the embankment, using a rubber-tired backhoe. The excavation uncovered several 5-gallon metal pails with the lids intact, as well as additional debris. The pails were initially discovered buried at a depth of approximately 1 to 3 feet below ground surface (bgs). The pails were removed from the excavation and placed on a staging area constructed of plastic visquene. Very strong odors, resembling paint-related solvents were emanating from the excavation. The test pit excavation continued to a depth of approximately 5 to 6 feet bgs, and many additional pails were unearthed and removed.

Observation of the sidewalls and base of the excavation showed that apparent native soil (silty sand soil with cobbles and boulders) was encountered approximately 15 feet northwest from the edge of the embankment. The sidewalls of the excavation to the northeast and southwest showed many additional exposed pails intermixed with the soil. The additional pails were left in-place.

Most of the pails uncovered had a capacity of 5 gallons and tabbed lids; however, several smaller pails were observed (estimated to be 3 gallons in capacity). Some of the pails were found in good condition and some were corroded, crushed, and damaged. During removal, some of the pails ruptured. An estimated 50 pails were removed from the test pit excavation during the investigation.

Randomly, some of the lids of the pails were removed, and the pails were inventoried (by size, color, contents, etc.). Observations of the contents of each pail showed variously colored (green, white, purple, greenish-black, gray) liquids, sludges, and solids, which were thought to be similar to paint. Copies of the inventory logs are presented in Attachment 3.

Both the WDNR and RMT collected independent samples of the contents. RMT collected a total of five samples from the Matthews property investigation using clean sample bottles and equipment. The samples bottles were supplied by EnChem, and the sampling equipment was supplied by RMT. The samples were collected in the appropriate sample jars, preserved, and placed on ice in the shipping containers (coolers). When the sampling was completed, the samples were transported to EnChem, using chain-of-custody documentation. Copies of the chain-of-custody documentation are presented in Attachment 4.

The opened pails were re-sealed and secured beneath the plastic visquene. Some soil was placed on top of the plastic to hold it in place. The excavation was backfilled and leveled, using the existing soil. At approximately 12:25 p.m., the group left the Matthews property and proceeded directly to Dave's Salvage.



Dave's Salvage Property Investigation

On July 8, 1997, using a site access agreement signed by the property owner, the group entered Dave's Salvage property to perform the investigation. The suspected disposal area was located along a ravine on the western side of the salvage yard (Figure 3). A visual observation of the suspected area showed a ravine formed by large, exposed rocks and boulders, and overgrown with vegetation. The suspected area was identified by a pile of debris, which included corroded drums, pails, etc., at the base of the ravine. Photographic documentation of the site activities at the Dave's Salvage property is presented in Attachment 2.

The backhoe was used to sort through the debris. Several 5-gallon metal pails with their lids intact were found. The pails were lifted from the area and were placed on a plastic visquene staging area. Several other pails were observed in the debris pile; however, they were left in-place. Because of the presence of large boulders and cobbles, it did not appear that the pails were buried in this location; however, an extensive test pit investigation was not performed.

Randomly, some of the pails in the staging area were opened and were inventoried (by size, color, contents, etc.). Observations of the contents of each pail showed variously colored (purple, blue, white) liquids, sludges, and solids, which again appeared to be paint related.

RMT collected samples of the contents of some of the pails. RMT collected a total of three samples from the Matthews property investigation. Again, the samples were collected in the appropriate sample jars, preserved, and placed on ice and were shipped to EnChem. Upon completion of the sampling, the opened pails were re-sealed and secured beneath the plastic visquene.

At the request of the WDNR, two additional test pits were performed at separate locations in the salvage yard. Test pit #1 was located south of the suspected area, in an excavated pit area. Using the backhoe, soil was excavated to a depth of approximately 2 feet bgs. Observation of the excavation showed reddish-brown sand. No samples were collected, and the pit was backfilled. Test pit #2 was located on the western side of the salvage yard, in another excavated pit area. The soil was excavated to a depth of approximately 2 feet bgs. Observation showed brown to tan sand from 0 to 1 foot bgs, and tan sand from 1 to 2 feet bgs. A slight petroleum odor was observed in the soil from 0 to 1 foot bgs; however, no samples were collected, and the excavation was backfilled. The approximate test pit locations are shown on Figure 3.



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At approximately 2:45 p.m., the work at Dave's Salvage property was completed and the group began to demobilize off the property.

### Laboratory Analysis Results

Representative samples of the pails' contents were submitted to EnChem for laboratory analysis. The samples were analyzed for volatile organic compounds (VOCs), compositional metals, leachable metals (using the Toxic Compound Leaching Procedure [TCLP]), and flashpoint. Copies of the laboratory data sheets are presented in Attachment 3.

The results of the VOC analyses showed exceedingly high concentrations of a number of VOCs. Detected VOCs in the samples that were analyzed are summarized in Table 1. Eight VOC constituents were detected. These constituents include common constituents in paint and paint-related solvents, including xylenes, toluene, ethylbenzene, and acetone. These constituents were detected in nearly all of the samples, at concentrations up to more than 10,000 mg/kg compositional.

Four other VOCs (2-hexanone, 4-methyl-2-pentanone, styrene, and tetrachloroethene) were detected less frequently, but appeared in one or more of the samples. The presence of tetrachloroethene (PCE) at a concentration of 28 mg/kg in one sample is notable, because it is not a typical paint-related constituent, and because it is a constituent used to determine whether a waste is characteristically hazardous (Table 1, 40 CFR 261.24). Although none of the samples were analyzed for organics via the TCLP, the high concentration of the PCE in the sample (28 mg/kg) indicates the strong possibility that the sample could fail the TCLP test for PCE. It has commonly been used as a degreasing solvent, and its presence points to the possibility of other substances that may have been disposed at the sites that are not paint related.

Due to the high concentrations, detection limits for VOCs were elevated substantially above typical values, and were in excess of 10 mg/kg for a number of compounds. Therefore, it is possible that a number of other VOCs were present in the samples at significant concentrations, but were not detected due to the elevated detection limits.

Metals were analyzed in eight samples for both compositional and TCLP concentrations. The eight RCRA metals were commonly detected in most of the samples with the compositional analyses. However, most of the metals were not detected with the TCLP analyses, and none of the samples exhibited concentrations that exceeded the TCLP criteria for a characteristic hazardous waste. Apparently, the metals present in the samples do not readily leach via the TCLP test.



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Eight samples were tested to determine if they exhibited the ignitability characteristic of hazardous waste. If a sample can ignite at a temperature of less than 140°F, then it is considered a hazardous waste (40 CFR 261.21). As shown in Table 3, six of the eight samples that were tested had a flashpoint of less than 140°F, which is the criterion for a hazardous waste. Therefore, the six samples that failed this test are considered hazardous waste by the ignitability characteristic. All five of the samples collected in Area 1 (the Matthews Property) had flashpoints less than 140°F.

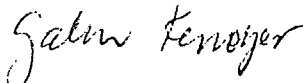
In summary, the eight samples from the two investigation sites are characterized by exceedingly high concentrations of VOCs that are typical paint-related constituents, as well as other VOCs, such as PCE that are probably not paint-related. Six of the eight samples are characteristically hazardous, for the ignitability characteristic.

If you have any questions concerning this documentation, please contact either of us at (608) 831-4444.

Sincerely,



James A. Madden  
Senior Project Coordinator



Galen J. Kenoyer, Ph.D.  
Project Manager

cc: Mr. Ted Amman, WDNR

Attachments

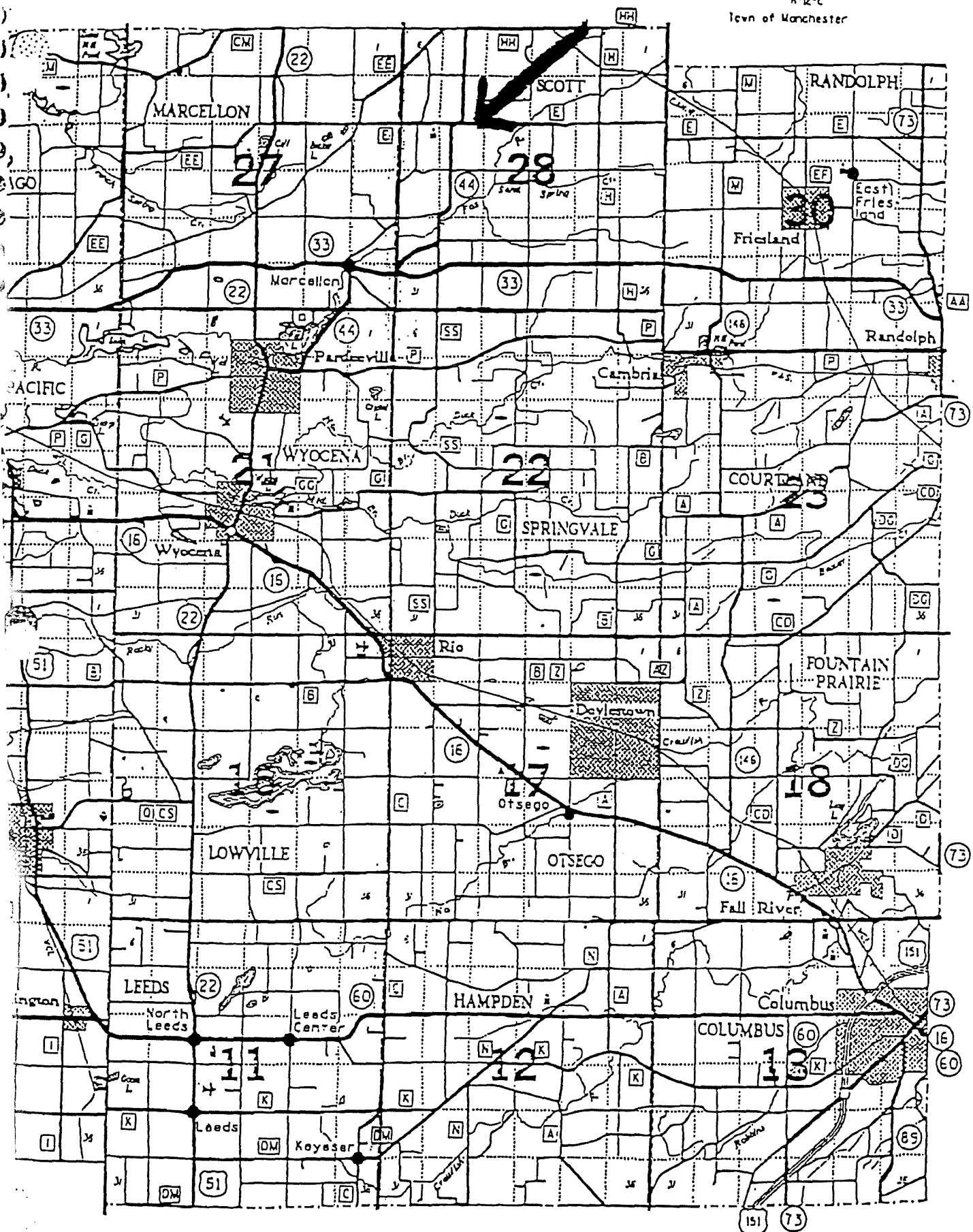


R-10-E  
Town of Buffalo

R-11-E  
Town of Kingston

Site location

R-12-E  
Town of Manchester



DODGE CO.

Town of Fox Lake

T-13-N

T-12-N

Town of Westford

Town of Ceramus

T-11-N

Town of Elba

T-10-N

DODGE CO.

DAKE CO. Town of Windsor R-10-E

Town of Bristol R-11-E

Town of York R-12-E

DAKE CO.

FIGURE 1

CAW

Dave's Salvage  
s. 17, Tn. Scott  
Columbia County

access lane

wooded access lane

EAST PROPERTY  
(MATHEWS)

misc. debris

5-gal. pails  
disposal site

APPROXIMATE LOCATION OF  
TEST PIT INVESTIGATION

mobile home

tires

electrical  
box

abandoned  
landfill

1  
north

- not to scale

- drawn from sketches  
and aerial photos on  
5/1/97 by D. Edwards

FIGURE 2

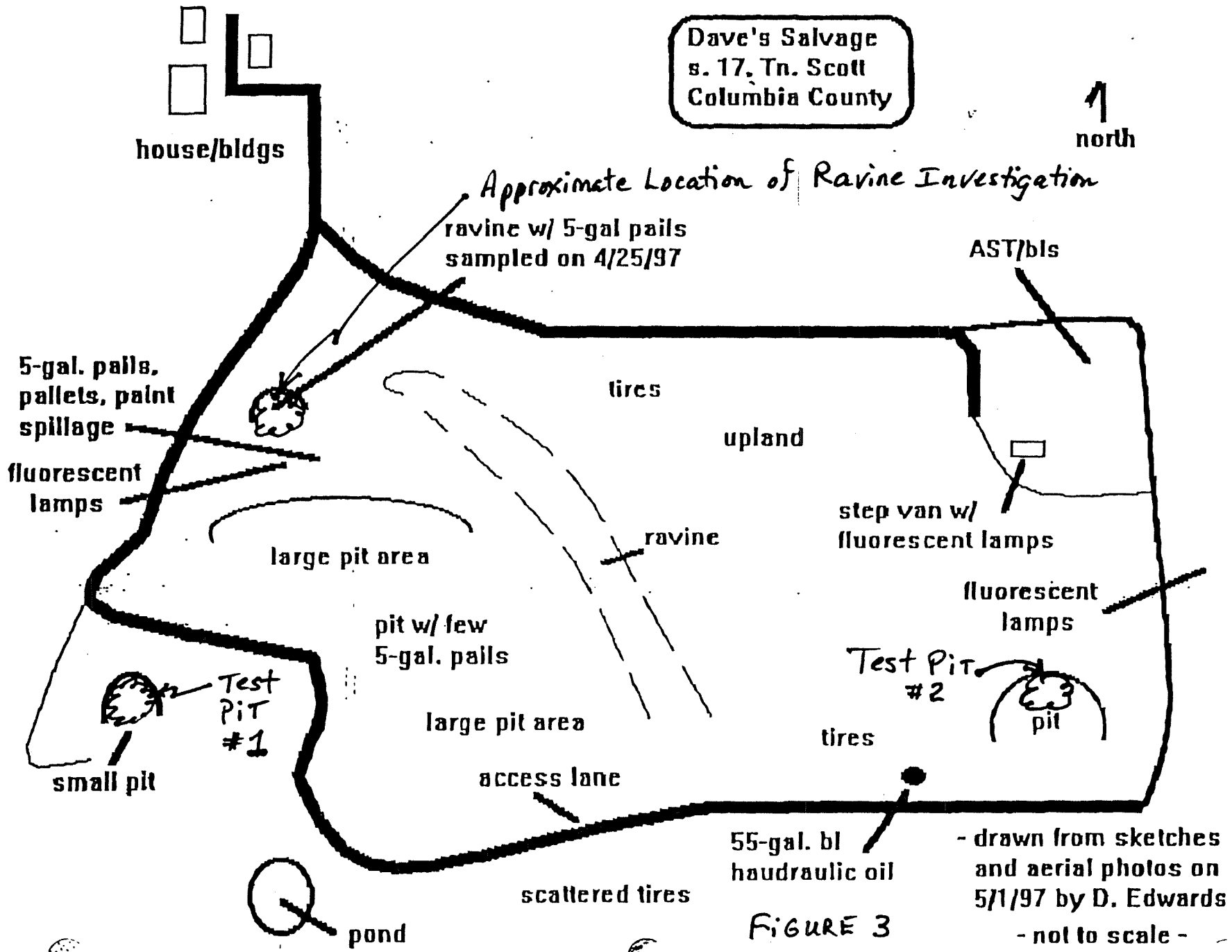


FIGURE 3  
 - drawn from sketches and aerial photos on 5/1/97 by D. Edwards - not to scale -



**Attachment 1**

**Photographic Documentation of the Matthews Property**









Photo 1: Mathews Property; Suspect Area



Photo 2: Stressed Vegetation



Photo 3: Test Pit and Staging Area



Photo 4: Test Pit Sidewall







Photo 5: Discovered Pail

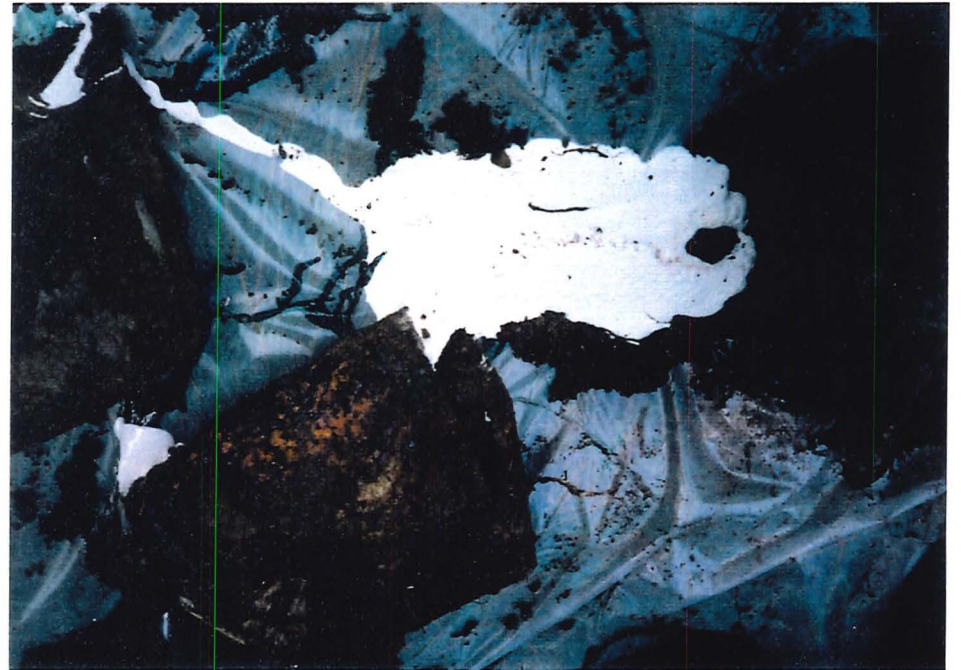


Photo 6: Released Contents



Photo 7: Ruptured Pail



Photo 8: Staged Pails







Photo 9: Opening Pails



Photo 10: Pail Contents



Photo 11: Opened Pails



Photo 12: Staged Pails





**Attachment 2**

**Photographic Documentation of the Dave's Salvage Property**

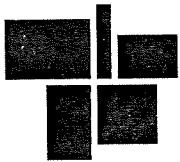








Photo 1: Dave's Salvage; Suspect Area



Photo 2: Debris Pile



Photo 3: Sorting Debris



Photo 4: Sorting Debris







Photo 5: Ruptured Pail



Photo 6: Staged Pails



Photo 7: Opened Pails



Photo 8: Staged Pails







Photo 9: Test Pit #1



Photo 10: Test Pit #1



Photo 11: Test Pit #2

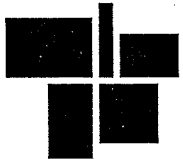


Photo 12: Test Pit #2





**Attachment 3**  
**Inventory Logs**



RMT DRUM INVENTORY FORM

Project No: #4389.01 Client: WDNR Date: 7/8/97

Project: COLUMBIA COUNTY (MATTHEWS PROPERTY)

DRUM NO: #1

Drum Size:

- 0 unknown
- 1 55 gal.
- 2 30 gal.
- 3 other  5-GAL
- specify

Drum Opening:

- 0 unknown
- 1 ring top
- 2 closed top
- 3 open top
- 4 other  (TABS)
- specify

Drum Type:

- 0 unknown
- 1 metal
- 2 plastic
- 3 fiber
- 4 glass
- 5 other
- specify

Drum Color: PRI SEC

- 0 unknown
- 1 cream
- 2 clear
- 3 black
- 4 white
- 5 red
- 6 green
- 7 blue
- 8 brown
- 9 pink
- 10 orange
- 11 yellow
- 12 gray
- 13 purple
- 14 amber
- 15 green-blue

Drum Contents Color:

- PRI SEC
- 0 unknown
- 1 cream
- 2 clear
- 3 black
- 4 white
- 5 red
- 6 green
- 7 blue
- 8 brown
- 9 pink
- 10 orange
- 11 yellow
- 12 gray
- 13 purple
- 14 amber
- 15 green-blue

Drum Condition:

- 0 unknown
- 1 good
- 2 fair
- 3 poor

Drum Marking Keywords:

- #1 NONE
- #2 \_\_\_\_\_
- #3 \_\_\_\_\_

Drum Contents State:

- PRI SEC
- 0 unknown
- 1 solid
- 2 liquid
- 3 sludge
- 4 gas
- 5 trash
- 6 dirt
- 7 gel

Drum Content Amount:

- 0 unknown
- 1 full
- 2 part
- 3 empty

Chemical Analysis:

- |                | YES                      | NO                           |
|----------------|--------------------------|------------------------------|
| radiation      | <input type="checkbox"/> | <input type="checkbox"/>     |
| ignitable      | <input type="checkbox"/> | <input type="checkbox"/>     |
| water reactive | <input type="checkbox"/> | <input type="checkbox"/>     |
| cyanide        | <input type="checkbox"/> | <input type="checkbox"/>     |
| oxidizer       | <input type="checkbox"/> | <input type="checkbox"/>     |
| organic vapor  | <input type="checkbox"/> | <input type="checkbox"/> ppm |
| pH             | <input type="checkbox"/> | <input type="checkbox"/>     |

Real-time Instrument Readings

- Colorimetric tube \_\_\_\_\_
- Radiation \_\_\_\_\_
- PID \_\_\_\_\_
- FID \_\_\_\_\_

Source: EPA Region VII  
Emergency Planning and  
Response Branch

RMT DRUM INVENTORY FORM

Project No: #4389.01 Client: WDNR Date: 7/9/97

Project: COLUMBIA County (MATTHEWS PROPERTY)

DRUM NO: #2

Drum Size:

- 0 unknown
1 55 gal.
2 30 gal.
3 other specify 56 gallon

Drum Contents Color:

- PRI SEC
0 unknown
1 cream
2 clear
3 black
4 white
5 red
6 green
7 blue
8 brown
9 pink
10 orange
11 yellow
12 gray
13 purple
14 amber
15 green-blue

Drum Content Amount:

- 0 unknown
1 full
2 part
3 empty

Drum Opening:

- 0 unknown
1 ring top
2 closed top
3 open top
4 other specify (TASS)

Chemical Analysis:

- radiation YES NO
ignitable
water reactive
cyanide
oxidizer
organic vapor ppm
pH

Drum Type:

- 0 unknown
1 metal
2 plastic
3 fiber
4 glass
5 other specify

Drum Condition:

- 0 unknown
1 good
2 fair
3 poor

Real-time Instrument Readings

- Colorimetric tube
Radiation
PID
FID

Drum Color: PRI SEC

- 0 unknown
1 cream
2 clear
3 black
4 white
5 red
6 green
7 blue
8 brown
9 pink
10 orange
11 yellow
12 gray
13 purple
14 amber
15 green-blue

Drum Marking Keywords:

- #1 NONE
#2
#3

Drum Contents State:

- PRI SEC
0 unknown
1 solid
2 liquid
3 sludge
4 gas
5 trash
6 dirt
7 gel

Source: EPA Region VII Emergency Planning and Response Branch

RMT DRUM INVENTORY FORM

Project No: #4389.01 Client: WDNR Date: 7/8/97

Project: COLUMBIA COUNTY (MATTHEWS PROPERTY)

DRUM NO: #3

Drum Size:

- 0 unknown
1 55 gal.
2 30 gal.
3 other (checked)
specify 5-gallon

Drum Opening:

- 0 unknown
1 ring top
2 closed top
3 open top
4 other (checked)
specify (TASS)

Drum Type:

- 0 unknown
1 metal (checked)
2 plastic
3 fiber
4 glass
5 other
specify

Drum Color: PRI SEC

- 0 unknown
1 cream
2 clear
3 black (checked)
4 white
5 red
6 green (checked)
7 blue
8 brown
9 pink
10 orange
11 yellow
12 gray
13 purple
14 amber
15 green-blue

Drum Contents Color:

- PRI SEC
0 unknown
1 cream
2 clear
3 black (checked)
4 white
5 red
6 green (checked)
7 blue
8 brown
9 pink
10 orange
11 yellow
12 gray
13 purple
14 amber
15 green-blue

Drum Condition:

- 0 unknown
1 good (checked)
2 fair
3 poor

Drum Marking Keywords:

- #1
#2
#3

Drum Contents State:

- PRI SEC
0 unknown
1 solid
2 liquid (checked)
3 sludge (checked)
4 gas
5 trash
6 dirt
7 gel

Drum Content Amount:

- 0 unknown
1 full (checked)
2 part
3 empty

Chemical Analysis:

Table with columns YES NO and rows radiation, ignitable, water reactive, cyanide, oxidizer, organic vapor ppm, pH.

Real-time Instrument Readings

- Colorimetric tube
Radiation
PID
FID

Source: EPA Region VII Emergency Planning and Response Branch

RMT DRUM INVENTORY FORM

Project No: #4389.01 Client: WDNR Date: 7/0/97

Project: Columbia County (Matthews Property)

DRUM NO: #4

Drum Size:

- 0 unknown
1 55 gal.
2 30 gal.
3 other specify (3-gallon)

Drum Contents Color:

- PRI SEC
0 unknown
1 cream
2 clear
3 black
4 white
5 red
6 green
7 blue
8 brown
9 pink
10 orange
11 yellow
12 gray
13 purple
14 amber
15 green-blue

Drum Content Amount:

- 0 unknown
1 full
2 part
3 empty

Drum Opening:

- 0 unknown
1 ring top
2 closed top
3 open top
4 other specify

Chemical Analysis:

- YES NO
radiation
ignitable
water reactive
cyanide
oxidizer
organic vapor ppm
pH

Drum Type:

- 0 unknown
1 metal
2 plastic
3 fiber
4 glass
5 other specify

Drum Condition:

- 0 unknown
1 good
2 fair
3 poor

Real-time Instrument Readings

- Colorimetric tube
Radiation
PID
FID

Drum Color: PRI SEC

- 0 unknown
1 cream
2 clear
3 black
4 white
5 red
6 green
7 blue
8 brown
9 pink
10 orange
11 yellow
12 gray
13 purple
14 amber
15 green-blue

Drum Marking Keywords:

- #1
#2
#3

Drum Contents State:

- PRI SEC
0 unknown
1 solid
2 liquid
3 sludge
4 gas
5 trash
6 dirt
7 gel

Source: EPA Region VII Emergency Planning and Response Branch

RMT DRUM INVENTORY FORM

Project No: #4389.01 Client: WDNR Date: 7/8/97

Project: Columbia County (Matthews Property)

DRUM NO: #5

Drum Size:

- 0 unknown \_\_\_
- 1 55 gal. \_\_\_
- 2 30 gal. \_\_\_
- 3 other  \_\_\_
- specify 5-gallon

Drum Opening:

- 0 unknown \_\_\_
- 1 ring top \_\_\_
- 2 closed top \_\_\_
- 3 open top \_\_\_
- 4 other  \_\_\_
- specify (DABS)

Drum Type:

- 0 unknown \_\_\_
- 1 metal  \_\_\_
- 2 plastic \_\_\_
- 3 fiber \_\_\_
- 4 glass \_\_\_
- 5 other \_\_\_
- specify \_\_\_

Drum Color: PRI SEC

- 0 unknown \_\_\_
- 1 cream \_\_\_
- 2 clear \_\_\_
- 3 black \_\_\_
- 4 white \_\_\_
- 5 red \_\_\_
- 6 green \_\_\_
- 7 blue \_\_\_
- 8 brown  \_\_\_
- 9 pink \_\_\_
- 10 orange \_\_\_
- 11 yellow \_\_\_
- 12 gray  \_\_\_
- 13 purple \_\_\_
- 14 amber \_\_\_
- 15 green-blue \_\_\_

Drum Contents Color:

- PRI SEC
- 0 unknown \_\_\_
  - 1 cream \_\_\_
  - 2 clear \_\_\_
  - 3 black \_\_\_
  - 4 white \_\_\_
  - 5 red \_\_\_
  - 6 green \_\_\_
  - 7 blue \_\_\_
  - 8 brown  \_\_\_
  - 9 pink \_\_\_
  - 10 orange \_\_\_
  - 11 yellow \_\_\_
  - 12 gray  \_\_\_
  - 13 purple \_\_\_
  - 14 amber \_\_\_
  - 15 green-blue \_\_\_

Drum Condition:

- 0 unknown \_\_\_
- 1 good  \_\_\_
- 2 fair \_\_\_
- 3 poor \_\_\_

Drum Marking Keywords:

- #1 \_\_\_\_\_
- #2 \_\_\_\_\_
- #3 \_\_\_\_\_

Drum Contents State:

- PRI SEC
- 0 unknown \_\_\_
  - 1 solid \_\_\_
  - 2 liquid  \_\_\_
  - 3 sludge  \_\_\_
  - 4 gas \_\_\_
  - 5 trash \_\_\_
  - 6 dirt \_\_\_
  - 7 gel \_\_\_

Drum Content Amount:

- 0 unknown \_\_\_
- 1 full  \_\_\_
- 2 part \_\_\_
- 3 empty \_\_\_

Chemical Analysis:

- YES NO
- radiation \_\_\_
  - ignitable \_\_\_
  - water reactive \_\_\_
  - cyanide \_\_\_
  - oxidizer \_\_\_
  - organic vapor \_\_\_ ppm
  - pH \_\_\_

Real-time Instrument Readings

- Colorimetric tube \_\_\_
- Radiation \_\_\_
- PID \_\_\_
- FID \_\_\_

Source: EPA Region VII  
Emergency Planning and  
Response Branch

RMT DRUM INVENTORY FORM

Project No: #4389.01 Client: WDNR Date: 7/8/97

Project: COLUMBIA COUNTY (MATTHEWS PROPERTY)

DRUM NO: #6

Drum Size:

- 0 unknown
- 1 55 gal.
- 2 30 gal.
- 3 other  specify 5-gallon

Drum Opening:

- 0 unknown
- 1 ring top
- 2 closed top
- 3 open top
- 4 other  specify (TABS)

Drum Type:

- 0 unknown
- 1 metal
- 2 plastic
- 3 fiber
- 4 glass
- 5 other  specify

Drum Color: PRI SEC

- 0 unknown
- 1 cream
- 2 clear
- 3 black
- 4 white
- 5 red
- 6 green
- 7 blue
- 8 brown
- 9 pink
- 10 orange
- 11 yellow
- 12 gray
- 13 purple
- 14 amber
- 15 green-blue

Drum Contents Color:

- PRI SEC
- 0 unknown
  - 1 cream
  - 2 clear
  - 3 black
  - 4 white
  - 5 red
  - 6 green
  - 7 blue
  - 8 brown
  - 9 pink
  - 10 orange
  - 11 yellow
  - 12 gray
  - 13 purple
  - 14 amber
  - 15 green-blue

Drum Condition:

- 0 unknown
- 1 good
- 2 fair
- 3 poor

Drum Marking Keywords:

- #1 \_\_\_\_\_
- #2 \_\_\_\_\_
- #3 \_\_\_\_\_

Drum Contents State:

- PRI SEC
- 0 unknown
  - 1 solid
  - 2 liquid
  - 3 sludge
  - 4 gas
  - 5 trash
  - 6 dirt
  - 7 gel

Drum Content Amount:

- 0 unknown
- 1 full
- 2 part
- 3 empty

Chemical Analysis:

- |                | YES                      | NO                       |
|----------------|--------------------------|--------------------------|
| radiation      | <input type="checkbox"/> | <input type="checkbox"/> |
| ignitable      | <input type="checkbox"/> | <input type="checkbox"/> |
| water reactive | <input type="checkbox"/> | <input type="checkbox"/> |
| cyanide        | <input type="checkbox"/> | <input type="checkbox"/> |
| oxidizer       | <input type="checkbox"/> | <input type="checkbox"/> |
| organic vapor  | <input type="checkbox"/> | <input type="checkbox"/> |
| pH             | <input type="checkbox"/> | <input type="checkbox"/> |

Real-time Instrument Readings

- Colorimetric tube
- Radiation
- PID
- FID

Source: EPA Region VII  
Emergency Planning and  
Response Branch

RMT DRUM INVENTORY FORM

Project No: #4389.01 Client: WDNR Date: 7/9/97

Project: COLUMBIA COUNTY (MATTHEW'S PROPERTY)

DRUM NO: #7

Drum Size:

- 0 unknown
- 1 55 gal.
- 2 30 gal.
- 3 other
- specify 5-GALLON

Drum Contents Color:

- PRI SEC
- 0 unknown
- 1 cream
- 2 clear
- 3 black
- 4 white
- 5 red
- 6 green
- 7 blue
- 8 brown
- 9 pink
- 10 orange
- 11 yellow
- 12 gray
- 13 purple
- 14 amber
- 15 green-blue

Drum Content Amount:

- 0 unknown
- 1 full
- 2 part
- 3 empty

Drum Opening:

- 0 unknown
- 1 ring top
- 2 closed top
- 3 open top
- 4 other
- specify TASS

Chemical Analysis:

- |                | YES                      | NO                       |
|----------------|--------------------------|--------------------------|
| radiation      | <input type="checkbox"/> | <input type="checkbox"/> |
| ignitable      | <input type="checkbox"/> | <input type="checkbox"/> |
| water reactive | <input type="checkbox"/> | <input type="checkbox"/> |
| cyanide        | <input type="checkbox"/> | <input type="checkbox"/> |
| oxidizer       | <input type="checkbox"/> | <input type="checkbox"/> |
| organic vapor  | <input type="checkbox"/> | <input type="checkbox"/> |
| pH             | <input type="checkbox"/> | <input type="checkbox"/> |

Drum Type:

- 0 unknown
- 1 metal
- 2 plastic
- 3 fiber
- 4 glass
- 5 other
- specify

Drum Condition:

- 0 unknown
- 1 good
- 2 fair
- 3 poor

Real-time Instrument Readings

- Colorimetric tube
- Radiation
- PID
- FID

Drum Color: PRI SEC

- 0 unknown
- 1 cream
- 2 clear
- 3 black
- 4 white
- 5 red
- 6 green
- 7 blue
- 8 brown
- 9 pink
- 10 orange
- 11 yellow
- 12 gray
- 13 purple
- 14 amber
- 15 green-blue

Drum Marking Keywords:

- #1 \_\_\_\_\_
- #2 \_\_\_\_\_
- #3 \_\_\_\_\_

Drum Contents State:

- PRI SEC
- 0 unknown
- 1 solid
- 2 liquid
- 3 sludge
- 4 gas
- 5 trash
- 6 dirt
- 7 gel

Source: EPA Region VII  
Emergency Planning and  
Response Branch



RMT DRUM INVENTORY FORM

Project No: #4389.01 Client: WDNR Date: 7/2/97

Project: Columbia County (Matthews Property)

DRUM NO: #8

Drum Size:

- 0 unknown
1 55 gal.
2 30 gal.
3 other specify 5-gallon

Drum Contents Color:

- 0 unknown PRI SEC
1 cream
2 clear
3 black
4 white
5 red
6 green
7 blue
8 brown
9 pink
10 orange
11 yellow
12 gray
13 purple
14 amber
15 green-blue

Drum Content Amount:

- 0 unknown
1 full
2 part
3 empty

Drum Opening:

- 0 unknown
1 ring top
2 closed top
3 open top
4 other specify (TASS)

Chemical Analysis:

- radiation YES NO
ignitable
water reactive
cyanide
oxidizer
organic vapor ppm
pH

Drum Type:

- 0 unknown
1 metal
2 plastic
3 fiber
4 glass
5 other specify

Drum Condition:

- 0 unknown
1 good
2 fair
3 poor

Real-time Instrument Readings

- Colorimetric tube
Radiation
PID
FID

Drum Color: PRI SEC

- 0 unknown
1 cream
2 clear
3 black
4 white
5 red
6 green
7 blue
8 brown
9 pink
10 orange
11 yellow
12 gray
13 purple
14 amber
15 green-blue

Drum Marking Keywords:

- #1
#2
#3

Drum Contents State:

- 0 unknown PRI SEC
1 solid
2 liquid
3 sludge
4 gas
5 trash
6 dirt
7 gel

Source: EPA Region VII Emergency Planning and Response Branch

RMT DRUM INVENTORY FORM

Project No: #4389.01 Client: WDNR Date: 7/8/97

Project: Columbia County (Matthews Property)

DRUM NO: BA

Drum Size:

- 0 unknown
1 55 gal.
2 30 gal.
3 other specify (PASS) 5 Gallon

Drum Contents Color:

- PRI SEC
0 unknown
1 cream
2 clear
3 black
4 white
5 red
6 green
7 blue
8 brown
9 pink
10 orange
11 yellow
12 gray
13 purple
14 amber
15 green-blue

Drum Content Amount:

- 0 unknown
1 full
2 part
3 empty

Drum Opening:

- 0 unknown
1 ring top
2 closed top
3 open top
4 other specify (TABS)

Chemical Analysis:

- radiation YES NO
ignitable
water reactive
cyanide
oxidizer
organic vapor ppm
pH

Drum Type:

- 0 unknown
1 metal
2 plastic
3 fiber
4 glass
5 other specify

Drum Condition:

- 0 unknown
1 good
2 fair
3 poor

Real-time Instrument Readings

- Colorimetric tube
Radiation
PID
FID

Drum Color: PRI SEC

- 0 unknown
1 cream
2 clear
3 black
4 white
5 red
6 green
7 blue
8 brown
9 pink
10 orange
11 yellow
12 gray
13 purple
14 amber
15 green-blue

Drum Marking Keywords:

- #1
#2
#3

Drum Contents State:

- PRI SEC
0 unknown
1 solid
2 liquid
3 sludge
4 gas
5 trash
6 dirt
7 gel

Source: EPA Region VII Emergency Planning and Response Branch

RMT DRUM INVENTORY FORM

Project No: #4389.01 Client: WDNR Date: 7/8/77

Project: Columbia County (Matthews Property)

DRUM NO: #9

Drum Size:

- 0 unknown
1 55 gal.
2 30 gal.
3 other (5-gallon)
specify

Drum Contents Color:

- 0 unknown
1 cream
2 clear
3 black
4 white
5 red
6 green
7 blue
8 brown
9 pink
10 orange
11 yellow
12 gray
13 purple
14 amber
15 green-blue

Drum Content Amount:

- 0 unknown
1 full
2 part
3 empty

Drum Opening:

- 0 unknown
1 ring top
2 closed top
3 open top
4 other (PASS)
specify

Chemical Analysis:

- radiation
ignitable
water reactive
cyanide
oxidizer
organic vapor ppm
pH

Drum Type:

- 0 unknown
1 metal
2 plastic
3 fiber
4 glass
5 other
specify

Drum Condition:

- 0 unknown
1 good
2 fair
3 poor

Real-time Instrument Readings

- Colorimetric tube
Radiation
PID
FID

Drum Color: PRI SEC

- 0 unknown
1 cream
2 clear
3 black
4 white
5 red
6 green
7 blue
8 brown
9 pink
10 orange
11 yellow
12 gray
13 purple
14 amber
15 green-blue

Drum Marking Keywords:

- #1
#2
#3

Drum Contents State:

- 0 unknown
1 solid
2 liquid
3 sludge
4 gas
5 trash
6 dirt
7 gel

Source: EPA Region VII Emergency Planning and Response Branch

RMT DRUM INVENTORY FORM

Project No: #4389.01 Client: WDNR Date: 7/10/97

Project: Adams County (mattews Property)

DRUM NO: 9A

Drum Size:

- 0 unknown
1 55 gal.
2 30 gal.
3 other specify 5-gallon

Drum Contents Color:

- 0 unknown
1 cream
2 clear
3 black
4 white
5 red
6 green
7 blue
8 brown
9 pink
10 orange
11 yellow
12 gray
13 purple
14 amber
15 green-blue

Drum Content Amount:

- 0 unknown
1 full
2 part
3 empty

Drum Opening:

- 0 unknown
1 ring top
2 closed top
3 open top
4 other specify TASS

Chemical Analysis:

- radiation
ignitable
water reactive
cyanide
oxidizer
organic vapor
pH

Drum Type:

- 0 unknown
1 metal
2 plastic
3 fiber
4 glass
5 other
specify

Drum Condition:

- 0 unknown
1 good
2 fair
3 poor

Real-time Instrument Readings

- Colorimetric tube
Radiation
PID
FID

Drum Color: PRI SEC

- 0 unknown
1 cream
2 clear
3 black
4 white
5 red
6 green
7 blue
8 brown
9 pink
10 orange
11 yellow
12 gray
13 purple
14 amber
15 green-blue

Drum Marking Keywords:

- #1
#2
#3

Drum Contents State:

- 0 unknown
1 solid
2 liquid
3 sludge
4 gas
5 trash
6 dirt
7 gel

Source: EPA Region VII Emergency Planning and Response Branch

RMT DRUM INVENTORY FORM

Project No: #4389.01 Client: WDNR Date: 7/8/97

Project: DAVIS SALVAGE (COLUMBIA Co)

DRUM NO: X #1 (WDNR #D18)

Drum Size:

- 0 unknown
1 55 gal.
2 30 gal.
3 other (checked)
specify 5-gallon

Drum Contents Color:

- PRI SEC
0 unknown
1 cream
2 clear
3 black
4 white
5 red
6 green
7 blue
8 brown (checked)
9 pink
10 orange
11 yellow
12 gray
13 purple (checked)
14 amber
15 green-blue

Drum Content Amount:

- 0 unknown
1 full
2 part (checked) (3/4)
3 empty

Drum Opening:

- 0 unknown
1 ring top
2 closed top
3 open top
4 other (checked)
specify (TABS)

Chemical Analysis:

- YES NO
radiation
ignitable
water reactive
cyanide
oxidizer
organic vapor ppm
pH

Drum Type:

- 0 unknown
1 metal (checked)
2 plastic
3 fiber
4 glass
5 other
specify

Drum Condition:

- 0 unknown
1 good (checked)
2 fair
3 poor

Real-time Instrument Readings

- Colorimetric tube
Radiation
PID
FID

Drum Color: PRI SEC

- 0 unknown (checked)
1 cream
2 clear
3 black
4 white
5 red
6 green
7 blue
8 brown
9 pink
10 orange
11 yellow
12 gray
13 purple
14 amber
15 green-blue

Drum Marking Keywords:

- #1
#2
#3

Drum Contents State:

- PRI SEC
0 unknown
1 solid
2 liquid
3 sludge (checked)
4 gas
5 trash
6 dirt
7 gel

Source: EPA Region VII Emergency Planning and Response Branch

RMT DRUM INVENTORY FORM

Project No: #4389.01 Client: WDNR Date: 7/2/97

Project: DAVES SALVAGE (COLMSIA Co)

DRUM NO: X #2

Drum Size:

- 0 unknown
- 1 55 gal.
- 2 30 gal.
- 3 other  specify (5-gallon)

Drum Opening:

- 0 unknown
- 1 ring top
- 2 closed top
- 3 open top
- 4 other  specify THS

Drum Type:

- 0 unknown
- 1 metal
- 2 plastic
- 3 fiber
- 4 glass
- 5 other  specify

Drum Color: PRI SEC

- 0 unknown
- 1 cream
- 2 clear
- 3 black
- 4 white
- 5 red
- 6 green
- 7 blue
- 8 brown
- 9 pink
- 10 orange
- 11 yellow
- 12 gray
- 13 purple
- 14 amber
- 15 green-blue

Drum Contents Color:

- PRI SEC
- 0 unknown
- 1 cream
- 2 clear
- 3 black
- 4 white
- 5 red
- 6 green
- 7 blue
- 8 brown
- 9 pink
- 10 orange
- 11 yellow
- 12 gray
- 13 purple
- 14 amber
- 15 green-blue

Drum Condition:

- 0 unknown
- 1 good
- 2 fair
- 3 poor

Drum Marking Keywords:

- #1 \_\_\_\_\_
- #2 \_\_\_\_\_
- #3 \_\_\_\_\_

Drum Contents State:

- PRI SEC
- 0 unknown
- 1 solid
- 2 liquid
- 3 sludge
- 4 gas
- 5 trash
- 6 dirt
- 7 gel

Drum Content Amount:

- 0 unknown
- 1 full
- 2 part
- 3 empty

Chemical Analysis:

- |                | YES                      | NO                       |
|----------------|--------------------------|--------------------------|
| radiation      | <input type="checkbox"/> | <input type="checkbox"/> |
| ignitable      | <input type="checkbox"/> | <input type="checkbox"/> |
| water reactive | <input type="checkbox"/> | <input type="checkbox"/> |
| cyanide        | <input type="checkbox"/> | <input type="checkbox"/> |
| oxidizer       | <input type="checkbox"/> | <input type="checkbox"/> |
| organic vapor  | <input type="checkbox"/> | <input type="checkbox"/> |
| pH             | <input type="checkbox"/> | <input type="checkbox"/> |

Real-time Instrument Readings

- Colorimetric tube
- Radiation
- PID
- FID

Source: EPA Region VII  
Emergency Planning and  
Response Branch

RMT DRUM INVENTORY FORM

Project No: #4389.01 Client: WDNR Date: 7/8/97

Project: DAVE'S SALVAGE (COLUMBIA CO.)

DRUM NO: X #3

Drum Size: Drum Contents Color: Drum Content Amount:

- 0 unknown
1 55 gal.
2 30 gal.
3 other specify (755) 5-GALLON

- PRI SEC
0 unknown
1 cream
2 clear
3 black
4 white
5 red
6 green
7 blue
8 brown
9 pink
10 orange
11 yellow
12 gray
13 purple
14 amber
15 green-blue

- 0 unknown
1 full
2 part
3 empty

Drum Opening:

- 0 unknown
1 ring top
2 closed top
3 open top
4 other specify (755)

Chemical Analysis:

- radiation YES NO
ignitable
water reactive
cyanide
oxidizer
organic vapor ppm
pH

Drum Type:

- 0 unknown
1 metal
2 plastic
3 fiber
4 glass
5 other specify

Drum Condition:

- 0 unknown
1 good
2 fair
3 poor

Real-time Instrument Readings

- Colorimetric tube
Radiation
PID
FID

Drum Color: PRI SEC

- 0 unknown
1 cream
2 clear
3 black
4 white
5 red
6 green
7 blue
8 brown
9 pink
10 orange
11 yellow
12 gray
13 purple
14 amber
15 green-blue

Drum Marking Keywords:

- #1
#2
#3

Drum Contents State:

- PRI SEC
0 unknown
1 solid
2 liquid
3 sludge
4 gas
5 trash
6 dirt
7 gel

Source: EPA Region VII Emergency Planning and Response Branch

**Attachment 4**  
**Laboratory Data**







**Madison Office & Laboratory**  
802 Deming Way  
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1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
414-469-2436 • Fax: 414-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

Project Name : WDNR - COLUMBIA CO

Submitter # : 1000.99

Project Number : 4389.01

Submitter : RMT - MADISON

WI DNR LAB ID : 113138520

Report Date : 7/28/97

Sample No.	Station ID	Collection Date	Sample No.	Station ID	Collection Date
972370-001	PAIL 3 (AREA 1)	7/8/97			
972370-002	PAIL 6 (AREA 1)	7/8/97			
972370-003	PAIL 7 (AREA 1)	7/8/97			
972370-004	PAIL 8 (AREA 1)	7/8/97			
972370-005	PAIL 9 (AREA 1)	7/8/97			
972370-006	PAIL 1 (AREA 2)	7/8/97			
972370-007	PAIL 2 (AREA 2)	7/8/97			
972370-008	PAIL 3 (AREA 2)	7/8/97			
972370-009	TRIP BLANK	7/8/97			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

Eric L. Thomas  
Approval Signature

7/29/97  
Date

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Data Qualifier Sheet

- B(n) Analyte is present in the method blank. If the processes that were applied to the sample were applied to the method blank, the value of the analyte in the method blank would be "n".
- D Analyte value from diluted analysis.
- Q The analyte has been detected between the Limit of Detection(LOD) and limit of Quantitation(LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.



**- Analytical Report -**

Project Name : WDNR - COLUMBIA CO  
 Project Number : 4389.01  
 Lab Sample Number : 972370-009  
 Station ID : TRIP BLANK  
 WI DNR LAB ID : 113138520

Submitter # : 1000.99  
 Submitter : RMT - MADISON  
 Report Date : 7/28/97  
 Collection Date : 7/8/97  
 Matrix Type : BLANK

**Volatile Organic Results**

TARGET COMPOUND LIST - VOLATILES

Prep Method: SW846 5030

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 0.43	0.43	1.4		ug/L		7/17/97	SW846 8260
1,1,2,2-Tetrachloroethane	< 0.48	0.48	1.5		ug/L		7/17/97	SW846 8260
1,1,2-Trichloroethane	< 0.55	0.55	1.8		ug/L		7/17/97	SW846 8260
1,1-Dichloroethane	< 0.41	0.41	1.3		ug/L		7/17/97	SW846 8260
1,1-Dichloroethene	< 0.56	0.56	1.8		ug/L		7/17/97	SW846 8260
1,2-Dichloroethane	< 0.47	0.47	1.5		ug/L		7/17/97	SW846 8260
1,2-Dichloroethene, total	< 1.0	1.0	3.2		ug/L		7/17/97	SW846 8260
1,2-Dichloropropane	< 0.74	0.74	2.4		ug/L		7/17/97	SW846 8260
2-Butanone	< 2.3	2.3	7.3		ug/L		7/17/97	SW846 8260
2-Hexanone	< 0.94	0.94	3.0		ug/L		7/17/97	SW846 8260
4-Methyl-2-pentanone	< 0.59	0.59	1.9		ug/L		7/17/97	SW846 8260
Acetone	6.7	3.3	11		ug/L	Q	7/17/97	SW846 8260
Benzene	< 0.40	0.40	1.3		ug/L		7/17/97	SW846 8260
Bromodichloromethane	< 0.39	0.39	1.2		ug/L		7/17/97	SW846 8260
Bromoform	< 0.28	0.28	0.89		ug/L		7/17/97	SW846 8260
Bromomethane	< 0.96	0.96	3.1		ug/L		7/17/97	SW846 8260
Carbon disulfide	< 0.45	0.45	1.4		ug/L		7/17/97	SW846 8260
Carbon tetrachloride	< 0.43	0.43	1.4		ug/L		7/17/97	SW846 8260
Chlorobenzene	< 0.29	0.29	0.92		ug/L		7/17/97	SW846 8260
Chlorodibromomethane	< 0.25	0.25	0.80		ug/L		7/17/97	SW846 8260
Chloroethane	< 1.1	1.1	3.5		ug/L		7/17/97	SW846 8260
Chloroform	< 0.50	0.50	1.6		ug/L		7/17/97	SW846 8260
Chloromethane	< 0.68	0.68	2.2		ug/L		7/17/97	SW846 8260
cis-1,3-Dichloropropene	< 0.47	0.47	1.5		ug/L		7/17/97	SW846 8260
Ethylbenzene	< 0.40	0.40	1.3		ug/L		7/17/97	SW846 8260
Methylene chloride	< 0.42	0.42	1.3		ug/L		7/17/97	SW846 8260
Styrene	< 0.23	0.23	0.73		ug/L		7/17/97	SW846 8260
Tetrachloroethene	< 0.44	0.44	1.4		ug/L		7/17/97	SW846 8260
Toluene	< 0.32	0.32	1.0		ug/L		7/17/97	SW846 8260
trans-1,3-Dichloropropene	< 0.49	0.49	1.6		ug/L		7/17/97	SW846 8260
Trichloroethene	< 0.38	0.38	1.2		ug/L		7/17/97	SW846 8260
Vinyl chloride	< 0.63	0.63	2.0		ug/L		7/17/97	SW846 8260
Xylene, total	< 1.0	1.0	3.2		ug/L		7/17/97	SW846 8260

# Volatile Organic Results

TARGET COMPOUND LIST - VOLATILES

Prep Method: SW846 5030

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 430	430	1400		ug/kg		7/18/97	SW846 8260
1,1,2,2-Tetrachloroethane	< 480	480	1500		ug/kg		7/18/97	SW846 8260
1,1,2-Trichloroethane	< 550	550	1800		ug/kg		7/18/97	SW846 8260
1,1-Dichloroethane	< 410	410	1300		ug/kg		7/18/97	SW846 8260
1,1-Dichloroethene	< 560	560	1800		ug/kg		7/18/97	SW846 8260
1,2-Dichloroethane	< 470	470	1500		ug/kg		7/18/97	SW846 8260
1,2-Dichloroethene, total	< 1000	1000	3200		ug/kg		7/18/97	SW846 8260
1,2-Dichloropropane	< 740	740	2400		ug/kg		7/18/97	SW846 8260
2-Butanone	< 2300	2300	7300		ug/kg		7/18/97	SW846 8260
2-Hexanone	< 940	940	3000		ug/kg		7/18/97	SW846 8260
4-Methyl-2-pentanone	< 590	590	1900		ug/kg		7/18/97	SW846 8260
Acetone	13000	3300	11000		ug/kg	B(5.5)	7/18/97	SW846 8260
Benzene	< 400	400	1300		ug/kg		7/18/97	SW846 8260
Bromodichloromethane	< 390	390	1200		ug/kg		7/18/97	SW846 8260
Bromoform	< 280	280	890		ug/kg		7/18/97	SW846 8260
Bromomethane	< 960	960	3100		ug/kg		7/18/97	SW846 8260
Carbon disulfide	< 450	450	1400		ug/kg		7/18/97	SW846 8260
Carbon tetrachloride	< 430	430	1400		ug/kg		7/18/97	SW846 8260
Chlorobenzene	< 290	290	920		ug/kg		7/18/97	SW846 8260
Chlorodibromomethane	< 250	250	800		ug/kg		7/18/97	SW846 8260
Chloroethane	< 1100	1100	3500		ug/kg		7/18/97	SW846 8260
Chloroform	< 500	500	1600		ug/kg		7/18/97	SW846 8260
Chloromethane	< 680	680	2200		ug/kg		7/18/97	SW846 8260
cis-1,3-Dichloropropene	< 470	470	1500		ug/kg		7/18/97	SW846 8260
Ethylbenzene	25000	400	1300		ug/kg		7/18/97	SW846 8260
Methylene chloride	< 420	420	1300		ug/kg		7/18/97	SW846 8260
Styrene	< 230	230	730		ug/kg		7/18/97	SW846 8260
Tetrachloroethene	< 440	440	1400		ug/kg		7/18/97	SW846 8260
Toluene	20000	320	1000		ug/kg		7/18/97	SW846 8260
trans-1,3-Dichloropropene	< 490	490	1600		ug/kg		7/18/97	SW846 8260
Trichloroethene	< 380	380	1200		ug/kg		7/18/97	SW846 8260
Vinyl chloride	< 630	630	2000		ug/kg		7/18/97	SW846 8260
Xylene, total	150000	1000	3200		ug/kg		7/18/97	SW846 8260



**- Analytical Report -**

Project Name : WDNR - COLUMBIA CO  
 Project Number : 4389.01  
 Lab Sample Number : 972370-007  
 Station ID : PAIL 2 (AREA 2)  
 WI DNR LAB ID : 113138520

Submitter # : 1000.99  
 Submitter : RMT - MADISON  
 Report Date : 7/28/97  
 Collection Date : 7/8/97  
 Matrix Type : SLUDGE

**Volatile Organic Results**

TARGET COMPOUND LIST - VOLATILES

Prep Method: SW846 5030

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 4300	4300	14000		ug/kg		7/17/97	SW846 8260
1,1,2,2-Tetrachloroethane	< 4800	4800	15000		ug/kg		7/17/97	SW846 8260
1,1,2-Trichloroethane	< 5500	5500	18000		ug/kg		7/17/97	SW846 8260
1,1-Dichloroethane	< 4100	4100	13000		ug/kg		7/17/97	SW846 8260
1,1-Dichloroethene	< 5600	5600	18000		ug/kg		7/17/97	SW846 8260
1,2-Dichloroethane	< 4700	4700	15000		ug/kg		7/17/97	SW846 8260
1,2-Dichloroethene, total	< 10000	10000	32000		ug/kg		7/17/97	SW846 8260
1,2-Dichloropropane	< 7400	7400	24000		ug/kg		7/17/97	SW846 8260
2-Butanone	< 23000	23000	73000		ug/kg		7/17/97	SW846 8260
2-Hexanone	< 9400	9400	30000		ug/kg		7/17/97	SW846 8260
4-Methyl-2-pentanone	< 5900	5900	19000		ug/kg		7/17/97	SW846 8260
Acetone	< 33000	33000	110000		ug/kg		7/17/97	SW846 8260
Benzene	< 4000	4000	13000		ug/kg		7/17/97	SW846 8260
Bromodichloromethane	< 3900	3900	12000		ug/kg		7/17/97	SW846 8260
Bromoform	< 2800	2800	8900		ug/kg		7/17/97	SW846 8260
Bromomethane	< 9600	9600	31000		ug/kg		7/17/97	SW846 8260
Carbon disulfide	< 4500	4500	14000		ug/kg		7/17/97	SW846 8260
Carbon tetrachloride	< 4300	4300	14000		ug/kg		7/17/97	SW846 8260
Chlorobenzene	< 2900	2900	9200		ug/kg		7/17/97	SW846 8260
Chlorodibromomethane	< 2500	2500	8000		ug/kg		7/17/97	SW846 8260
Chloroethane	< 11000	11000	35000		ug/kg		7/17/97	SW846 8260
Chloroform	< 5000	5000	16000		ug/kg		7/17/97	SW846 8260
Chloromethane	< 6800	6800	22000		ug/kg		7/17/97	SW846 8260
cis-1,3-Dichloropropene	< 4700	4700	15000		ug/kg		7/17/97	SW846 8260
Ethylbenzene	320000	4000	13000		ug/kg		7/17/97	SW846 8260
Methylene chloride	< 4200	4200	13000		ug/kg		7/17/97	SW846 8260
Styrene	5200	2300	7300		ug/kg	Q	7/17/97	SW846 8260
Tetrachloroethane	28000	4400	14000		ug/kg		7/17/97	SW846 8260
Toluene	13000	3200	10000		ug/kg		7/17/97	SW846 8260
trans-1,3-Dichloropropene	< 4900	4900	16000		ug/kg		7/17/97	SW846 8260
Trichloroethene	< 3800	3800	12000		ug/kg		7/17/97	SW846 8260
Vinyl chloride	< 6300	6300	20000		ug/kg		7/17/97	SW846 8260
Xylene, total	1400000	10000	32000		ug/kg		7/17/97	SW846 8260

**- Analytical Report -**

Project Name : WDNR - COLUMBIA CO

Submitter # : 1000.99

Project Number : 4389.01

Submitter : RMT - MADISON

Lab Sample Number : 972370-006

Report Date : 7/28/97

Station ID : PAIL 1 (AREA 2)

Collection Date : 7/8/97

WI DNR LAB ID : 113138520

Matrix Type : SLUDGE

**Volatile Organic Results**

TARGET COMPOUND LIST - VOLATILES

Prep Method: SW846 5030

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 430000	430000	1400000		ug/kg		7/18/97	SW846 8260
1,1,2,2-Tetrachloroethane	< 480000	480000	1500000		ug/kg		7/18/97	SW846 8260
1,1,2-Trichloroethane	< 550000	550000	1800000		ug/kg		7/18/97	SW846 8260
1,1-Dichloroethane	< 410000	410000	1300000		ug/kg		7/18/97	SW846 8260
1,1-Dichloroethene	< 560000	560000	1800000		ug/kg		7/18/97	SW846 8260
1,2-Dichloroethane	< 470000	470000	1500000		ug/kg		7/18/97	SW846 8260
1,2-Dichloroethene, total	< 1000000	1000000	3200000		ug/kg		7/18/97	SW846 8260
1,2-Dichloropropane	< 740000	740000	2400000		ug/kg		7/18/97	SW846 8260
2-Butanone	< 2300000	2300000	7300000		ug/kg		7/18/97	SW846 8260
2-Hexanone	< 940000	940000	3000000		ug/kg		7/18/97	SW846 8260
4-Methyl-2-pentanone	53000000	590000	1900000		ug/kg		7/18/97	SW846 8260
Acetone	< 3300000	3300000	11000000		ug/kg		7/18/97	SW846 8260
Benzene	< 400000	400000	1300000		ug/kg		7/18/97	SW846 8260
Bromodichloromethane	< 390000	390000	1200000		ug/kg		7/18/97	SW846 8260
Bromoform	< 280000	280000	890000		ug/kg		7/18/97	SW846 8260
Bromomethane	< 960000	960000	3100000		ug/kg		7/18/97	SW846 8260
Carbon disulfide	< 450000	450000	1400000		ug/kg		7/18/97	SW846 8260
Carbon tetrachloride	< 430000	430000	1400000		ug/kg		7/18/97	SW846 8260
Chlorobenzene	< 290000	290000	920000		ug/kg		7/18/97	SW846 8260
Chlorodibromomethane	< 250000	250000	800000		ug/kg		7/18/97	SW846 8260
Chloroethane	< 1100000	1100000	3500000		ug/kg		7/18/97	SW846 8260
Chloroform	< 500000	500000	1600000		ug/kg		7/18/97	SW846 8260
Chloromethane	< 680000	680000	2200000		ug/kg		7/18/97	SW846 8260
cis-1,3-Dichloropropene	< 470000	470000	1500000		ug/kg		7/18/97	SW846 8260
Ethylbenzene	3900000	400000	1300000		ug/kg		7/18/97	SW846 8260
Methylene chloride	< 420000	420000	1300000		ug/kg		7/18/97	SW846 8260
Styrene	< 230000	230000	730000		ug/kg		7/18/97	SW846 8260
Tetrachloroethene	< 440000	440000	1400000		ug/kg		7/18/97	SW846 8260
Toluene	< 320000	320000	1000000		ug/kg		7/18/97	SW846 8260
trans-1,3-Dichloropropene	< 490000	490000	1600000		ug/kg		7/18/97	SW846 8260
Trichloroethene	< 380000	380000	1200000		ug/kg		7/18/97	SW846 8260
Vinyl chloride	< 630000	630000	2000000		ug/kg		7/18/97	SW846 8260
Xylene, total	26000000	1000000	3200000		ug/kg		7/18/97	SW846 8260



**- Analytical Report -**

Project Name : WDNR - COLUMBIA CO  
 Project Number : 4389.01  
 Lab Sample Number : 972370-005  
 Station ID : PAIL 9 (AREA 1)  
 WI DNR LAB ID : 113138520

Submitter # : 1000.99  
 Submitter : RMT - MADISON  
 Report Date : 7/28/97  
 Collection Date : 7/8/97  
 Matrix Type : SLUDGE

**Volatile Organic Results**

TARGET COMPOUND LIST - VOLATILES

Prep Method: SW846 5030

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 2200000	2200000	7000000		ug/kg		7/18/97	SW846 8260
1,1,2,2-Tetrachloroethane	< 2400000	2400000	7600000		ug/kg		7/18/97	SW846 8260
1,1,2-Trichloroethane	< 2800000	2800000	8900000		ug/kg		7/18/97	SW846 8260
1,1-Dichloroethane	< 2000000	2000000	6400000		ug/kg		7/18/97	SW846 8260
1,1-Dichloroethene	< 2800000	2800000	8900000		ug/kg		7/18/97	SW846 8260
1,2-Dichloroethane	< 2400000	2400000	7600000		ug/kg		7/18/97	SW846 8260
1,2-Dichloroethene, total	< 5000000	5000000	16000000		ug/kg		7/18/97	SW846 8260
1,2-Dichloropropane	< 3700000	3700000	12000000		ug/kg		7/18/97	SW846 8260
2-Butanone	< 12000000	12000000	38000000		ug/kg		7/18/97	SW846 8260
2-Hexanone	260000000	4700000	15000000		ug/kg		7/18/97	SW846 8260
4-Methyl-2-pentanone	< 3000000	3000000	9600000		ug/kg		7/18/97	SW846 8260
Acetone	32000000	16000000	51000000		ug/kg	QB(5.5)	7/18/97	SW846 8260
Benzene	< 2000000	2000000	6400000		ug/kg		7/18/97	SW846 8260
Bromodichloromethane	< 2000000	2000000	6400000		ug/kg		7/18/97	SW846 8260
Bromoform	< 1400000	1400000	4500000		ug/kg		7/18/97	SW846 8260
Bromomethane	< 4800000	4800000	15000000		ug/kg		7/18/97	SW846 8260
Carbon disulfide	< 2300000	2300000	7300000		ug/kg		7/18/97	SW846 8260
Carbon tetrachloride	< 2200000	2200000	7000000		ug/kg		7/18/97	SW846 8260
Chlorobenzene	< 1400000	1400000	4500000		ug/kg		7/18/97	SW846 8260
Chlorodibromomethane	< 1300000	1300000	4100000		ug/kg		7/18/97	SW846 8260
Chloroethane	< 5500000	5500000	18000000		ug/kg		7/18/97	SW846 8260
Chloroform	< 2500000	2500000	8000000		ug/kg		7/18/97	SW846 8260
Chloromethane	< 3400000	3400000	11000000		ug/kg		7/18/97	SW846 8260
cis-1,3-Dichloropropene	< 2400000	2400000	7600000		ug/kg		7/18/97	SW846 8260
Ethylbenzene	< 2000000	2000000	6400000		ug/kg		7/18/97	SW846 8260
Methylene chloride	< 2100000	2100000	6700000		ug/kg		7/18/97	SW846 8260
Styrene	< 1200000	1200000	3800000		ug/kg		7/18/97	SW846 8260
Tetrachloroethane	< 2200000	2200000	7000000		ug/kg		7/18/97	SW846 8260
Toluene	< 1600000	1600000	5100000		ug/kg		7/18/97	SW846 8260
trans-1,3-Dichloropropene	< 2500000	2500000	8000000		ug/kg		7/18/97	SW846 8260
Trichloroethene	< 1900000	1900000	6100000		ug/kg		7/18/97	SW846 8260
Vinyl chloride	< 3200000	3200000	10000000		ug/kg		7/18/97	SW846 8260
Xylene, total	< 5000000	5000000	16000000		ug/kg		7/18/97	SW846 8260



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 Green Bay, WI 54302  
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**- Analytical Report -**

Project Name : WDNR - COLUMBIA CO

Submitter # : 1000.99

Project Number : 4389.01

Submitter : RMT - MADISON

Lab Sample Number : 972370-004

Report Date : 7/28/97

Station ID : PAIL 8 (AREA 1)

Collection Date : 7/8/97

WI DNR LAB ID : 113138520

Matrix Type : SLUDGE

**Volatile Organic Results**

TARGET COMPOUND LIST - VOLATILES

Prep Method: SW846 5030

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 4300	4300	14000		ug/kg		7/18/97	SW846 8260
1,1,2,2-Tetrachloroethane	< 4800	4800	15000		ug/kg		7/18/97	SW846 8260
1,1,2-Trichloroethane	< 5500	5500	18000		ug/kg		7/18/97	SW846 8260
1,1-Dichloroethane	< 4100	4100	13000		ug/kg		7/18/97	SW846 8260
1,1-Dichloroethene	< 5600	5600	18000		ug/kg		7/18/97	SW846 8260
1,2-Dichloroethane	< 4700	4700	15000		ug/kg		7/18/97	SW846 8260
1,2-Dichloroethene, total	< 10000	10000	32000		ug/kg		7/18/97	SW846 8260
1,2-Dichloropropane	< 7400	7400	24000		ug/kg		7/18/97	SW846 8260
2-Butanone	< 23000	23000	73000		ug/kg		7/18/97	SW846 8260
2-Hexanone	< 9400	9400	30000		ug/kg		7/18/97	SW846 8260
4-Methyl-2-pentanone	< 5900	5900	19000		ug/kg		7/18/97	SW846 8260
Acetone	230000	33000	110000		ug/kg	B(5.5)	7/18/97	SW846 8260
Benzene	< 4000	4000	13000		ug/kg		7/18/97	SW846 8260
Bromodichloromethane	< 3900	3900	12000		ug/kg		7/18/97	SW846 8260
Bromoform	< 2800	2800	8900		ug/kg		7/18/97	SW846 8260
Bromomethane	< 9600	9600	31000		ug/kg		7/18/97	SW846 8260
Carbon disulfide	< 4500	4500	14000		ug/kg		7/18/97	SW846 8260
Carbon tetrachloride	< 4300	4300	14000		ug/kg		7/18/97	SW846 8260
Chlorobenzene	< 2900	2900	9200		ug/kg		7/18/97	SW846 8260
Chlorodibromomethane	< 2500	2500	8000		ug/kg		7/18/97	SW846 8260
Chloroethane	< 11000	11000	35000		ug/kg		7/18/97	SW846 8260
Chloroform	< 5000	5000	16000		ug/kg		7/18/97	SW846 8260
Chloromethane	< 6800	6800	22000		ug/kg		7/18/97	SW846 8260
cis-1,3-Dichloropropene	< 4700	4700	15000		ug/kg		7/18/97	SW846 8260
Ethylbenzene	180000	4000	13000		ug/kg		7/18/97	SW846 8260
Methylene chloride	< 4200	4200	13000		ug/kg		7/18/97	SW846 8260
Styrene	< 2300	2300	7300		ug/kg		7/18/97	SW846 8260
Tetrachloroethene	< 4400	4400	14000		ug/kg		7/18/97	SW846 8260
Toluene	94000	3200	10000		ug/kg		7/18/97	SW846 8260
trans-1,3-Dichloropropene	< 4900	4900	16000		ug/kg		7/18/97	SW846 8260
Trichloroethene	< 3800	3800	12000		ug/kg		7/18/97	SW846 8260
Vinyl chloride	< 6300	6300	20000		ug/kg		7/18/97	SW846 8260
Xylene, total	770000	10000	32000		ug/kg		7/18/97	SW846 8260



**- Analytical Report -**

Project Name : WDNR - COLUMBIA CO

Submitter # : 1000.99

Project Number : 4389.01

Submitter : RMT - MADISON

Lab Sample Number : 972370-003

Report Date : 7/28/97

Station ID : PAIL 7 (AREA 1)

Collection Date : 7/8/97

WI DNR LAB ID : 113138520

Matrix Type : SLUDGE

**Volatile Organic Results**

TARGET COMPOUND LIST - VOLATILES

Prep Method: SW846 5030

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 4300	4300	14000		ug/kg		7/17/97	SW846 8260
1,1,2,2-Tetrachloroethane	< 4800	4800	15000		ug/kg		7/17/97	SW846 8260
1,1,2-Trichloroethane	< 5500	5500	18000		ug/kg		7/17/97	SW846 8260
1,1-Dichloroethane	< 4100	4100	13000		ug/kg		7/17/97	SW846 8260
1,1-Dichloroethene	< 5600	5600	18000		ug/kg		7/17/97	SW846 8260
1,2-Dichloroethane	< 4700	4700	15000		ug/kg		7/17/97	SW846 8260
1,2-Dichloroethene, total	< 10000	10000	32000		ug/kg		7/17/97	SW846 8260
1,2-Dichloropropane	< 7400	7400	24000		ug/kg		7/17/97	SW846 8260
2-Butanone	< 23000	23000	73000		ug/kg		7/17/97	SW846 8260
2-Hexanone	< 9400	9400	30000		ug/kg		7/17/97	SW846 8260
4-Methyl-2-pentanone	< 5900	5900	19000		ug/kg		7/17/97	SW846 8260
Acetone	51000	33000	110000		ug/kg	QB(4.8)	7/17/97	SW846 8260
Benzene	< 4000	4000	13000		ug/kg		7/17/97	SW846 8260
Bromodichloromethane	< 3900	3900	12000		ug/kg		7/17/97	SW846 8260
Bromoform	< 2800	2800	8900		ug/kg		7/17/97	SW846 8260
Bromomethane	< 9600	9600	31000		ug/kg		7/17/97	SW846 8260
Carbon disulfide	< 4500	4500	14000		ug/kg		7/17/97	SW846 8260
Carbon tetrachloride	< 4300	4300	14000		ug/kg		7/17/97	SW846 8260
Chlorobenzene	< 2900	2900	9200		ug/kg		7/17/97	SW846 8260
Chlorodibromomethane	< 2500	2500	8000		ug/kg		7/17/97	SW846 8260
Chloroethane	< 11000	11000	35000		ug/kg		7/17/97	SW846 8260
Chloroform	< 5000	5000	16000		ug/kg		7/17/97	SW846 8260
Chloromethane	< 6800	6800	22000		ug/kg		7/17/97	SW846 8260
cis-1,3-Dichloropropene	< 4700	4700	15000		ug/kg		7/17/97	SW846 8260
Ethylbenzene	22000	4000	13000		ug/kg		7/17/97	SW846 8260
Methylene chloride	< 4200	4200	13000		ug/kg		7/17/97	SW846 8260
Styrene	< 2300	2300	7300		ug/kg		7/17/97	SW846 8260
Tetrachloroethene	< 4400	4400	14000		ug/kg		7/17/97	SW846 8260
Toluene	530000	3200	10000		ug/kg		7/17/97	SW846 8260
trans-1,3-Dichloropropene	< 4900	4900	16000		ug/kg		7/17/97	SW846 8260
Trichloroethene	< 3800	3800	12000		ug/kg		7/17/97	SW846 8260
Vinyl chloride	< 6300	6300	20000		ug/kg		7/17/97	SW846 8260
Xylene, total	280000	10000	32000		ug/kg		7/17/97	SW846 8260



- Analytical Report -

Project Name : WDNR - COLUMBIA CO  
 Project Number : 4389.01  
 Lab Sample Number : 972370-002  
 Station ID : PAIL 6 (AREA 1)  
 WI DNR LAB ID : 113138520

Submitter # : 1000.99  
 Submitter : RMT - MADISON  
 Report Date : 7/28/97  
 Collection Date : 7/8/97  
 Matrix Type : SLUDGE

Volatile Organic Results

TARGET COMPOUND LIST - VOLATILES

Prep Method: SW846 5030

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 4300	4300	14000		ug/kg		7/17/97	SW846 8260
1,1,2,2-Tetrachloroethane	< 4800	4800	15000		ug/kg		7/17/97	SW846 8260
1,1,2-Trichloroethane	< 5500	5500	18000		ug/kg		7/17/97	SW846 8260
1,1-Dichloroethane	< 4100	4100	13000		ug/kg		7/17/97	SW846 8260
1,1-Dichloroethene	< 5600	5600	18000		ug/kg		7/17/97	SW846 8260
1,2-Dichloroethane	< 4700	4700	15000		ug/kg		7/17/97	SW846 8260
1,2-Dichloroethene, total	< 10000	10000	32000		ug/kg		7/17/97	SW846 8260
1,2-Dichloropropane	< 7400	7400	24000		ug/kg		7/17/97	SW846 8260
2-Butanone	< 23000	23000	73000		ug/kg		7/17/97	SW846 8260
2-Hexanone	< 9400	9400	30000		ug/kg		7/17/97	SW846 8260
4-Methyl-2-pentanone	77000	5900	19000		ug/kg		7/17/97	SW846 8260
Acetone	140000	33000	110000		ug/kg	B(4.8)	7/17/97	SW846 8260
Benzene	< 4000	4000	13000		ug/kg		7/17/97	SW846 8260
Bromodichloromethane	< 3900	3900	12000		ug/kg		7/17/97	SW846 8260
Bromoform	< 2800	2800	8900		ug/kg		7/17/97	SW846 8260
Bromomethane	< 9600	9600	31000		ug/kg		7/17/97	SW846 8260
Carbon disulfide	< 4500	4500	14000		ug/kg		7/17/97	SW846 8260
Carbon tetrachloride	< 4300	4300	14000		ug/kg		7/17/97	SW846 8260
Chlorobenzene	< 2900	2900	9200		ug/kg		7/17/97	SW846 8260
Chlorodibromomethane	< 2500	2500	8000		ug/kg		7/17/97	SW846 8260
Chloroethane	< 11000	11000	35000		ug/kg		7/17/97	SW846 8260
Chloroform	< 5000	5000	16000		ug/kg		7/17/97	SW846 8260
Chloromethane	< 6800	6800	22000		ug/kg		7/17/97	SW846 8260
cis-1,3-Dichloropropene	< 4700	4700	15000		ug/kg		7/17/97	SW846 8260
Ethylbenzene	230000	4000	13000		ug/kg		7/17/97	SW846 8260
Methylene chloride	< 4200	4200	13000		ug/kg		7/17/97	SW846 8260
Styrene	510000	2300	7300		ug/kg		7/17/97	SW846 8260
Tetrachloroethene	< 4400	4400	14000		ug/kg		7/17/97	SW846 8260
Toluene	120000	3200	10000		ug/kg		7/17/97	SW846 8260
trans-1,3-Dichloropropene	< 4900	4900	16000		ug/kg		7/17/97	SW846 8260
Trichloroethene	< 3800	3800	12000		ug/kg		7/17/97	SW846 8260
Vinyl chloride	< 6300	6300	20000		ug/kg		7/17/97	SW846 8260
Xylene, total	110000	10000	32000		ug/kg		7/17/97	SW846 8260



**- Analytical Report -**

Project Name : WDNR - COLUMBIA CO  
 Project Number : 4389.01  
 Lab Sample Number : 972370-001  
 Station ID : PAIL 3 (AREA 1)  
 WI DNR LAB ID : 113138520

Submitter # : 1000.99  
 Submitter : RMT - MADISON  
 Report Date : 7/28/97  
 Collection Date : 7/8/97  
 Matrix Type : SLUDGE

**Volatile Organic Results**

TARGET COMPOUND LIST - VOLATILES

Prep Method: SW846 5030

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 86000	86000	270000		ug/kg		7/18/97	SW846 8260
1,1,2,2-Tetrachloroethane	< 96000	96000	310000		ug/kg		7/18/97	SW846 8260
1,1,2-Trichloroethane	< 110000	110000	350000		ug/kg		7/18/97	SW846 8260
1,1-Dichloroethane	< 82000	82000	260000		ug/kg		7/18/97	SW846 8260
1,1-Dichloroethene	< 110000	110000	350000		ug/kg		7/18/97	SW846 8260
1,2-Dichloroethane	< 94000	94000	300000		ug/kg		7/18/97	SW846 8260
1,2-Dichloroethene, total	< 200000	200000	640000		ug/kg		7/18/97	SW846 8260
1,2-Dichloropropane	< 150000	150000	480000		ug/kg		7/18/97	SW846 8260
2-Butanone	< 470000	470000	1500000		ug/kg		7/18/97	SW846 8260
2-Hexanone	< 190000	190000	610000		ug/kg		7/18/97	SW846 8260
4-Methyl-2-pentanone	280000000	1200000	3800000		ug/kg	D	7/18/97	SW846 8260
Acetone	2100000	660000	2100000		ug/kg	B(5.5)	7/18/97	SW846 8260
Benzene	< 80000	80000	250000		ug/kg		7/18/97	SW846 8260
Bromodichloromethane	< 78000	78000	250000		ug/kg		7/18/97	SW846 8260
Bromoform	< 56000	56000	180000		ug/kg		7/18/97	SW846 8260
Bromomethane	< 190000	190000	610000		ug/kg		7/18/97	SW846 8260
Carbon disulfide	< 90000	90000	290000		ug/kg		7/18/97	SW846 8260
Carbon tetrachloride	< 86000	86000	270000		ug/kg		7/18/97	SW846 8260
Chlorobenzene	< 58000	58000	180000		ug/kg		7/18/97	SW846 8260
Chlorodibromomethane	< 50000	50000	160000		ug/kg		7/18/97	SW846 8260
Chloroethane	< 220000	220000	700000		ug/kg		7/18/97	SW846 8260
Chloroform	< 100000	100000	320000		ug/kg		7/18/97	SW846 8260
Chloromethane	< 140000	140000	450000		ug/kg		7/18/97	SW846 8260
cis-1,3-Dichloropropene	< 94000	94000	300000		ug/kg		7/18/97	SW846 8260
Ethylbenzene	6100000	80000	250000		ug/kg		7/18/97	SW846 8260
Methylene chloride	< 84000	84000	270000		ug/kg		7/18/97	SW846 8260
Styrene	< 46000	46000	150000		ug/kg		7/18/97	SW846 8260
Tetrachloroethene	< 88000	88000	280000		ug/kg		7/18/97	SW846 8260
Toluene	150000	64000	200000		ug/kg	Q	7/18/97	SW846 8260
trans-1,3-Dichloropropene	< 98000	98000	310000		ug/kg		7/18/97	SW846 8260
Trichloroethene	< 76000	76000	240000		ug/kg		7/18/97	SW846 8260
Vinyl chloride	< 130000	130000	410000		ug/kg		7/18/97	SW846 8260
Xylene, total	42000000	200000	640000		ug/kg		7/18/97	SW846 8260

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**SAMPLE NARRATIVE  
VOLATILE GC/MS ORGANIC ANALYSIS**

**PROJECT NAME:** WDNR-COLUMBIA  
**WORKORDER NUMBER:** 972370  
**DATE:** 07/24/97

Aliquots from samples 972370-001, 97270-002, 972370-003 and 972370-004 were weighed into a volumetric and filled with organic free water in order to dilute the sample material. The dilution factor was calculated from the weight of each and further serial dilutions were prepared. The sample weight for each sample into a 100 mL volumetric are as follows:

<b><u>SAMPLE #</u></b>	<b><u>SAMPLE ALIQUOT (g)</u></b>
972370-001	.11
972370-002	.12
972370-003	.11
972370-004	.10

The remaining samples were preserved with MEOH and were analyzed under Wisconsin state requirements. Sample aliquots were taken from each sample and the dilutions were made accordingly. All samples were reported on an as is basis and no dry weight amounts were included in the calculation.

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**- Analytical Report -**

**Project Name :** WDNR - COLUMBIA CO  
**Project Number :** 4389.01  
**Lab Sample Number :** 972370-001  
**Station ID :** PAIL 3 (AREA 1)  
**WI DNR LAB ID :** 113138520

**Submitter # :** 1000.99  
**Submitter :** RMT - MADISON  
**Report Date :** 7/28/97  
**Collection Date :** 7/8/97  
**Matrix Type :** SLUDGE

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic	2.7	1.6	5.1		mg/kg	Q	7/24/97	SW846 3050	SW846 6010
Arsenic - TCLP	< 0.70			0.70	mg/L		7/17/97	SW846 3015	SW846 6010
Barium	22	0.10	0.32		mg/kg		7/21/97	SW846 3050	SW846 6010
Barium - TCLP	< 0.20			0.20	mg/L		7/17/97	SW846 3015	SW846 6010
Cadmium	5.7	0.13	0.41		mg/kg		7/24/97	SW846 3050	SW846 6010
Cadmium - TCLP	0.018			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Chromium	59	0.12	0.38		mg/kg		7/21/97	SW846 3050	SW846 6010
Chromium - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Lead	27	1.1	3.5		mg/kg		7/24/97	SW846 3050	SW846 6010
Lead - TCLP	< 0.20			0.20	mg/L		7/17/97	SW846 3015	SW846 6010
Mercury	< 0.050	0.050	0.16		mg/kg		7/21/97	SW846 7471A	SW846 7471A
Mercury - TCLP	< 0.00040			0.00040	mg/L		7/22/97	SW846 7470A	SW846 7470A
Selenium	2.5	1.7	5.4		mg/kg	Q	7/24/97	SW846 3050	SW846 6010
Selenium - TCLP	< 0.70			0.70	mg/L		7/17/97	SW846 3015	SW846 6010
Silver	5.4	0.46	1.5		mg/kg		7/21/97	SW846 3050	SW846 6010
Silver - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Flashpoint	<70				degrees F		7/17/97	SW846 1010	SW846 1010
Solids, percent	83.2				%		7/17/97	EPA 160.3M	EPA 160.3M

All soil results are reported on a dry weight basis unless otherwise noted.

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**- Analytical Report -**

**Project Name : WDNR - COLUMBIA CO**

**Submitter # : 1000.99**

**Project Number : 4389.01**

**Submitter : RMT - MADISON**

**Lab Sample Number : 972370-001**

**Report Date : 7/28/97**

**Station ID : PAIL 3 (AREA 1)**

**Collection Date : 7/8/97**

**WI DNR LAB ID : 113138520**

**Matrix Type : SLUDGE**

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**Leaching Results**

**Prep Method: SW846 1311**

<b>Test</b>	<b>Result</b>	<b>Units</b>
Extraction solution	1	—
Extraction solution pH	4.9	su
Final pH	5.0	su
Leaching date	7/15/97	—
pH, after 5 minutes	7.4	su
pH, after heating	1.6	su
Sample weight, total	100	g

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**- Analytical Report -**

**Project Name :** WDNR - COLUMBIA CO  
**Project Number :** 4389.01  
**Lab Sample Number :** 972370-002  
**Station ID :** PAIL 6 (AREA 1)  
**WI DNR LAB ID :** 113138520

**Submitter # :** 1000.99  
**Submitter :** RMT - MADISON  
**Report Date :** 7/28/97  
**Collection Date :** 7/8/97  
**Matrix Type :** SLUDGE

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic	< 1.0	1.0	3.2		mg/kg		7/21/97	SW846 3050	SW846 6010
Arsenic - TCLP	< 0.70			0.70	mg/L		7/17/97	SW846 3015	SW846 6010
Barium	11	0.20	0.64		mg/kg		7/21/97	SW846 3050	SW846 6010
Barium - TCLP	0.60			0.20	mg/L		7/17/97	SW846 3015	SW846 6010
Cadmium	< 0.084	0.084	0.27		mg/kg		7/21/97	SW846 3050	SW846 6010
Cadmium - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Chromium	1.8	0.23	0.73		mg/kg		7/21/97	SW846 3050	SW846 6010
Chromium - TCLP	0.015			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Lead	4.2	0.70	2.2		mg/kg		7/21/97	SW846 3050	SW846 6010
Lead - TCLP	< 0.20			0.20	mg/L		7/17/97	SW846 3015	SW846 6010
Mercury	0.17	0.096	0.31		mg/kg	Q	7/21/97	SW846 7471A	SW846 7471A
Mercury - TCLP	< 0.00040			0.00040	mg/L		7/22/97	SW846 7470A	SW846 7470A
Selenium	2.2	1.1	3.5		mg/kg	Q	7/21/97	SW846 3050	SW846 6010
Selenium - TCLP	< 0.70			0.70	mg/L		7/17/97	SW846 3015	SW846 6010
Silver	< 0.88	0.88	2.8		mg/kg		7/21/97	SW846 3050	SW846 6010
Silver - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Flashpoint	95				degrees F		7/17/97	SW846 1010	SW846 1010
Solids, percent	43.1				%		7/17/97	EPA 160.3M	EPA 160.3M

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**- Analytical Report -**

**Project Name :** WDNR - COLUMBIA CO  
**Project Number :** 4389.01  
**Lab Sample Number :** 972370-002  
**Station ID :** PAIL 6 (AREA 1)  
**WI DNR LAB ID :** 113138520

**Submitter # :** 1000.99  
**Submitter :** RMT - MADISON  
**Report Date :** 7/28/97  
**Collection Date :** 7/8/97  
**Matrix Type :** SLUDGE

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**Leaching Results**

Prep Method: SW846 1311

Test	Result	Units
Extraction solution	2	—
Extraction solution pH	2.9	su
Final pH	4.6	su
Leaching date	7/15/97	—
pH, after 5 minutes	10.3	su
pH, after heating	7.1	su
Sample weight, total	100	g

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**- Analytical Report -**

**Project Name :** WDNR - COLUMBIA CO  
**Project Number :** 4389.01  
**Lab Sample Number :** 972370-003  
**Station ID :** PAIL 7 (AREA 1)  
**WI DNR LAB ID :** 113138520

**Submitter # :** 1000.99  
**Submitter :** RMT - MADISON  
**Report Date :** 7/28/97  
**Collection Date :** 7/8/97  
**Matrix Type :** SLUDGE

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic	< 0.70	0.70	2.2		mg/kg		7/21/97	SW846 3050	SW846 6010
Arsenic - TCLP	< 0.70			0.70	mg/L		7/17/97	SW846 3015	SW846 6010
Barium	1.5	0.14	0.45		mg/kg		7/21/97	SW846 3050	SW846 6010
Barium - TCLP	< 0.20			0.20	mg/L		7/17/97	SW846 3015	SW846 6010
Cadmium	0.077	0.057	0.18		mg/kg	Q	7/21/97	SW846 3050	SW846 6010
Cadmium - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Chromium	0.85	0.16	0.51		mg/kg		7/21/97	SW846 3050	SW846 6010
Chromium - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Lead	0.53	0.48	1.5		mg/kg	Q	7/21/97	SW846 3050	SW846 6010
Lead - TCLP	< 0.20			0.20	mg/L		7/17/97	SW846 3015	SW846 6010
Mercury	0.11	0.067	0.21		mg/kg	Q	7/21/97	SW846 7471A	SW846 7471A
Mercury - TCLP	< 0.00040			0.00040	mg/L		7/22/97	SW846 7470A	SW846 7470A
Selenium	3.6	0.75	2.4		mg/kg		7/21/97	SW846 3050	SW846 6010
Selenium - TCLP	< 0.70			0.70	mg/L		7/17/97	SW846 3015	SW846 6010
Silver	< 0.60	0.60	1.9		mg/kg		7/21/97	SW846 3050	SW846 6010
Silver - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Flashpoint	98				degrees F		7/17/97	SW846 1010	SW846 1010
Solids, percent	62.9				%		7/17/97	EPA 160.3M	EPA 160.3M

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**- Analytical Report -**

**Project Name :** WDNR - COLUMBIA CO  
**Project Number :** 4389.01  
**Lab Sample Number :** 972370-003  
**Station ID :** PAIL 7 (AREA 1)  
**WI DNR LAB ID :** 113138520

**Submitter # :** 1000.99  
**Submitter :** RMT - MADISON  
**Report Date :** 7/28/97  
**Collection Date :** 7/8/97  
**Matrix Type :** SLUDGE

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**Leaching Results**

Prep Method: SW846 1311

Test	Result	Units
Extraction solution	1	—
Extraction solution pH	4.9	su
Final pH	4.9	su
Leaching date	7/15/97	—
pH, after 5 minutes	6.8	su
pH, after heating	2.6	su
Sample weight, total	100	g

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**- Analytical Report -**

**Project Name :** WDNR - COLUMBIA CO  
**Project Number :** 4389.01  
**Lab Sample Number :** 972370-004  
**Station ID :** PAIL 8 (AREA 1)  
**WI DNR LAB ID :** 113138520

**Submitter # :** 1000.99  
**Submitter :** RMT - MADISON  
**Report Date :** 7/28/97  
**Collection Date :** 7/18/97  
**Matrix Type :** SLUDGE

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic	< 1.1	1.1	3.5		mg/kg		7/21/97	SW846 3050	SW846 6010
Arsenic - TCLP	< 0.70			0.70	mg/L		7/17/97	SW846 3015	SW846 6010
Barium	0.42	0.22	0.70		mg/kg	Q	7/21/97	SW846 3050	SW846 6010
Barium - TCLP	< 0.20			0.20	mg/L		7/17/97	SW846 3015	SW846 6010
Cadmium	< 0.090	0.090	0.29		mg/kg		7/21/97	SW846 3050	SW846 6010
Cadmium - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Chromium	0.58	0.25	0.80		mg/kg	Q	7/21/97	SW846 3050	SW846 6010
Chromium - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Lead	1.0	0.75	2.4		mg/kg	Q	7/21/97	SW846 3050	SW846 6010
Lead - TCLP	< 0.20			0.20	mg/L		7/17/97	SW846 3015	SW846 6010
Mercury	0.16	0.10	0.32		mg/kg	Q	7/21/97	SW846 7471A	SW846 7471A
Mercury - TCLP	0.00059			0.00040	mg/L		7/22/97	SW846 7470A	SW846 7470A
Selenium	2.6	1.2	3.8		mg/kg	Q	7/21/97	SW846 3050	SW846 6010
Selenium - TCLP	< 0.70			0.70	mg/L		7/17/97	SW846 3015	SW846 6010
Silver	< 0.95	0.95	3.0		mg/kg		7/21/97	SW846 3050	SW846 6010
Silver - TCLP	0.011			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Flashpoint	97				degrees F		7/17/97	SW846 1010	SW846 1010
Solids, percent	40.0				%		7/17/97	EPA 160.3M	EPA 160.3M

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**- Analytical Report -**

Project Name : WDNR - COLUMBIA CO

Submitter # : 1000.99

Project Number : 4389.01

Submitter : RMT - MADISON

Lab Sample Number : 972370-004

Report Date : 7/28/97

Station ID : PAIL 8 (AREA 1)

Collection Date : 7/8/97

WI DNR LAB ID : 113138520

Matrix Type : SLUDGE

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**Leaching Results**

Prep Method: SW846 1311

Test	Result	Units
Extraction solution	2	—
Extraction solution pH	2.9	su
Final pH	4.6	su
Leaching date	7/15/97	—
pH, after 5 minutes	10.5	su
pH, after heating	7.2	su
Sample weight, total	100	g

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**- Analytical Report -**

Project Name : WDNR - COLUMBIA CO

Submitter # : 1000.99

Project Number : 4389.01

Submitter : RMT - MADISON

Lab Sample Number : 972370-005

Report Date : 7/28/97

Station ID : PAIL 9 (AREA 1)

Collection Date : 7/8/97

WI DNR LAB ID : 113138520

Matrix Type : SLUDGE

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic	5.6	1.5	4.8		mg/kg		7/24/97	SW846 3050	SW846 6010
Arsenic - TCLP	< 0.70			0.70	mg/L		7/17/97	SW846 3015	SW846 6010
Barium	94	0.098	0.31		mg/kg		7/21/97	SW846 3050	SW846 6010
Barium - TCLP	< 0.20			0.20	mg/L		7/17/97	SW846 3015	SW846 6010
Cadmium	2.9	0.12	0.38		mg/kg		7/24/97	SW846 3050	SW846 6010
Cadmium - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Chromium	100	0.11	0.35		mg/kg		7/21/97	SW846 3050	SW846 6010
Chromium - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Lead	74	1.0	3.2		mg/kg		7/24/97	SW846 3050	SW846 6010
Lead - TCLP	< 0.20			0.20	mg/L		7/17/97	SW846 3015	SW846 6010
Mercury	< 0.047	0.047	0.15		mg/kg		7/21/97	SW846 7471A	SW846 7471A
Mercury - TCLP	< 0.00040			0.00040	mg/L		7/22/97	SW846 7470A	SW846 7470A
Selenium	4.3	1.6	5.1		mg/kg	Q	7/24/97	SW846 3050	SW846 6010
Selenium - TCLP	< 0.70			0.70	mg/L		7/17/97	SW846 3015	SW846 6010
Silver	7.6	0.43	1.4		mg/kg		7/21/97	SW846 3050	SW846 6010
Silver - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Flashpoint	84				degrees F		7/17/97	SW846 1010	SW846 1010
Solids, percent	88.7				%		7/17/97	EPA 160.3M	EPA 160.3M

All soil results are reported on a dry weight basis unless otherwise noted.

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**- Analytical Report -**

**Project Name : WDNR - COLUMBIA CO**  
**Project Number : 4389.01**  
**Lab Sample Number : 972370-005**  
**Station ID : PAIL 9 (AREA 1)**  
**WI DNR LAB ID : 113138520**

**Submitter # : 1000.99**  
**Submitter : RMT - MADISON**  
**Report Date : 7/28/97**  
**Collection Date : 7/8/97**  
**Matrix Type : SLUDGE**

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**Leaching Results**

Prep Method: SW846 1311

Test	Result	Units
Extraction solution	1	—
Extraction solution pH	5.0	SU
Final pH	4.9	SU
Leaching date	7/15/97	—
pH, after 5 minutes	4.8	SU
pH, after heating	1.7	SU
Sample weight, total	100	g



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## - Analytical Report -

**Project Name :** WDNR - COLUMBIA CO  
**Project Number :** 4389.01  
**Lab Sample Number :** 972370-006  
**Station ID :** PAIL 1 (AREA 2)  
**WI DNR LAB ID :** 113138520

**Submitter # :** 1000.99  
**Submitter :** RMT - MADISON  
**Report Date :** 7/28/97  
**Collection Date :** 7/8/97  
**Matrix Type :** SLUDGE

### Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic	12	1.4	4.5		mg/kg		7/24/97	SW846 3050	SW846 6010
Arsenic - TCLP	< 0.70			0.70	mg/L		7/17/97	SW846 3015	SW846 6010
Barium	53	0.094	0.30		mg/kg		7/21/97	SW846 3050	SW846.6010
Barium - TCLP	< 0.20			0.20	mg/L		7/17/97	SW846 3015	SW846 6010
Cadmium	15	0.12	0.38		mg/kg		7/24/97	SW846 3050	SW846 6010
Cadmium - TCLP	0.033			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Chromium	140	0.11	0.35		mg/kg		7/21/97	SW846 3050	SW846 6010
Chromium - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Lead	63	0.97	3.1		mg/kg		7/24/97	SW846 3050	SW846 6010
Lead - TCLP	< 0.20			0.20	mg/L		7/17/97	SW846 3015	SW846 6010
Mercury	0.097	0.045	0.14		mg/kg	Q	7/21/97	SW846 7471A	SW846 7471A
Mercury - TCLP	< 0.00040			0.00040	mg/L		7/22/97	SW846 7470A	SW846 7470A
Selenium	7.0	1.5	4.8		mg/kg		7/24/97	SW846 3050	SW846 6010
Selenium - TCLP	< 0.70			0.70	mg/L		7/17/97	SW846 3015	SW846 6010
Silver	14	0.41	1.3		mg/kg		7/21/97	SW846 3050	SW846 6010
Silver - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Flashpoint	74				degrees F		7/17/97	SW846 1010	SW846 1010
Solids, percent	92.8				%		7/17/97	EPA 160.3M	EPA 160.3M

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**- Analytical Report -**

**Project Name : WDNR - COLUMBIA CO**

**Submitter # : 1000.99**

**Project Number : 4389.01**

**Submitter : RMT - MADISON**

**Lab Sample Number : 972370-006**

**Report Date : 7/28/97**

**Station ID : PAIL 1 (AREA 2)**

**Collection Date : 7/8/97**

**WI DNR LAB ID : 113138520**

**Matrix Type : SLUDGE**

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**Leaching Results**

**Prep Method: SW846 1311**

<b>Test</b>	<b>Result</b>	<b>Units</b>
Extraction solution	1	—
Extraction solution pH	5.0	su
Final pH	4.9	su
Leaching date	7/15/97	—
pH, after 5 minutes	6.3	su
pH, after heating	1.8	su
Sample weight, total	100	g

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**- Analytical Report -**

**Project Name :** WDNR - COLUMBIA CO  
**Project Number :** 4389.01  
**Lab Sample Number :** 972370-007  
**Station ID :** PAIL 2 (AREA 2)  
**WI DNR LAB ID :** 113138520

**Submitter # :** 1000.99  
**Submitter :** RMT - MADISON  
**Report Date :** 7/28/97  
**Collection Date :** 7/18/97  
**Matrix Type :** SLUDGE

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic	< 0.49	0.49	1.6		mg/kg		7/21/97	SW846 3050	SW846 6010
Arsenic - TCLP	< 0.70			0.70	mg/L		7/17/97	SW846 3015	SW846 6010
Barium	3.7	0.097	0.31		mg/kg		7/21/97	SW846 3050	SW846 6010
Barium - TCLP	< 0.20			0.20	mg/L		7/17/97	SW846 3015	SW846 6010
Cadmium	< 0.040	0.040	0.13		mg/kg		7/21/97	SW846 3050	SW846 6010
Cadmium - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Chromium	0.50	0.11	0.35		mg/kg		7/21/97	SW846 3050	SW846 6010
Chromium - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Lead	1.0	0.33	1.1		mg/kg	Q	7/21/97	SW846 3050	SW846 6010
Lead - TCLP	< 0.20			0.20	mg/L		7/17/97	SW846 3015	SW846 6010
Mercury	< 0.046	0.046	0.15		mg/kg		7/21/97	SW846 7471A	SW846 7471A
Mercury - TCLP	< 0.00040			0.00040	mg/L		7/22/97	SW846 7470A	SW846 7470A
Selenium	2.1	0.52	1.7		mg/kg		7/21/97	SW846 3050	SW846 6010
Selenium - TCLP	< 0.70			0.70	mg/L		7/17/97	SW846 3015	SW846 6010
Silver	< 0.42	0.42	1.3		mg/kg		7/21/97	SW846 3050	SW846 6010
Silver - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Flashpoint	>210				degrees F		7/17/97	SW846 1010	SW846 1010
Solids, percent	89.7				%		7/17/97	EPA 160.3M	EPA 160.3M

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**- Analytical Report -**

**Project Name :** WDNR - COLUMBIA CO  
**Project Number :** 4389.01  
**Lab Sample Number :** 972370-007  
**Station ID :** PAIL 2 (AREA 2)  
**WI DNR LAB ID :** 113138520

**Submitter # :** 1000.99  
**Submitter :** RMT - MADISON  
**Report Date :** 7/28/97  
**Collection Date :** 7/8/97  
**Matrix Type :** SLUDGE

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**Leaching Results**

Prep Method: SW846 1311

Test	Result	Units
Extraction solution	1	—
Extraction solution pH	5.0	su
Final pH	4.9	su
Leaching date	7/15/97	—
pH, after 5 minutes	6.7	su
pH, after heating	1.8	su
Sample weight, total	100	g

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**- Analytical Report -**

**Project Name :** WDNR - COLUMBIA CO  
**Project Number :** 4389.01  
**Lab Sample Number :** 972370-008  
**Station ID :** PAIL 3 (AREA 2)  
**WI DNR LAB ID :** 113138520

**Submitter # :** 1000.99  
**Submitter :** RMT - MADISON  
**Report Date :** 7/28/97  
**Collection Date :** 7/8/97  
**Matrix Type :** SLUDGE

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic	0.55	0.50	1.6		mg/kg	Q	7/21/97	SW846 3050	SW846 6010
Arsenic - TCLP	< 0.70			0.70	mg/L		7/17/97	SW846 3015	SW846 6010
Barium	120	0.10	0.32		mg/kg		7/21/97	SW846 3050	SW846 6010
Barium - TCLP	9.3			0.20	mg/L		7/17/97	SW846 3015	SW846 6010
Cadmium	< 0.041	0.041	0.13		mg/kg		7/21/97	SW846 3050	SW846 6010
Cadmium - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Chromium	1.8	0.11	0.35		mg/kg		7/21/97	SW846 3050	SW846 6010
Chromium - TCLP	0.026			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Lead	3.9	0.34	1.1		mg/kg		7/21/97	SW846 3050	SW846 6010
Lead - TCLP	< 0.20			0.20	mg/L		7/17/97	SW846 3015	SW846 6010
Mercury	< 0.048	0.048	0.15		mg/kg		7/21/97	SW846 7471A	SW846 7471A
Mercury - TCLP	0.0015			0.00040	mg/L		7/22/97	SW846 7470A	SW846 7470A
Selenium	1.9	0.54	1.7		mg/kg		7/21/97	SW846 3050	SW846 6010
Selenium - TCLP	< 0.70			0.70	mg/L		7/17/97	SW846 3015	SW846 6010
Silver	3.0	0.44	1.4		mg/kg		7/21/97	SW846 3050	SW846 6010
Silver - TCLP	< 0.010			0.010	mg/L		7/17/97	SW846 3015	SW846 6010
Flashpoint	145				degrees F		7/17/97	SW846 1010	SW846 1010
Solids, percent	87.3				%		7/17/97	EPA 160.3M	EPA 160.3M

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**- Analytical Report -**

**Project Name :** WDNR - COLUMBIA CO  
**Project Number :** 4389.01  
**Lab Sample Number :** 972370-008  
**Station ID :** PAIL 3 (AREA 2)  
**WI DNR LAB ID :** 113138520

**Submitter # :** 1000.99  
**Submitter :** RMT - MADISON  
**Report Date :** 7/28/97  
**Collection Date :** 7/8/97  
**Matrix Type :** SLUDGE

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**Leaching Results**

Prep Method: SW846 1311

<b>Test</b>	<b>Result</b>	<b>Units</b>
Extraction solution	2	---
Extraction solution pH	2.9	su
Final pH	7.9	su
Leaching date	7/15/97	---
pH, after 5 minutes	10.6	su
pH, after heating	9.1	su
Sample weight, total	100	g



