



LEACHATE EVAPORATOR 30-DAY PILOT WORK PLAN

1. PURPOSE AND OBJECTIVE

The purpose of this Work Plan is to establish the procedures for conducting a 30-day pilot demonstration of a leachate evaporation system at the Scott Area Landfill.

The pilot is intended to evaluate the effectiveness of controlled atmospheric evaporation as a potential method for reducing the volume of collected landfill leachate requiring management. The pilot will be conducted on top of the landfill in an area that is fully contained within the existing landfill liner footprint.

The pilot will be operated in a controlled manner and will be designed to prevent:

- Discharge of leachate from the lined landfill area;
- Leachate runoff from the operating area;
- Ponding of leachate;
- Impacts to customers or facility operations;
- Impacts to areas outside the landfill liner footprint;

The 30-day pilot will provide operational data that can be used to determine the effectiveness and feasibility of the evaporation process and whether additional evaluation or a longer-term operating program is warranted.

The evaporator will not be operated continuously during the 30-day period. Evaporation will only occur during operating hours. Evaporation will be suspended during rainfall and when site conditions are not conducive to effective evaporation or could result in ponding or runoff.

A site plan identifying the proposed evaporator location and its relationship to the landfill liner limits will be provided as an attachment.

2. WEATHER OPERATING CONDITIONS

Weather conditions will be monitored throughout the pilot.

2.1 Rainfall

The evaporator **will not be operated during rainfall.**

If precipitation begins while the system is operating, the evaporator will be shut down or otherwise placed into a non-operating condition.

Operation will not resume until rainfall has ceased and the operating area has been inspected to verify that no ponding, runoff, or other conditions exist that would prevent safe and effective operation.

2.2 Unsuitable Weather Conditions

Operation may also be suspended when weather conditions are determined to be unsuitable for effective evaporation or could result in the accumulation of leachate.

Examples include:

- Rainfall;
- Significant periods of wet weather;
- Conditions resulting in visible ponding;
- Conditions resulting in runoff;
- Severe weather;
- High winds that could affect proper operation; or
- Any condition determined by the facility operator to present an unacceptable operational or environmental risk.

3. EVAPORATION EFFECTIVENESS MONITORING

The primary objective of the pilot is to determine the amount of leachate effectively processed through evaporation.

The operator will maintain daily operating records documenting, to the extent practicable:

- Date;
- Operating hours;

- Approximate volume of leachate supplied to the evaporator;
- Weather conditions;
- Rainfall;
- Visual observations regarding ponding;
- Visual observations regarding runoff;
- Any maintenance activities; and
- Any unusual conditions.

The collected data will be used to calculate an estimated evaporation rate and determine the overall effectiveness of the pilot.

4. CUSTOMER AND FACILITY OPERATIONS

The pilot will be located and operated so that it does not interfere with normal customer activities or landfill operations.

The evaporator will be located away from normal customer traffic, waste unloading areas, public access areas, and other locations where the equipment could create a conflict with facility operations.

5. PILOT PERFORMANCE EVALUATION

At the conclusion of the 30-day pilot, the facility will evaluate the results to determine the effectiveness of the evaporator.

The evaluation will consider:

- Total hours of operation;
- Total volume of leachate processed;
- Weather conditions;
- Number and duration of weather-related shutdowns;
- Evidence of ponding;
- Evidence of runoff;
- Overall feasibility of continued operation.

The facility will use the results to determine whether additional testing, modifications, or a longer-term operating program should be considered.



Active fill area

190 ft to solidification area

890 ft to w edge
of liner

Evaporator

650 ft. from E
edge of liner

480 ft to S edge
of liner