

## APPENDIX E

### EROSION AND SEDIMENT CONTROL MEASURES

The purpose of general site erosion control is to minimize erosion and limit the potential for sediment run-off into surface waters. It is important to plan ahead because erosion is often very difficult to control (with 100% accuracy) once it begins. Erosion control plans generally address this problem by following these principles:

1. Diverting runoff from the undisturbed area around the actively mined area to the extent possible.
2. Stabilizing any area that has recently been disturbed with quick-growing vegetation, mulch or equivalent methods as soon as possible.
3. Installing permanent and temporary sedimentation ponds and catchment basins.
4. Ensuring proper siting and stabilization of soil and overburden stockpiles.

There are many different ways to reduce or eliminate erosion and control sedimentation. Here is a partial list of best management practices for erosion control at mining sites:

- Check dams
- Energy dissipaters
- Buffer areas
- Straw bales
- Erosion control blankets
- Mulch or artificial surface cover
- Silt fences
- Sediment basins
- Surface water diversions
- Cover crop of vegetation

If you need additional resources, please access the Wisconsin Storm Water Management Program webpage: <http://www.dnr.state.wi.us/org/water/wm/nps/stormwater.htm>.

Although we are not directly addressing urban runoff, applicable schematics for the proper use of straw bales and silt fences is available. The document is titled *Erosion Control for Homebuilders* (1993). This publication can be ordered from the UW-Extension at (608) 262-3346 or (toll free) 1-877-947-7827 and from the WI Department of Administration Document Sales at (608) 266-3358. Alternatively, the document can be downloaded as a pdf file by opening the following webpage: <http://clean-water.uwex.edu/pubs/sheets/index.html>.

You might also want to consult with the *Wisconsin Construction Site Best Management Practice Handbook* (1993) also available from the WI Dept. of Admin. Document Sales.

Another useful document was prepared by the Utah Division of Oil, Gas and Mining entitled *The Practical Guide to Reclamation in Utah* (2000). There are numerous graphical representations of erosion sediment control features and structures in this document, available on-line, that can assist in the understanding, planning and preparation of a reclamation plan. Please see Appendix B to learn how to obtain and/or to visit the document on-line.

Additional references are included in Appendix B. This may be useful when determining the necessary level of erosion and sediment control for your project site.

