

 <b>SOLID WASTE DISPOSAL SITE PERMIT CLASS I</b>	<b>PERMITTEE REFUSE INC LOCKWOOD REGIONAL LANDFILL</b>	<b>PERMIT # SW214R01</b>
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**1 FACILITY SUMMARY**

The Lockwood Regional Landfill is a compacted cell, "area fill" MSWLF presently covering approximately 350 acres with a waste volume of approximately sixty four million eight hundred thousand cubic yards [64.8(10<sup>6</sup>)yds<sup>3</sup>]. Refuse Inc. is the operator of the Class I Municipal Solid Waste Site (MSW). The disposal area is constructed without a liner or leachate collection system however groundwater monitoring and methane monitoring are conducted. Upon reaching capacity, a final cover will be constructed, and the Permittee will be responsible for 30 years of post-closure care. The Landfill accepts waste predominantly from the local community and adjacent counties.

**1.1 GENERAL DESCRIPTION**

The Landfill is an area fill utilizing on-site borrow sources utilized for daily and intermediate soil cover consisting of approximately six (6) inches of soil material placed over the working face of an active refuse lift in conjunction with approved alternative covers.

Surface Water Management is accomplished by implementing three measures to reduce leachate formation:

1. Storm water run-on will be diverted around the Landfill by the construction of diversion channels.
2. The surface of the Landfill will be sloped for drainage.
3. Provide and maintain positive drainage of storm waters off of the Landfill and direct run-off waters to evaporation ponds at the western margin of the Landfill.

Vadose Zone monitoring systems monitor potential leachate migration out of the Landfill. Monitoring systems consist of suction Lysimeters installed within boreholes near the contact between unconsolidated soils and bedrock located at the western Landfill margin.

**1.2 OWNER/OPERATOR**

Refuse Inc.  
2401 Canyon Way  
Sparks, NV 89520

**1.3 FACILITY LOCATION**

Legal description—S ½ of Section 22, SW ¼ of Section 23m NW ¼ of Section 26, N ½ of Section 27 in Township 19 N, Range 21 East MDB&M in Storey County

**1.4 FACILITY DESIGN**

Permitted Design Summary

**Table 1**

Class I	Rev 00	Rev 01		Rev 02		Rev 03	
		New	Total	New	Total	New	Total
Disposal Area (acres)	350	0	350				
Maximum Elevation (amsl)	5060	0	5060				
Minimum Elevation (amsl)	4600	0	4600				
Disposal Capacity (yds <sup>3</sup> ) <sup>1</sup>	60(10 <sup>6</sup> ) yds	0	60(10 <sup>6</sup> ) yds				
Total Volume (yds <sup>3</sup> )	64.8(10 <sup>6</sup> ) yds	0	64.8(10 <sup>6</sup> ) yds				

**2 GENERAL PERMIT CONDITIONS**

<sup>1</sup> Disposal Capacity will vary depending upon soil needs to meet regulatory requirements for cover

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**2.1 DEFINITIONS**

Unless the context otherwise requires, the definitions used in this Permit have the meanings ascribed to them in NAC 444.5701 to 444.631.

“Landfill volume” means the quantity of space contained above the bottom liner and including the final cover of a landfill design.

“Landfill disposal capacity” means the quantity of solid waste, by volume, that can be placed in a landfill, given its landfill volume and plan of operations.

**2.2 PERMIT ACTIONS (NAC 444.643)**

This Permit is based upon the information submitted in the Permit application, and as approved by the Nevada Division of Environmental Protection. This Permit may be modified by the Division, for cause, in accordance with NAC 444.643 or if there is a change in the statutes or regulations upon which the issuance of the Permit is based, or if a modification is otherwise necessary to protect public health, safety and the environment. This Permit may be revoked or suspended if written notice is given by the solid waste management authority and the disposal site does not remain in compliance with the applicable statutes and regulations. The filing of a request by the Permittee for a Permit modification or termination, or a notification of planned changes or anticipated noncompliance, or termination of activities authorized in the Permit does not stay any Permit condition. The Permittee shall inform the Division of any deviation from or change in the operations as presented in the application, which may affect the Permittee's ability to comply with applicable regulations or conditions of this Permit. This Permit may be transferred to a subsequent owner or operator only if the solid waste management authority approves the transfer based on documentation of financial responsibility provided by the new owner or operator.

**2.3 AVAILABILITY OF PERMIT DOCUMENTS**

The Permittee shall keep, at the disposal site, a complete copy of this Permit and incorporated documents, as identified herein.

**2.4 COMPLIANCE WITH STATUTES AND REGULATIONS**

The Permittee shall comply with NRS 444.440 through 444.620, and NAC 444.570 through 444.7499, as applicable.

**2.5 DUTY TO PROVIDE INFORMATION**

The Permittee shall furnish to the Division, within a reasonable time, any relevant information which the Division may request to determine compliance with this Permit or to determine whether cause exists for modifying, revoking and reissuing, or terminating this Permit. The Permittee shall also furnish to the Division, upon request, copies of records required to be kept by this Permit.

**2.6 INCIDENT REPORTING**

The Permittee shall report any noncompliance, imminent or existing hazard from a release of waste or hazardous constituents, or from a fire or explosion at the facility, which may endanger human health or the environment. Such information shall be reported by telephone to 800-331-6337 within twenty-four (24) hours from the time the Permittee becomes aware of the circumstances. A written report shall be submitted within 15 days of the incident and shall include the following:

- i. Name and title of person making report;
- ii. Date, time, and type of incident;
- iii. Name and quantity of material(s) involved;

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- iv. A complete description of the occurrence and its cause;
- v. The extent of injuries, if any;
- vi. An assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable;
- vii. Estimated quantity and disposition of recovered material that resulted from the incident; and
- viii. Actions taken by the Permittee in response to the incident.

**2.7 REPORTING ANTICIPATED NON-COMPLIANCE**

The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity that may result in noncompliance with Permit requirements.

**2.8 INSPECTION AND ENTRY**

The Permittee shall allow the Nevada Division of Environmental Protection, or an authorized representative, upon the presentation of credentials or other documents as may be required by law to:

- i. Enter at reasonable times upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;
- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
- iii. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and
- iv. Sample or monitor at reasonable times, for the purposes of assuring Permit compliance or as otherwise authorized, any substances or parameters at any location subject to the Permit.

**2.9 CONSTRUCTION QUALITY ASSURANCE AND QUALITY CONTROL (NAC 444.645)**

The Permittee shall:

*Reserved*

**3 PERMIT DOCUMENTS**

The following documents, as submitted by the Permittee and approved by the Nevada Division of Environmental Protection also describe and/or restrict the operation of this disposal site:

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| <ul style="list-style-type: none"> <li>1. Siting Report and Environmental Monitoring - 1994</li> <li>2. Notice of Intent to Remain Operational - 1993</li> <li>3. Revised Hydrogeologic Report - 1994</li> <li>4. Design Report - 1994</li> <li>5. Revised Operating Plan - 2009</li> <li>6. Closure/Post Closure Maintenance Plan - 1994</li> <li>7. Facility Monitoring Plan - 1995</li> </ul> | <ul style="list-style-type: none"> <li>8. Alternative Cover Design - 10/02/2000</li> <li>9. Vegetation Modification - 1/14/08</li> <li>10. Lift thickness Modification - 7/6/2000</li> <li>11. Addendum to Facility Monitoring plan - 10/18/2002</li> <li>12. Low Flow Sampling Method - 5/12/2003</li> <li>13. Revised Operating Plan Update - 2/19/08</li> </ul> |
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**4 WASTE ACCEPTANCE CRITERIA**

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#### **4.1 SOLID WASTES PERMITTED FOR DISPOSAL**

##### Class I

1. Municipal Solid Waste
2. Construction and Demolition Waste
3. Petroleum contaminated media not to exceed 50,000 yds<sup>3</sup>/year and 600 mg/kg<sup>2</sup>
4. Animal Carcasses
5. BioSolids
6. Asbestos
7. Waste Tires
8. Reserved

#### **4.2 PROHIBITED SOLID WASTES**

The Permittee is prohibited from placing in the Class I landfill the following wastes:

1. Liquid waste as defined by NAC 444.692(4)
2. Hazardous waste, as defined NAC 444.580 (NRS 459.430)
3. PCB waste, as defined by NAC 444.6665
4. Other wastes detailed in Section 5.2.2 of the Facility Operating Plan
5. Reserved

#### **5 RECORDKEEPING**

**5.1** The Permittee shall maintain records at the site as described in section 4.5 of the Facility Operating Plan.

The owner or operator shall notify the solid waste management authority when the documentation has been placed in or added to the operating records. All information contained in the operating records must be furnished upon request to the solid waste management authority or be made available at all reasonable times for inspection by the solid waste management authority.

##### Class I Facility:

1. Any demonstration of restrictions on location required by NAC 444.678 to 444.6795, inclusive;
2. Records of inspection, training procedures and procedures for notification required by NAC 444.6665;
3. Results from the monitoring of gas and any remediation plans required by NAC 444.667;
4. Any documentation relating to the design of the municipal solid waste landfill unit for the placement of leachate or gas condensate in the unit as required by paragraph (b) of subsection 2 of NAC 444.692;
5. Any demonstration, certification, finding, monitoring, testing or analytical data from the program for monitoring ground water required by NAC 444.7481 to 444.7499, inclusive;
6. Plans for closure and postclosure and any monitoring, testing or analytical data required by NAC 444.6891 to 444.6896, inclusive; and
7. Any documentation of cost estimates and financial assurance required by NAC 444.685.

#### **6 REPORTING**

##### Class I Facility:

1. The operator of a Class I site shall submit quarterly to the Division a report of the solid waste received at the site. The report must be submitted on a form prescribed by the Division within 30 days following the end of each calendar year quarter.
2. The Permittee shall by January 31<sup>st</sup> 2009 and at least once every 5 years thereafter until the site is closed
  - i. Indicate the remaining volume and disposal capacity of the site;

<sup>2</sup> This does not include material originating from Publicly Owned Treatment Works as a result of either Water or Wastewater Operations

 <b>SOLID WASTE DISPOSAL SITE PERMIT CLASS I</b>	<b>PERMITTEE REFUSE INC LOCKWOOD REGIONAL LANDFILL</b>	<b>PERMIT # SW214R01</b>
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- ii. Indicate the volume used and waste disposed of since the original report of design; and
- iii. Calculate the remaining life of the site, in years.

**6.1 FINANCIAL ASSURANCE REPORTING. THE PERMITTEE SHALL:**

- 1. Notify the Division of any adjustments made to the estimates for the amounts of closure and post-closure care in accordance with NAC 444.6851 and 444.68515;
- 2. Each year within 30 days following the end of each calendar year of the issuance of this Permit, the Permittee shall submit the closure and post-closure cost estimates adjusted for inflation.

**6.2 NOTIFICATION OF NEW CELL CONSTRUCTION**

In accordance with NRS 444.556, the Permittee shall notify the Division in writing within 10 days following the commencement of construction of a new cell.

**6.3 All reports, notifications, or other submissions which are required by this Permit must be submitted by the specified due date to:**

Solid Waste Branch Supervisor  
Bureau of Waste Management  
Nevada Division of Environmental Protection  
901 S Stewart Street, Suite 4001  
Carson City, NV 89701-5249

**7 GROUNDWATER MONITORING**

Groundwater Monitoring shall be conducted in accordance with NAC 444.7481 through NAC 444.7498.

- 7.1 Any deviation from the ground water monitoring plan must be approved in advance by the Division as a Permit modification in accordance with NAC 444.6435.
- 7.2 The monitoring wells are to remain continuously locked except during sampling, inspection, and repairs. Keys must be available at the landfill office at all times.
- 7.3 Groundwater Monitoring Reports shall be submitted as required by Section 6.4 by February 1<sup>st</sup> and August 1<sup>st</sup> of each calendar year. The reports shall be submitted in both hardcopy and electronic format.

**8 MISCELLANEOUS CONDITIONS**

Reserved

**9 COMPLIANCE SCHEDULE**

- 1. The Permittee shall submit the daily dust control liquids usage for the year 2010 by 1/31/2011
- 2. Reserved

**10 AUTHORIZATION**

<i>Signature of Approving Officer</i>	<i>Name and Title of Approving Officer</i>	<i>Date of Issuance</i>
<i>Original Signed</i>	<b>R. Eric Noack, Chief Bureau of Waste Management</b>	12/17/09  <i>Date</i>