

ATTACHMENT II-8

POST-CLOSURE PLAN

I. OVERVIEW AND GENERAL REQUIREMENTS

1. The post-closure care period shall begin at final closure of the Mixed Waste Landfill Cell and shall continue for a period of at least 30 years. Post-closure care shall be performed in accordance with Utah Admin. Code R315-8-7.
2. Ground water monitoring shall be performed in accordance with Module VI, *Groundwater Monitoring*.
3. Leachate Detection/collection and Removal Monitoring shall be performed semiannually in accordance with Module V, *Disposal in Landfills*. Management of Leachate shall be in accordance with Attachment II-1-6, *Leachate, Evaporation, and Decontamination Waste Management Plan*.
4. Annual inspections, maintenance, and items requiring corrective action shall be completed and corrective action documented in accordance with this Attachment.
 - a. The inspector shall review the completed inspection checklist for the previous period to note problems previously cited. An example of a checklist to be used is provided as part of this Attachment. During the completion of the new checklist, the inspector shall pay particular attention to the progress made on any item that was previously observed to be out of compliance with the inspection standard.
 - b. General Facility Annual Inspection
 - i. Perimeter Inspection.
 - A. The inspector shall visually inspect fences, gates, and locks for the following:
 - (1) breaks;

- (2) gaps;
- (3) damage to the fence fabric;
- (4) missing fence posts;
- (5) missing gates;
- (6) damage from accidents with vehicles or equipment;
- (7) ability of gates to properly close and lock;
- (8) all fence heights are six feet;
- (9) vandalism; and
- (10) vegetation growing around or above fences.

B. Warning signs shall be inspected for the following:

- (1) visibility from a distance of at least 25 feet;
- (2) legibility from a distance of at least 25 feet; and
- (3) vegetation growing around or above warning signs.

C. The inspector shall check for the presence of surveyed benchmarks found at the northwest and southwest corners of Section 32.

ii. Mixed Waste Landfill Cell

A. The inspector shall observe the cover for evidence of the following:

- (1) erosion;
- (2) settlement;

- (3) subsidence;
- (4) displacement;
- (5) evidence of plant growth;
- (6) evidence of animal/insect activity; and
- (7) evidence of human activity.

B. The inspector shall inspect the cover drainage system for the following:

- (1) presence of erosion;
- (2) shifting from storms or precipitation;
- (3) present of animal/insect activity.

iii. Groundwater Monitoring Wells

A. The inspector shall inspect groundwater monitoring wells for the following:

- (1) cracks to the well, protective well casing, and concrete;
- (2) corrosion;
- (3) damage, or degradation such as dents, peeling paint, vandalism, holes, rust, and blistering paint;
- (4) foreign objects and materials in and around the wells;
- (5) frost heave;
- (6) damage to casing, lock ,and cap;
- (7) distance between the ground and the concrete apron (for wells with aprons);

- (8) general presence of all well system components (casing, pump, riser pipe, inner cap, casing cap, apron, lock, and well marker sign);
- (9) lichen growth;
- (10) rodent burrowing;
- (11) plant growth;
- (12) moss growth;
- (13) spider or insect nests; and
- (14) excreta from birds, rodents, mammals, or humans.

iv. Maintenance

- A. Performance of maintenance activities shall be based on inspection results.
- B. The maintenance or repair action required to correct a site problem shall be dependent upon the nature of the problem or hazard.
- C. When maintenance or repairs are required, a statement of work shall be prepared.
- D. After completion of maintenance or repair actions, the Permittee shall submit a report outlining maintenance or repair actions to the Director.

v. Corrective Actions (if required):

- A. Corrective Actions shall be taken as required to rectify problems threatening human health or the environment and items that may lead to a potential threat.

- B. Custodial maintenance or repair actions may include the following:
- (1) repair of fences;
 - (2) replacement of warning signs;
 - (3) reestablishment of survey control monuments;
 - (4) removal of vegetation from cover;
 - (5) control or eradication of burrowing animals or insects;
 - (6) replacement of erosion barrier rock cover materials;
 - (7) reconstruction of embankment slope segments where slumping, mass wasting, liquefaction, or other severe events have occurred; and
 - (8) reconstruction of site cover or other features because of extreme seismic events, extreme flooding, or other events.
- C. Schedule for corrective action(s)
- (1) Problems that pose an imminent threat to human health or the environment shall be corrected immediately.
 - (2) Problems that do not pose an imminent threat to human health or the environment shall be corrected within 72 hours of discovery unless an extension is requested prior to the end of the 72-hour period. At the time of notification, the Permittee shall propose a time schedule for correcting the problem. The correction schedule shall be approved by the Director.

- (3) Notable items shall be documented. A comprehensive list of these items shall be maintained and available for review.

II. RECORDKEEPING AND REPORTING

1. Documentation of required inspections shall be maintained in the site record.
2. Documentation shall include:
 - a. date of inspection;
 - b. time of inspection;
 - c. name of the inspector;
 - d. notation of observations made; and
 - e. date and nature of any repairs or other remedial actions.
3. The Permittee may make notes of items found to be in accordance with permit requirements. Documentation of such items is not required.
4. Post-Closure Notices
 - a. No later than 60 calendar days after certification of closure of the Mixed Waste Landfill Cell, the Permittee shall submit records of the type, location, and quantity of hazardous waste disposed within the cell, in accordance with Utah Admin. Code R315-8-7.
 - b. The Permittee shall certify that the post-closure care period was performed in accordance with the specifications in this Attachment.
 - c. Within 60 calendar days of certification of closure of the Mixed Waste Landfill Cell, the Permittee shall perform the following:
 - i. Record a notation on the deed to the Facility property that the land has been used to manage hazardous waste and

shall be managed under an Environmental Covenant in accordance with the Uniform Environmental Covenants Act, Utah Code Ann. § 57-25-101, *et seq*,

- ii. Its use is restricted under 40 CFR Subpart G regulations;
- iii. And the survey plat and record of the type, location, and quantity of hazardous waste disposed within the Mixed Waste Landfill Cell have been filed with the local zoning authority with jurisdiction over land use and with the Director, in accordance with Utah Admin. Code R315-8-7;
- iv. Submit a certification to the Director that a notation, in accordance with Utah Admin. Code R315-8-7, has been recorded.

POST-CLOSURE INSPECTION CHECKLIST
 (Example)

| | | |
|----------------------------------|--|-------------------|
| DATE: | | INSPECTOR: |
| PERIMETER INSPECTION | | |
| Fences | OK <input type="checkbox"/> FIX <input type="checkbox"/> | Comments: |
| Gates | OK <input type="checkbox"/> FIX <input type="checkbox"/> | |
| Locks | OK <input type="checkbox"/> FIX <input type="checkbox"/> | |
| Warning Signs | OK <input type="checkbox"/> FIX <input type="checkbox"/> | |
| MIXED WASTE LANDFILL CELL | | |
| Erosion | YES <input type="checkbox"/> NO <input type="checkbox"/> | Comments: |
| Settlement | YES <input type="checkbox"/> NO <input type="checkbox"/> | |
| Subsidence | YES <input type="checkbox"/> NO <input type="checkbox"/> | |
| Displacement | YES <input type="checkbox"/> NO <input type="checkbox"/> | |
| Plant Growth | YES <input type="checkbox"/> NO <input type="checkbox"/> | |

| GROUND WATER MONITORING WELLS | | |
|--|--|------------------|
| Cracks | YES <input type="checkbox"/> NO <input type="checkbox"/> | Comments: |
| Corrosion | YES <input type="checkbox"/> NO <input type="checkbox"/> | |
| Dents, peeling paint, holes, rust, | YES <input type="checkbox"/> NO <input type="checkbox"/> | |
| Vandalism | YES <input type="checkbox"/> NO <input type="checkbox"/> | |
| Foreign objects | YES <input type="checkbox"/> NO <input type="checkbox"/> | |
| Frost heave | YES <input type="checkbox"/> NO <input type="checkbox"/> | |
| Rodent burrowing | YES <input type="checkbox"/> NO <input type="checkbox"/> | |
| Lichen, moss, or Plant growth | YES <input type="checkbox"/> NO <input type="checkbox"/> | |
| Spider or insect nests | YES <input type="checkbox"/> NO <input type="checkbox"/> | |
| Excreta | YES <input type="checkbox"/> NO <input type="checkbox"/> | |
| MAINTENANCE PERFORMED: | | |
| | | |
| Statement of Work Prepared: | YES <input type="checkbox"/> NO <input type="checkbox"/> | |
| CORRECTIVE ACTIONS (IF REQUIRED): | | |
| | | |

END OF ATTACHMENT II-8