

APPENDIX E MONITORING PLAN

The purpose of this monitoring plan is to help prevent problems that may be preventable through identification and prompt remediation efforts. A sample schedule for monitoring and inspection of the landfill facilities to ensure proper operation and maintenance is provided in the Appendix H. Listed below are monitoring guidelines for groundwater monitoring, leachate monitoring and control system, and landfill gas monitoring system.

1. Groundwater Monitoring System

There is not a ground water monitoring system at the Uintah County Municipal Landfill because of site conditions listed in the current engineering report. The landfill is exempt from groundwater monitoring.

2. Leachate Monitoring and Control System

The Class I Landfill is equipped with a leachate monitoring sump. The station is comprised of a 40' drain providing gravity flow to a centrally located sump positioned at the lowest elevation of Cell 1 and down gradient from Cells 2, 3, and 4. The landfill does not currently monitor for leachate, however, this sump is available for future monitoring if necessary.

3. Landfill Gas Monitoring System

The Tri-County Health Department has agreed to contract with Uintah County and will be responsible for quarterly monitoring of landfill gases. If any gas is generated it will be expected to accumulate under areas of the trench which have been filled and covered, and may extend to the sides of the trench. The Landfill Supervisor will coordinate activities with the health department to perform gas monitoring on a quarterly basis using a methane detection meter capable of measuring methane at

levels below the Lower Explosive Limit for methane. Gas monitoring is to be done near the boundary of the landfill to determine if migration of methane is occurring. Gas will be measured by inserting a steel rod into the ground about 50 feet from the edge of the trench, removing the rod and inserting the gas probe. Direct readings shall be recorded in a log book.