

ROSEAU COUNTY
DEMOLITION-DEBRIS LAND DISPOSAL FACILITY
SW-518*

ANNUAL REPORT - 2004

I. *FACILITY INFORMATION*

The Roseau County Demolition-Debris Land Disposal Facility (facility) is owned and operated by Roseau County originally under the jurisdiction of MPCA Permit SW-540, and recently re-permitted as SW-518. The facility is located approximately 10 miles east of the City of Roseau and 2 miles southeast of Salol. The station is sited adjacent to the existing closed sanitary landfill, on land contained in the original landfill permit (SW-137). However, in 1997, the County received its Notice of Compliance for the landfill portion of the site. As a result, the facility is now located on a fifteen (15) acre parcel owned by the County. A site location map is presented as Figure 1; Figure 2 has been provided to illustrate the placement of the facility in relation to the closed landfill and County Transfer Station, (also re-permitted under SW-518).

The facility was first utilized in 1996 as a permit-by-rule demolition facility. It was operated accordingly until an official MPCA permit was issued on April 27, 1998, and re-permitted on December 21, 2004, (see Attachment A). The site is the only MPCA-permitted demolition facility in the County; therefore, it is designed to service all of Roseau County's demolition-debris type waste.

II. *QUANTITY OF WASTE RECEIVED*

In CY 2004, Roseau County received a total of 11,947 cubic yards of demolition-debris type wastes at the facility. The facility did not receive any out-of-County waste. All of the waste received was first routed through the adjacent Roseau County Transfer Station for screening and administrative purposes, (see Figure 2).

The entire volume of waste received was disposed of on-site, in Phase 3 of the facility.

* - effective 12/21/04 (formerly SW-540).

III. *DISPOSAL CAPACITY*

The total permitted facility disposal capacity is 170,000 cubic yards, (cy). This capacity includes compacted in-place demolition debris, intermediate and final cover material. The facility had an estimated service life of approximately 34 years when originally permitted in 1998.

The 170,000 cy estimate was derived from a survey conducted in the Spring of 1997, when the facility was operational as a permit-by-rule site. The following information summarizes the survey results, remaining air space, and the calculated site life of the facility:

<u>Year</u>	<u>Surveyed Air Space Utilized (yd3)</u>	<u>Remaining Air Space (yd3)</u>	<u>Remaining Site Life (yrs)</u>
1998	5,399	164,601	30.5
1999	1,917	162,684	46.5
2000	2,073	160,611	80.5
2001	2,165	158,446	77.2
2002	10,374	148,072	23.6
2003	3,840	144,232	20.3
2004	5,082	139,150	15.6

The 2004 survey showed that approximately 5,082 cy of material had been placed in the past year; therefore, approximately 139,150 cy of air space remains at the facility. The remaining facility site life is approximately 15.6 years, based upon an annual average of the materials placed in 2003 and 2004.

See Section III of the MPCA Report Form for additional information, (Pages 1 & 2).

IV. LEACHATE MANAGEMENT

This section is non-applicable, per MPCA Permit SW-518, (Attachment A).

V. AVERAGE PRICE CHARGED AT FACILITY GATE

See Section V of the MPCA Report Form for this information, (Page 3).

To summarize, the County charges a flat fee of \$8.10 per cubic yard of waste received. Of that total, \$7.50/cy is the County tipping fee, while \$0.60/cy is collected and remitted to the State of Minnesota as a part of the solid waste management tax structure.

VI. FINANCIAL ASSURANCE

This section is non-applicable, (per Attachment A).

VII. EVALUATION REPORTS

A. Evaluation of In-House Personnel Training Program, (Minn. Rules 7035.2545).

See Section VIII of this report for the facility operator(s) and inspector's training and certification status.

Note: The County plans to maintain MPCA Type II Landfill Operator certification status for the facility supervisor, the remaining employees will maintain Type III certification status.

In addition to MPCA training and certification, each operator and inspector of the Roseau County Demolition Debris Land Disposal Facility has been educated as to the daily operation and maintenance of the facility; the procedures outlined in the Roseau County Contingency Action Plan; the Facility Emergency Procedures Manual; the requirements of the Roseau County Safety and Procedures Manual; the OSHA AWAIR and Right-to-Know Programs; as well as other safety training, such as "Hazards in the Workplace" and "Competent Person Training".

B. Inspection Schedule - Summary of Emergency or Corrective Actions Implemented, (Minn. Rules 7035.2585).

The Facility inspections are as follows:

- 1) Roseau County Solid Waste Administrator : Inspection of the facility according to the Roseau County Solid Waste Ordinance, Section II, subp. 8. (MPCA Certified Landfill Inspector)
- 2) Transfer Station Operator : Daily inspections of equipment and the general operating environment at the site.
- 3) Minnesota Pollution Control Agency : Random inspection schedule concerning operations and maintenance of the facility.

The facility was inspected on at least a quarterly basis by County staff. The inspections are recorded on MPCA "Inspection Report" forms; the 2004 results are on file at the Roseau County Environmental Office. Copies of each inspection report and summary will be retained for at least five (5) years.

In CY 2004, there were no emergency situations encountered at the facility; therefore, no corrective action measures were implemented.

All procedures necessary to remedy any deterioration or malfunction of equipment will be reported to the Commissioner of the MPCA. All emergency responses will be handled as outlined in the Roseau County Contingency Action Plan and/or Emergency Procedures/Safety Manual.

C. Other Information Required.

This Section is non-applicable.

D. Amendments to Closure, Post-Closure, and Contingency Plans, (Minn. Rules 7035.2585, item G).

The applicable plans were included with the final facility Permit Application document which was submitted in January, 1998. Upon receipt of Permit SW-540, the plans were deemed approved. The facility is operated according to the permit requirements and there have been no changes to the plans since their original submittal, and subsequent re-permitting under SW-518.

E. Updated Financial Assurance Cost Estimates, (Minn. Rules 7035.2685, subd. 2).

The establishment of a financial assurance mechanism was not included as a condition for receiving an MPCA Permit for this facility; therefore, this section is non-applicable.

F. Evaluation of the Industrial Solid Waste Management Plan.

No industrial waste, including demo-like construction debris, is accepted at the facility; therefore, this section is non-applicable, (see Attachment A).

G. Evaluation of Surface and Groundwater Monitoring Data.

No water monitoring is required at the facility; therefore, this section is non-applicable, (see Attachment A).

H. Evaluation of Gas Monitoring Data.

This section is non-applicable.

I. Evaluation of Leachate Monitoring Data.

This section is non-applicable.

J. Facility Site Survey.

The baseline survey was conducted in the spring of 1997. Based upon that survey, the facility site capacity was calculated to be approximately 170,000 cubic yards. The following information summarizes the total air space utilized since 1997:

<u>Year</u>	<u>Air Space Utilized (yd3)</u>	<u>Air Space Remaining (yd3)</u>
1998	5,399	164,601
1999	1,917	162,684
2000	2,073	160,611
2001	2,165	158,446
2002	10,374	148,072
2003	3,840	144,232
2004	5,082	139,150

According to our facility receipts, the total amount of waste received in 2004 was 11,947 cubic yards, the difference would be attributable to compaction and intermittent cover.

Based upon the past surveys conducted at the facility, approximately 139,150 cubic yards of air space remains at the site.

Attachment B contains the survey data and calculations which were completed by Roseau County Engineer Brian Ketring, a licensed Professional Engineer in the State of Minnesota.

VIII. FACILITY PERSONNEL TRAINING PROGRAM

See Section VII, Item A, for an evaluation of the facility training program and the MPCA chart on Page 6 of this report for a summary of past and future MPCA training events.