



SOLID WASTE DISPOSAL SITE PERMIT: Municipal Solid Waste Landfill

**Oregon Department of Environmental Quality
750 Front Street NE, Suite 120
Salem, OR 97301
Telephone: (503) 378-8240**

**Issued in accordance with the provisions of ORS Chapter 459 and
subject to the land use compatibility statement referenced below.**

ISSUED TO:

Riverbend Landfill Company, Inc.
(A Waste Management Company)
13469 SW Hwy 18
McMinnville, OR 97128
Telephone: (503) 472-8788

FACILITY NAME AND LOCATION:

Riverbend Landfill

Sections 1 & 12, T5S, R5W, W.M.
Yamhill County

OWNER:

Riverbend Landfill Company, Inc.
13469 SW Hwy 18
McMinnville, OR 97128
Telephone: (503) 472-8788

OPERATOR:

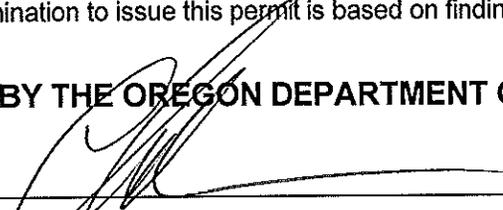
Riverbend Landfill Company, Inc.

ISSUED IN RESPONSE TO:

- a solid waste permit renewal application received December 29, 1997
- a Land Use Compatibility Statement from Yamhill County Planning Department dated May 6, 1992

The determination to issue this permit is based on findings and technical information included in the permit record.

ISSUED BY THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY



Charles W. Donaldson
Manager Solid Waste Programs, Western Region

3 December, 1999
Date

Permitted Activities

Until such time as this permit expires or is modified or revoked, the permittee is authorized to operate and maintain a solid waste land disposal site in conformance with the requirements, limitations, and conditions set forth in this document including all attachments.



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Introduction This document is a solid waste permit issued by the Oregon Department of Environmental Quality in accordance with Oregon Revised Statutes (ORS) 459 and Oregon Administrative Rules (OAR), Chapter 340.

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PERMIT ADMINISTRATION

1.0 ISSUANCE

1.1	In this section	This section describes the parameters surrounding permit issuance, including the following information: <ul style="list-style-type: none">• permittee• permit number• permit term• facility type• facility owner/operator• basis for issuance, and• definitions
1.2	Permittee	This permit is issued to Riverbend Landfill Company, Inc.
1.3	Permit number	This permit will be referred to as Solid Waste Permit Number 345.
1.4	Permit term	The issue date of this permit is the date signed by the Regional Administrator. The expiration date of this permit is December 1, 2009.
1.5	Facility type	The facility is permitted as a municipal solid waste landfill.
1.6	Facility owner/operator	The owner of this facility is: Riverbend Landfill Company, Inc. The operator of this facility is: Riverbend Landfill Company, Inc.
1.7	Basis for issuance	This permit is issued based upon the following documents submitted by the permittee: <ul style="list-style-type: none">• A solid waste permit application received December 29, 1997• A December 29, 1997 document supporting the application titled <i>Site Development Plan, Riverbend Landfill, McMinnville, Oregon</i>, prepared for the Permittee by Golder Associates• <i>Environmental Monitoring Plan, Riverbend Landfill</i>, prepared by CH2M Hill, dated August 28, 1997• <i>Leachate Irrigation Management Plan and Leachate Irrigation Operations Plan</i>, CH2M Hill, September, 1996• <i>Additional Hydrogeological Investigation</i> (and its addendum) dated July 29, 1994;• <i>Special Waste Management Plan, Riverbend Landfill</i>, Sanifill of Oregon, August 1993, with cover letter dated October 11, 1993, and,• <i>Land Use Compatibility Statement</i> from Yamhill County Planning Department dated May, 1992.
1.8	Definitions	Unless otherwise specified, all terms are as defined in OAR 340-93-030.



2.0 DISCLAIMERS

2.1	In this section	This section describes disclaimer information for the Department, including property rights and Department liability.
2.2	Property rights	The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights.
2.3	Department liability	The Department, its officers, agents, or employees do not sustain any liability on account of the issuance of this permit or on account of the construction, maintenance, or operation of facilities pursuant to this permit.

3.0 AUTHORITY

3.1	In this section	This section describes the authority of the Oregon Department of Environmental Quality to issue this permit, including the following information: <ul style="list-style-type: none">• 10 year permit• documents superseded• binding nature• other compliance, and• penalties
3.2	Ten year permit	This permit is issued for a maximum of 10 years as authorized by Oregon Revised Statutes 459.245 (2).
3.3	Documents superseded	This document is the primary solid waste permit for the facility, superseding all other solid waste permits issued for Riverbend Landfill by the Department.
3.4	Binding nature	Conditions of this permit are binding upon the permittee. The permittee is liable for all acts and omissions of the permittee's contractors and agents.
3.5	Other compliance	Issuance of this permit does not relieve the permittee from the responsibility to comply with all other applicable federal, state, or local laws or regulations. This includes the following solid waste requirements, as well as all updates or additions to these requirements: <ul style="list-style-type: none">• solid waste permit application received December 29, 1997• Oregon Revised Statutes, Chapters 459 and 459A• Oregon Administrative Rules Chapter 340, and• any documents submitted by the permittee and approved by the Department.
3.6	Penalties	Violation of permit conditions will subject the permittee to civil penalties of up to \$10,000 for each day of each violation.



4.0 PERMIT MODIFICATION

4.1 In this section	This section describes information about modification of this permit, including: <ul style="list-style-type: none">• 5 year review• modification• modification by Department• modification by permittee• public participation, and• changes in ownership
4.2 Five year review	Between the 4th and 6th year of the life of the permit, the Department will review the permit and determine whether or not the permit should be amended. While not an exclusive list, the following factors will be used in making that determination: <ul style="list-style-type: none">• compliance history of the facility• changes in volume, waste composition, or operations at the facility• changes in state or federal rules which should be incorporated into the permit• a significant release of leachate or landfill gas to the environment from the facility• significant changes to a Department-approved site development plan and/or conceptual design
4.3 Modification	At any time in the life of the permit, the Department or the permittee may propose changes to the permit.
4.4 Modification and revocation by Department	The Director may, at any time before the expiration date, modify, suspend, or revoke this permit in whole or in part, in accordance with Oregon Revised Statutes 459.255, for reasons including but not limited to the following: <ul style="list-style-type: none">• violation of any terms or conditions of this permit or any applicable statute, rule, standard, or order of the Commission• obtaining this permit by misrepresentation or failure to disclose fully all relevant facts, or• a significant change in the quantity or character of solid waste received or in the operation of the disposal site
4.5 Modification by permittee	The permittee must apply for a modification to this permit if there is a significant change in facility operations or a deviation from activities described in this document.
4.6 Public participation	Significant changes in the permit will be made public by the issuance of a public notice as required by Department rules.
4.7 Changes in ownership	The permittee must report to the Department any changes in either ownership of the disposal site property, or of the name and address of the permittee or operator within ten (10) days of the change.



ALLOWABLE ACTIVITIES

5.0 AUTHORIZATIONS

5.1 In this section	<p>This section describes the activities the permittee is authorized to conduct, including:</p> <ul style="list-style-type: none">• Wastes authorized for receipt• Authorization of other wastes• Authorization of activities• Tires for recycling, and• Salvaging and recycling
5.2 Wastes authorized for receipt	<p>This permit authorizes the facility to accept</p> <ul style="list-style-type: none">• Solid wastes as defined in OAR 340-93-030 (81), and• Wastes requiring special management as defined in OAR 340-93-190, according to the special waste management plan approved by the Department.
5.3 Authorization of other wastes	<p>Wastes excluded from the above authorization may be authorized for acceptance if:</p> <ul style="list-style-type: none">• the permittee develops a special waste management plan and submits it to the Department for approval• the Department approves the special waste management plan, and• the permittee can demonstrate that the materials do not constitute hazardous waste, as defined by state and federal regulations
5.4 Authorization of activities	<p>All facility activities are to be conducted in accordance with the provisions of this permit. All plans required by this permit become part of the permit by reference once approved by the Department. Any conditions of the approval are also incorporated into this permit unless contested by the permittee within 30 days of the receipt of a conditional approval.</p>
5.5 Tires for recycling	<p>This permit authorizes the facility to accept up to 100 whole tires for storage and removal at any given time.</p> <p>This permit authorizes the facility to accept up to 2,000 whole tires for storage and removal if the permittee maintains a continuous contract with a waste tire carrier to remove the tires from the site.</p>
5.6 Salvaging and recycling	<p>Salvaging and recycling are authorized if conducted in a controlled and orderly manner.</p>



6.0 PROHIBITIONS

6.1 In this section	<p>This section describes specific activities the permittee is prohibited from conducting, including:</p> <ul style="list-style-type: none">• hazardous waste disposal• liquid waste disposal• vehicle disposal• used oil disposal• battery disposal• tire disposal• recyclable material disposal• large appliance disposal, and• open burning
6.2 Hazardous waste disposal	<p>The permittee must not accept hazardous wastes including hazardous wastes from conditionally-exempt small quantity generators. <u>Reference:</u> Hazardous wastes are defined in ORS 466.005 and OAR 340 Division 101</p>
6.3 Liquid waste disposal	<p>The permittee must not accept liquid waste for disposal.</p> <p><u>Definition:</u> Liquid wastes are wastes that do not pass the paint filter test performed in accordance with EPA Method 9095</p>
6.4 Vehicle disposal	<p>The permittee must not accept discarded or abandoned vehicles for disposal.</p>
6.5 Used oil disposal	<p>The permittee must not accept used oil for disposal.</p>
6.6 Battery disposal	<p>The permittee must not accept lead-acid batteries for disposal.</p>
6.7 Tire disposal	<p>The permittee must not accept waste tires for disposal.</p>
6.8 Recyclable material disposal	<p>The permittee must not landfill or dispose of any source separated recyclable material brought to the disposal site.</p> <p><u>Exception:</u> If the source separated material is determined to be in a condition which makes the material unusable or not recyclable then it may be landfilled. This determination must be made after consultation with the Department.</p>
6.9 Large appliances	<p>The permittee must not knowingly accept for disposal large metal jacketed residential, commercial, and industrial appliances such as refrigerators, washers, stoves, and water heaters.</p>
6.10 Open burning	<p>The permittee must not conduct any open burning at the site.</p>



OPERATIONS AND DESIGN

7.0 OPERATIONS PLAN

7.1 In this section This section describes the requirements associated with a facility Operations Plan, including:

- operations plan
- plan content
- operations and maintenance manual
- plan and manual maintenance
- plan and manual compliance, and
- submittal address

7.2 Operations Plan Within 180 days of the permit issue date, the permittee must update and submit the site Operations Plan to the Department for approval. Upon approval, this plan is incorporated into this permit by reference.

7.3 Plan content The Operations Plan must describe the operation of the disposal site in accordance with all regulatory and permit requirements, including the following:

Content area	Describe plans for:
General operations	<ul style="list-style-type: none"> • handling and removal of unauthorized wastes discovered at the facility • management of landfill gas • management of landfill leachate • surface water and erosion control structure design • non-compliance response
Disposal operations	<ul style="list-style-type: none"> • placement of daily and intermediate cover • detecting and preventing the disposal of regulated hazardous wastes, polychlorinated biphenyl wastes, and any other unacceptable wastes as determined by the Department • disposal of putrescible wastes • disposal of cleanup materials contaminated with hazardous substances • fill progression and phasing
Special waste management plan	<ul style="list-style-type: none"> • identifying and characterizing wastes which require special management or waste streams not otherwise authorized by the permit • describe procedures for tracking and reporting all special wastes • load check procedures • identifying the source of all special wastes • determining appropriate handling procedures • documenting plan implementation, including waste characterization <p>References: OAR 340-93-190, OAR 340-94-040[11][b][J]</p>
Ancillary operations	<ul style="list-style-type: none"> • handling and removal of waste tires • management of transfer containers



Inspection and maintenance	<ul style="list-style-type: none"> maintaining truck/equipment washing equipment maintaining leachate and gas collection systems maintaining surface water control structures
Operating record	<ul style="list-style-type: none"> operating record location
Contingency	<ul style="list-style-type: none"> providing fire protection equipment notification of emergencies and fires to Department

Reference: OAR 340-94-040 describes requirements for preparation of an Operations Plan.

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- 7.4 Operations and Maintenance Manual** Within 90 days of approval of the Operations Plan, the permittee must prepare an updated Operations and Maintenance Manual which describes specific procedures for conducting routine and emergency operations at the site. A copy of the Operations and Maintenance Manual must be maintained in the Operating Record location and be available for Department review.
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- 7.5 Plan and Manual maintenance** The permittee must revise both the Operations Plan and the Operations and Maintenance Manual as necessary to keep them current and reflective of current facility conditions and procedures.
 The permittee must submit Operations Plan revisions to the Department for approval.
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- 7.6 Plan and Manual compliance** The permittee must conduct all operations at the facility in accordance with the approved Operations Plan, including any amendments, and the Operations and Maintenance Manual.
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- 7.7 Submittal address** All submittals to the Department under this section must be sent to:
 Oregon Department of Environmental Quality
 Manager, Solid Waste Program
 750 Front Street NE, Suite 120
 Salem OR 97301
 (503) 378-8240
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8.0 RECORDKEEPING AND REPORTING - OPERATIONS

8.1 In this section This section describes recordkeeping and reporting operational information for the facility, including:

- non-compliance reporting
- permit display
- access to records
- procedure, and
- submittal address

8.2 Non-compliance reporting In the event that any condition of this permit or of the Department's rules is violated, the permittee must immediately take action to correct the unauthorized condition and immediately notify the Department at:

(503)378-8240 x252

Response: In response to such a notification, the Department may conduct an investigation to evaluate the nature and extent of the problem, and to evaluate plans for additional corrective actions, as necessary.

8.3 Permit display The permittee must display this permit, or a photocopy thereof, where it can be readily referred to by operating personnel.

8.4 Access to records Upon request, the permittee must make all records and reports related to the permitted facility available to the Department.

8.5 Procedure The permittee must keep records and submit reports according to the following:

Step	Action
1	Establish a location for the Operating Record at the facility or another location mutually agreed with the Department.
2	Place information required by 40 CFR 258.29 in the Operating Record.
3	Collect information during facility operations on the amount of each type of solid waste received, recording "0" if the waste is not received. At a minimum, the following types of waste must be separately identified, and be categorized as being either in- or out-of-state wastes: <ul style="list-style-type: none">• municipal solid waste• industrial solid waste• petroleum-contaminated soil• approved alternative daily cover
4	Collect information about the amount of each material recovered for recycling or other beneficial purpose each quarter



5	Submit the information collected in Step 3 above on the Solid Waste Disposal Report/Fee Calculation form provided by the Department. Pay solid waste fees as required by OAR 340-97. <u>Date due:</u> submit to the Department on the last day of the month following the end of the calendar quarter
6	Submit the information collected in Step 4 above, on a form provided or approved by the Department, to the wasteshed representative. <u>Date due:</u> submit to the County Wasteshed Representative by January 25 of each year
7	Retain copies of all records and reports for five years from the date created.
8	Update all records such that they reflect current conditions at the facility.

**8.6 Submittal
address**

All submittals to the Department under this section must be sent to:
Oregon Department of Environmental Quality
Waste Management and Cleanup Division
Solid Waste Program
811 S.W. Sixth Ave.
Portland, OR 97204
(503)229-5913



9.0 SPECIFIC OPERATING CONDITIONS

9.1 In this section	<p>This section describes specific conditions to which site operations must conform, including:</p> <ul style="list-style-type: none">• Discovery of prohibited waste• Daily cover• Interim cover• Surface water structures• Storm water pollution control plan• Asbestos waste management• Leachate management systems• Litter control• Vector control• Air emissions• On-site roads, and• Landfill gas management
9.2 Discovery of prohibited waste	<p>Any solid wastes discovered at the facility which appear to be prohibited waste must be isolated or removed immediately. Non-hazardous prohibited waste must be segregated immediately, managed in a defined location away from the working face, and removed within 90 days to a disposal site authorized to accept such waste, unless otherwise approved by the Department.</p> <p>In the event discovered wastes are hazardous or suspected to be hazardous, the permittee must, within 7 days, notify the Department and initiate procedures to identify and remove the waste. Hazardous wastes must be removed within 90 days, unless otherwise approved by the Department. Temporary storage and transportation must be carried out in accordance with the rules of the Department.</p>
9.3 Daily cover	<p>At a minimum, all solid wastes must be covered with a layer of six inches of soil or an approved alternative daily cover of equivalent performance at the end of each working day.</p>
9.4 Interim cover	<p>Interim cover must be constructed and maintained as specified in Department-approved design and operations plans. Interim cover must be constructed over fill areas which will not receive additional waste for an extended period of time (i.e., greater than 120 days), and interim cover that is to remain exposed for more than two years must be actively revegetated as approved by the Department.</p>
9.5 Surface water structures	<p>All stormwater drainage structures must be maintained in good functional condition. Any significant damage must be reported to the Department and repairs made as soon as possible.</p>



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| 9.6 | Stormwater pollution control plan | As required by the National Pollutant Discharge Elimination System (NPDES) Storm Water Discharge Permit No. 1200-Z issued to Permittee by the Department, the Permittee must maintain and implement an updated Storm Water Pollution Control Plan (SWPCP), which at all times reflects actual site conditions. A current copy of the SWPCP must be maintained in the facility Operating Record. |
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| 9.7 | Asbestos waste management | Off loading and disposal of friable asbestos-containing solid waste must be conducted as specified in the Department-approved Operations Plan and Operations & Maintenance Manual, and in accordance with 40 CFR Parts 61 and 763, and OAR 340-32. |
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| 9.8 | Leachate management systems | The Permittee must operate the disposal site in a manner which deters leachate production to the maximum extent practicable. The Permittee must construct, operate and maintain in good functional condition all leachate containment, collection, detection, removal, storage and treatment systems approved by the Department. Leachate must be continuously removed from all landfill leachate collection systems, such that hydraulic head on the bottom liner is minimized and does not exceed one (1) foot. |
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| 9.9 | Leachate storage and treatment | Leachate must be prevented from escaping to local drainage ways and to other unlined areas of the site. Leachate storage lagoons must be maintained as non-overflow facilities with minimum of three (3) feet of dike freeboard above the water surface, unless otherwise approved by the Department. Public access to the lagoons must be controlled by fencing and all gates must be locked when an attendant is not on duty. Clearly legible and visible signs must be posted, stating the contents of the lagoons and "no trespassing". Spray irrigation of leachate (on lagoon, waste working face, or poplar trees) must be done in accordance with the Leachate Management Plan approved by the Department. All other leachate treatment options must be pre-approved by the Department before they can be placed into service. |
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| 9.10 | Leachate management plan (LMP) | Current site development plans require the decommissioning and removal of the leachate lagoon and the poplar tree spray irrigation area and development of these areas in to future landfill modules. At least 180 days prior to the commencement of the decommissionings of either the current leachate lagoon or the poplar tree spray irrigation area the permittee must submit three copies of a revised LMP that will account for the treatment of all leachate generated at this site. The LMP must detail each treatment option to be used and what volume each option is expected to treat. |
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| 9.11 | Litter control | The Permittee must implement procedures which minimize the scattering of windblown litter and provide for effective and timely collection of litter to ensure the appearance of a well-maintained facility and prevent nuisance conditions. |
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| 9.12 | Vector control | The Permittee must implement procedures which minimize insects, rodents, and birds at the active disposal area. |
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- 9.13 Air emissions** Air emissions (dust, malodors, air toxics, etc.) from construction, operation and all other activities at the disposal site must be controlled in compliance with Oregon's air quality standards.
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- 9.14 On-site roads** Roads from the landfill property line to the active disposal area and environmental monitoring locations must be constructed and maintained to minimize traffic hazards, dust and mud, and to provide reasonable all-weather vehicle access to active disposal units.
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- 9.15 Landfill gas management** Landfill gas must be controlled in accordance with the requirements of 40 CFR Parts 51, 52 and 60. Landfill gas collection, containment, removal and treatment systems must be maintained in good functional condition.
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10.0 SITE DEVELOPMENT AND DESIGN

10.1 In this section

This section describes site development and design requirements for continued use of the landfill, or any landfill expansion or new facility construction, including:

- baseline design criteria
 - site development plan
 - design plans
 - construction requirements
 - construction documents
 - construction report submittal
 - construction report content
 - approval to use, and
 - submittal address
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10.2 Baseline design criteria

Conceptual and detailed plans submitted for a new MSW landfill disposal unit pursuant to this permit must, at a minimum, provide for:

- A composite liner system which includes an approved geomembrane liner (not less than 60 mils in thickness when using high density polyethylene, and not less than 30 mils of thickness for other types of approved geomembranes) and at least two feet of compacted soil having an in-place permeability no greater than 1×10^{-7} cm/sec, or an alternative liner approved by the Department pursuant to 40 CFR Part 258.40(a)(1).
 - A primary leachate collection and removal system (LCRS) which fully covers the liner system. As required by 40 CFR 258.40(a)(2), the primary LCRS must function to maintain less than a one (1) foot depth of leachate over the liner. All leachate collection pipes must be serviceable by cleanout.
 - A secondary leachate collection and removal system(s) designed to effectively monitor the performance of the overlying composite liner system. The secondary leachate collection and removal system(s) must, at a minimum, be: (1) capable of detecting and collecting leachate at locations of maximum leak probability; and (2) hydraulically separated from groundwater to prevent erroneous monitoring results caused by infiltrating groundwater.
 - A leachate collection sump(s) having two composite bottom liners and a leak detection and removal system. Each composite liner must meet the minimum composite liner criteria described above in this subsection, or equivalent.
 - Construction of an appropriate operations layer above the primary LCRS, to protect the LCRS and liner system from damage.
 - If applicable, appurtenant leachate surface impoundments having two liners and a leak detection and removal system. One liner must meet the minimum composite liner criteria described above in this subsection.
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10.3 Site development plan	<p>Subject to the conditions of approval by the Department, site development and preparation of detailed design plans must be guided by the following information submitted in support of the renewal application:</p> <ul style="list-style-type: none">• <i>Site Development Plan, Riverbend Landfill, McMinnville, Oregon, December, 1997. Prepared by Golder Associates</i>• <i>Environmental Monitoring Plan, CH2M Hill, August, 1997</i>• <i>Leachate Management Plan and Leachate Irrigation Operations Plan (and its updates), CH2M Hill, September 30, 1996</i>• <i>Additional Hydrogeological Investigation (and its addendum), EMCON Northwest, July 29, 1994, and</i>• <i>Special Waste Management Plan, August 1993, with cover letter dated October 1993.</i>
10.4 Design plans	<p>The permittee must submit engineering design plans for new disposal units, closure of existing units, or other ancillary facilities directly related to the disposal of waste and/or waste by-products, for Department review and approval at least six months prior to the anticipated construction date. The design plans must be prepared and stamped by a qualified professional engineer with current Oregon registration.</p> <p>The engineering design plans must:</p> <ul style="list-style-type: none">• specify applicable performance criteria, construction material properties and characteristics, dimensions, and slopes, and• provide all relevant engineering analyses and calculations as a basis for the design
10.5 Construction requirements	<p>The permittee must perform all construction in accordance with approved plans and specifications, including all conditions of approval, and any amendments to those plans and specifications approved in writing by the Department.</p>
10.6 Construction documents	<p>Prior to construction of the final landfill cover, a new landfill unit disposal unit, or other waste containment unit at the site, the permittee must submit and receive written Department approval of complete construction documents for the project to be constructed. The construction documents submitted must:</p> <ul style="list-style-type: none">• define the construction project team• include construction contract documents specifying material and workmanship requirements to guide how the Constructor is to furnish products and execute work, and• include a Construction Quality Assurance (CQA) plan, describing the measures taken to monitor that the quality of materials and the work performed by the Constructor complies with project specifications and contract requirements <p><u>Reference:</u> Following the current <i>Solid Waste Guidance</i> will expedite Department review of the construction documents.</p>
10.7 Construction inspection	<p>During construction of a new landfill disposal unit or final landfill cover system, the permittee must provide the Department with a summary and schedule of planned construction activities in order to facilitate Department inspection during key periods of construction.</p>



10.8 Construction report submittal	Within 90 days of completing construction of a landfill disposal unit, a final cover system over an existing or new unit, or a major appurtenant facility, the permittee must submit to the Department a <u>Construction Certification Report</u> , prepared by a qualified independent party, to document and certify that all required components and structures have been constructed in compliance with the permit requirements and approved design specifications.
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10.9 Construction report content	The construction report must include: <ul style="list-style-type: none">• an executive summary of the construction project and any major problems encountered• a list of the governing construction documents• a summary of all construction and CQA activities• manufacturers certifications for conformance of all geosynthetic materials with project specifications• test data documenting soil materials conformance with project specifications• a summary of all CQA observations, including daily inspection records and test data sheets documenting materials deployment and installation in conformance with project specifications• problem identification and corrective measures implemented• designer acceptance reports for errors and inconsistencies• a list of deviations from design and material specifications, including documentation justifying the deviations, copies of change orders and recorded field adjustments, and copies of written Department approvals for deviations and change orders• signed certificates for subgrade acceptance prior to placement of soil liner and for acceptance of soil liner prior to deployment of geomembrane liner• photographs and as-constructed drawings, including record surveys of subgrade, soil liner, granular drainage layer and protective soil layer, and a certification statement(s) and signatures legally representing the CQA consultant, designer and facility owner, one of which is that of a professional engineer with current Oregon registration
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10.10 Approval to use	The permittee must not dispose of solid waste in newly constructed disposal units until the Department has accepted the Construction Certification. If the Department does not respond to the Construction Certification Report within 30 days of its receipt, the permittee may place waste in the unit.
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10.11 Submittal address	All submittals to the Department under this section must be sent to: Oregon Department of Environmental Quality Manager, Solid Waste Program 750 Front Street NE, Suite 120 Salem OR 97301 (503) 378-8240



11.0 RECYCLING REQUIREMENTS

11.1	In this section	<p>This section describes the requirements associated with recycling operations of source separated materials conducted at the facility:</p> <ul style="list-style-type: none">• materials• receiving location• material use• recycling information• sign, and• storage										
11.2	Materials	<p>The permittee must provide a place for receiving the following recyclable materials:</p> <table><tr><td><input checked="" type="checkbox"/> ferrous scrap metal</td><td><input checked="" type="checkbox"/> non-ferrous scrap metal (including aluminum)</td></tr><tr><td><input checked="" type="checkbox"/> motor oil</td><td><input checked="" type="checkbox"/> corrugated cardboard and kraft paper (brown paper bags)</td></tr><tr><td><input checked="" type="checkbox"/> newspaper</td><td><input checked="" type="checkbox"/> tin cans</td></tr><tr><td><input checked="" type="checkbox"/> container glass</td><td></td></tr><tr><td><input type="checkbox"/> hi-grade office paper</td><td></td></tr></table>	<input checked="" type="checkbox"/> ferrous scrap metal	<input checked="" type="checkbox"/> non-ferrous scrap metal (including aluminum)	<input checked="" type="checkbox"/> motor oil	<input checked="" type="checkbox"/> corrugated cardboard and kraft paper (brown paper bags)	<input checked="" type="checkbox"/> newspaper	<input checked="" type="checkbox"/> tin cans	<input checked="" type="checkbox"/> container glass		<input type="checkbox"/> hi-grade office paper	
<input checked="" type="checkbox"/> ferrous scrap metal	<input checked="" type="checkbox"/> non-ferrous scrap metal (including aluminum)											
<input checked="" type="checkbox"/> motor oil	<input checked="" type="checkbox"/> corrugated cardboard and kraft paper (brown paper bags)											
<input checked="" type="checkbox"/> newspaper	<input checked="" type="checkbox"/> tin cans											
<input checked="" type="checkbox"/> container glass												
<input type="checkbox"/> hi-grade office paper												
11.3	Receiving location	<p>The place for receiving recyclable material must be located at the disposal site or at another location more convenient to the population served by the disposal site. The recycling center must be available to every person whose solid waste enters the disposal site.</p>										
11.4	Material use	<p>All source separated recyclable materials must be reused or recycled.</p> <p><u>Exception:</u> If the source separated material is determined to be in a condition which makes the material unusable or not recyclable then it may be landfilled. This determination must be made after consultation with the Department.</p>										
11.5	Recycling information	<p>The permittee must provide recycling information to disposal site users on printed handbills which includes the following:</p> <ul style="list-style-type: none">• the location of the recycling center at the disposal site or another location• the hours of operation of the recycling center• instructions for correct preparation of accepted source separated recyclable material• the material accepted for recycling, and• reasons why people should recycle										
11.6	Sign	<p>A sign must be prominently displayed which indicates:</p> <ul style="list-style-type: none">• the availability of recycling at the disposal site or another location <p><u>Note:</u> the sign must indicate the recycling center location, if not at the disposal site</p> <ul style="list-style-type: none">• the materials accepted at the recycling center, and• the hours of operation of the recycling center (if different than disposal site hours)										
11.7	Storage	<p>All recyclable materials, except car bodies, white goods and other bulky items, must be stored in containers unless otherwise approved by the Department.</p>										



ENVIRONMENTAL MONITORING

12.0 SITE CHARACTERIZATION

12.1 In this section	<p>This section describes requirements for site characterization of the facility, including:</p> <ul style="list-style-type: none">• Approved Footprint• Workplan, and,• Site Characterization Report.
12.2 Approved footprint	<p>The current approved footprint of this landfill is defined as the area covering landfill modules 1-7, the leachate lagoon, and the poplar tree spray irrigation area</p>
12.3 Workplan	<p>At least 270 days prior to any expansion or relocation outside of the approved footprint of either new landfill construction or the leachate lagoon (including the poplar tree spray irrigation area), the permittee must submit, for approval, three copies of a detail workplan describing site characterization completed to date and further site characterization to be accomplished. The workplan must include, at a minimum:</p> <ul style="list-style-type: none">• Description of the expansion;• How the expansion area will be monitored;• Update of the EMP and other plans;• Type of investigation to be conducted; and,• Schedule of events and submissions. <p>The Department will respond within 120 days of receiving the final submission of the workplan. If the Department has not responded within this time period the workplan is approved as submitted.</p>
12.4 Site characterization report	<p>Within 150 days of the Department's approval of the SCR workplan, the permittee must submit three copies of a Site Characterization Report to the Department for approval. This report must follow the workplan approved by the Department, including any conditions of the approval. The report must be prepared and stamped by an Oregon Registered Geologist or an Oregon Registered Engineering Geologist. The SCR must be submitted and approved before construction can begin.</p> <p>The Department will respond within 120 days of receiving the final submission of the SCR. If the Department has not responded within this time period the SCR is approved as submitted.</p> <p><u>Reference:</u> The <i>Solid Waste Landfill Guidance, September 1996</i>, provides information on applicable elements of a Site Characterization Report. Following the organizational format provided in the Guidance will expedite Department review of the plan.</p>



13.0 ENVIRONMENTAL MONITORING PLAN (EMP)

- | | | |
|-------|------------------------------|--|
| 13.1 | In this section | <p>This section describes requirements for an environmental monitoring plan for the facility, including:</p> <ul style="list-style-type: none">• Revised EMP submittal• EMP contents• EMP maintenance• EMP compliance• Long-term monitoring plan• Additional monitoring points, and• Submittal address. |
| <hr/> | | |
| 13.2 | Revised EMP Submittal | <p>Within 120 days of the permit issue date, the permittee must submit, for approval, three copies of an updated Environmental Monitoring Plan (EMP) to the Department. The plan must be prepared and stamped by either: an Oregon Registered Geologist; an Oregon Professional Engineer; or, an Oregon Registered Engineering Geologist with experience in hydrogeological investigations. Upon approval, this plan is incorporated into this permit by reference.</p> <p><u>Note:</u> Whenever possible, the permittee must submit two-sided copies of this plan</p> |



13.3 EMP contents

The updated EMP must include plans implementing an environmental monitoring program that will characterize potential facility impacts. The updated plan may consist of the previous approved EMP with any changes or additions since that time (i.e., approved permit-specific concentration limits, revised parameter lists, revised schedules, new wells). The updated EMP must include the following contents:

- Monitoring Network Design;
- Monitoring Network Construction;
- A Sampling and Analysis Plan;
- Field QA/QC Procedures;
- Lab QA/QC Procedures;
- Data Analysis and Evaluation;
- How you will report this information to the Department;
- Provide an executive summary format as per sections 17.3
- A revised Table 1 (as found in the August 1997 EMP) that reflects the following changes:
 1. For every sample event, all wells and piezometers must be measured for water level and a piezometric map constructed for each water bearing zone;
 2. Quarterly Sampling at all wells installed after 1/1/98 and MW-13A&B, MW-14A&B, MW-15A&B, and MW-16A&B. Once the Department has approved the permit-specific concentration limits (PSCLs) or Action Limits (ALs) for a given well then that well can begin semi-annual sampling immediately; (see Section 15.5 on how to set PSCL's and/or AL's)
 3. Semi-annual Sampling (Spring and Fall) at wells MW-5A, MW-7A, MW-11A, and MW-12A&B;
 4. Annual Sampling (Spring only) at wells MW-5B, MW-7B, and MW-11B;
 5. Split Samples all MW wells and P-01, P-02, and P-04A&B.

What to sample for will remain unchanged in Table 1. Those wells or sample events not covered in Table 1 must be added to the updated EMP.

Reference: The *Solid Waste Landfill Guidance, September 1996*, provides information on applicable elements of what the department considers an acceptable Environmental Monitoring Plan. Following the organizational format provided in the Guidance will expedite Department review of the plan.

13.4 EMP maintenance

The permittee must revise the EMP as necessary to keep it current and reflective of current facility conditions, procedures, and sampling requirements or changes. The permittee must submit all EMP revisions to the Department for approval.

13.5 EMP compliance

The permittee must conduct all environmental monitoring at the facility in accordance with the approved EMP, including any conditions of approval, amendments and updates.



13.6 Long-term monitoring plan

After approval of any PSCLs and/or ALs, the permittee must update the EMP to reflect these new compliance levels and any other changes to the long-term monitoring plan.

Note: See also the requirements for establishing PSCLs in this permit

13.7 Additional monitoring points

Any new or replacement monitoring point or device established during the time frame of this permit must be incorporated into the environmental monitoring plan. The updated plan must be resubmitted to the Department for approval.

13.8 Submittal address

All submittals to the Department under this section must be sent to:
Oregon Department of Environmental Quality
Manager, Solid Waste Program
750 Front Street NE, Suite 120
Salem OR 97301
(503) 378-8240



14.0 ENVIRONMENTAL SAMPLING REQUIREMENTS

14.1 In this section

This section also describes general sampling requirements, including:

- Notification
- Split sampling
- Monitoring schedule
- Monitoring after EMP approval, and
- Changes in sampling or split sampling

14.2 Notification

The permittee must notify the Department in writing of all upcoming sampling events at least ten (10) working days prior to the scheduled date of the sampling event at the following address:

Oregon Department of Environmental Quality
 Manager, Solid Waste Program
 750 Front Street NE, Suite 120
 Salem, OR 97301
 (503) 378-8240 x252

14.3 Split sampling

The permittee must split samples with the Department when requested, and must schedule all requested split-sampling events with the Department laboratory at least forty-five (45) days prior to the sampling event.

The following sampling events must be conducted as split sampling events with the Department:

Fall 2002

Spring 2008

14.4 Monitoring schedule

The permittee must perform groundwater monitoring as defined in Table 1 of the current EMP for Parameter Groups 1, 2, and 3. The table below defines the time period for each quarter:

If sampling in the...	schedule the sampling event	
	On or after....	But, On or before...
Winter	January 1	February 28
Spring	April 1	May 31
Summer	July 1	August 31
Fall	October 1	November 30

Reference: Parameter Groups are listed in Attachment 1.

14.5 Changes in sampling or split sampling

The Department reserves the right to add to or delete from the list of scheduled sampling events, sample locations, parameters to be sampled for, and to conduct unscheduled samplings or split sampling.

In the event of changes to the split sampling schedule, the Department will make every effort to notify the permittee of the changes at least 30 days prior to the split sampling event.



15.0 ESTABLISHING PERMIT-SPECIFIC CONCENTRATION AND ACTION LIMITS

15.1 In this section	<p>This section describes requirements for PSCLs for groundwater monitoring, including:</p> <ul style="list-style-type: none">• Gathering data;• Future units;• Statistical analysis;• Proposing PSCLs or ALs; and,• Changing PSCLs or ALs
15.2 Gathering data	<p>Monitoring of the background wells in accordance with the approved Environmental Monitoring Plan must be conducted until all necessary data sets have been collected, and permit-specific concentration or action limits are proposed for each individual parameter. If an intrawell approach is to be used to set PSCLs or ALs then the permittee must demonstrate to the Department's satisfaction that the data is valid and that no impacts from the facility have influenced the data.</p>
15.3 Future units	<p>For future units, the permittee must collect a sufficient number of samples to determine background groundwater quality prior to the placement of waste in the new cells.</p>
15.4 Statistical analysis	<p>The permittee must perform statistical evaluations of monitoring results for each sampling event in accordance with 40 CFR 258.53 or other methods approved of in advance by the department in order to establish compliance concentration or action limits.</p> <p><u>References:</u> <i>Statistical Analysis of Groundwater Monitoring Data at RCRA facilities, Addendum to Interim Final Guidance, USEPA, June 1992; and, Statistical Guidance for all RCRA Sites, DEQ:SWPC, August 3, 1992.</i></p>
15.5 Proposing PSCLs or ALs	<p>The permittee must propose to the Department, for review and approval, PSCLs or ALs pursuant to the guidelines specified in OAR 340-40. Either a PSCL or an AL must be generated for all parameters the Department deems necessary that are to be included in the long-term monitoring of the site once there are at least nine acceptable data points from the appropriate background well(s) as established under this permit.</p>
15.6 Changing PSCLs or ALs	<p>If the permittee can demonstrate, to the Department's satisfaction, that the background groundwater quality has significantly changed since a PSCL or AL was established, and this change is not due to any influence from the permitted facility, then the permittee can propose for Department approval a revised level of the PSCL(s) or AL(s) that are affected.</p>



16.0 ENVIRONMENTAL MONITORING STANDARDS

- 16.1 In this section** This section describes requirements for evaluating compliance with environmental monitoring standards, including:
- Rule
 - Compliance Wells
 - Review of monitoring results
 - Resampling Results
 - Secondary leachate collection system
 - Methane limits, and,
 - Methane exceedance.
-
- 16.2 Rule** The permittee must not allow the release of any substance from the landfill into groundwater which will result in a violation of any applicable federal or state groundwater or drinking water rules or regulations beyond the solid waste boundary of the disposal site or an alternative boundary specified by the Department.
-
- 16.3 Compliance wells** The following wells are designated as compliance wells:
- | <u>Silt/Clay WBZ</u> | <u>Sand/Gravel WBZ</u> |
|----------------------|------------------------|
| MW-12A | MW-12B |
| MW-13A | MW-13B |
| MW-14A | MW-14B |
| MW-15A | MW-15B |
| MW-16A | MW-16B |
-
- 16.4 Review of results** The permittee must review the analytical results after each monitoring event according to the following table.

If data show results...	then...
above any one permit-specific concentration limit or any three or more action limits (if established), or indicating a significant change in water quality at any monitoring point. <u>Examples of significant changes:</u> <ul style="list-style-type: none"> • Detection of a VOC or other hazardous constituent not detected in background; • Exceedance of a Table 1 or 3 value listed in OAR 340-40 unless the background water quality is above these numerical limits; • Exceedance of a Safe Drinking Water Standard; • Detection of a compound in an order of magnitude higher than background. 	1. Notify the Department within 10 days of receipt of laboratory results, and 2. Perform resampling immediately and evaluate results as described below <u>Note:</u> If this is a known release, previously confirmed to the Department in writing, resampling is not required. Resampling must be completed and results reviewed within three months of the original sample date.
none of the above	continue groundwater monitoring with next scheduled sampling event

Note: Permit-specific concentration limits established to date are listed in Attachment 2.



16.5 Resampling results

Upon receipt of data from resampling, the permittee must review the results according to the following table.

If resampling data show results...	Then...
that confirm the exceedance of a permit-specific concentration limit	<ol style="list-style-type: none"> 1. notify the Department within 10 days of receipt of laboratory data, or within 60 days of the sample date (whichever comes sooner) 2. submit a Remedial Investigation workplan for Department approval within 90 days of the date of resampling. Plan must specify how the objectives of OAR 340-40 will be met by the proposed investigation. This will include the monitoring of Group 4 parameters, in addition to routine detection monitoring.
that confirm that three or more action limits were exceeded, or there is a significant change in water quality results noted	<ol style="list-style-type: none"> 1. notify the Department within 10 days of receipt of laboratory data, or within 60 days of the sample date (whichever comes sooner) 2. submit a plan within 90 days of the date of resampling (unless another time period is authorized) for developing an assessment program to the Department.
that do not confirm the results noted in the routine sampling event	<ol style="list-style-type: none"> 1. continue with routine monitoring 2. discuss the data from the routine sampling event and the resampling results in the next annual environmental monitoring report

16.6 Secondary leachate collection system

If the Permittee observes the presence of liquids in the secondary leachate collection system the Permittee must commence the sampling and analysis and reporting procedures defined in the Department approved Environmental Monitoring Plan (EMP). Each new cell and sub-cell with a secondary leachate collection system must be able to be sampled discretely, no mixing, commingling or composite samples from other leachate sources is allowed.

16.7 Methane limits

The concentration of methane must not exceed:

- 25 percent of the Lower Explosive Limit for methane in onsite structures (excluding gas control structures or gas recovery system components), or
- the Lower Explosive Limit for methane at the facility boundary

Note: The Lower Explosive Limit for methane is 5 percent.

16.8 Methane exceedance

If methane levels exceed the specified limits, then the permittee must:

1. immediately take all necessary steps to ensure protection of human health;
2. within 7 days of detection (unless the Department approves an alternative schedule), enter the methane levels in the operating record and describe measures taken to protect human health and safety;
3. within 60 days of detection, implement a remediation plan for the methane releases, incorporate the plan into the monitoring records, and notify the Department that the plan has been implemented.



17.0 RECORDKEEPING AND REPORTING – ENVIRONMENTAL MONITORING

- | | | |
|------|---------------------------------|---|
| 17.1 | In this section | <p>This section describes recordkeeping and reporting requirements associated with environmental monitoring, including:</p> <ul style="list-style-type: none">• Annual environmental monitoring report;• Statement of compliance;• Annual monitoring report contents;• Annual leachate treatment report;• Leachate treatment report contents;• Submittal address;• Split sampling submittal;• Lab address; and,• Department response to split samples. |
| 17.2 | Annual monitoring report | <p>By March 15th of each calendar year for the duration of this permit, the permittee must submit to the Department three copies of an annual monitoring report covering the previous calendar year. The report must be prepared and stamped by either: an Oregon Registered Geologist; an Oregon Professional Engineer; or, an Oregon Registered Engineering Geologist with experience in hydrogeological investigations and must follow the format approved in the Environmental Monitoring Plan.</p> <p><u>Note: Whenever possible, the permittee must submit two-sided copies of all reports</u></p> |
| 17.3 | Statement of compliance | <p>A short (approximately one-page) cover letter must accompany the Annual Environmental Monitoring Report that:</p> <ul style="list-style-type: none">• compares the analytical results with the relevant monitoring standards (PSCLs and ALs)• states whether or not federal or state standards were exceeded for the relevant media• states whether or not a significant change in water quality occurred |
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17.4 Annual monitoring report contents

Each annual monitoring report must reflect actual and true conditions at the facility. Data presented in the reports must be error-free as compared to the original lab data. The annual report, at a minimum, must contain:

- Review of all significant events that occurred at the site during the last year;
- Review of the monitoring network performance and recommendations for improvements;
- Summary of all the data collected in the past year [GW,SW, Leachate (lagoon and SLCS), and LFG];
- A summary of any data problems (examples could include QA/QC failures, flagged data, switched samples, etc.);
- Piezometric maps from each sampling event for both WBZ of concern;
- Time history plots for all group 1b and group 2 parameters;
- Stiff and Piper diagrams for all group 1b and group 2 parameters;
- For each sample event an anion-cation balance;
- A copy of all lab data for the past year (Note: lab data can be omitted from the annual report if the permittee agrees in writing to keep copies available until the permit is terminated and the permittee agrees to supply copies to the Department within 72 hours of a written request).

17.5 Annual leachate treatment report

By March 15th of each calendar year for the duration of this permit, the permittee must submit three copies of an annual summary monitoring report for the leachate treatment program.

Note: Whenever possible, the permittee must submit two-sided copies of all reports

17.6 Annual leachate treatment report contents

This annual report must include at a minimum:

- contents that satisfy the conditions of the Leachate Management Plan;
- a review of all significant events that occurred at the site during the last year regarding leachate issues;
- a review of the monitoring network performance and recommendations for improvements;
- a summary of site conditions and a compilation of the monitoring and analysis data collected during the previous year's leachate irrigation program;
- assessment of potential human health risk, relative to any reasonably foreseeable biological hazard exposure;
- the monthly volume of leachate removed from each primary leachate collection sump;
- the monthly volume of leachate disposed by each implemented leachate treatment method; and,
- the monthly volume of liquid removed from each secondary leachate collection sump, servicing a disposal unit(s).

Reference: Information to be contained in this report should be formatted according to the guidelines presented in Attachment II - "Standards for Leachate Spray Irrigation Management" dated August 10, 1993.



17.7 Submittal address

Except where otherwise noted, all submittals to the Department under this section must be sent to:

Oregon Department of Environmental Quality
Manager, Solid Waste Program
750 Front Street NE, Suite 120
Salem OR 97301
(503) 378-8240

17.8 Split sampling submittal

Within 90 days of any split sampling event, the permittee must submit the following information from the split sampling event to the Department's laboratory:

- a copy of all information pertinent to the sample collection handling, transport and storage, including field notes
- copies of all laboratory analytical reports
- copies of all laboratory QA/QC reports
- site map showing flow directions and contours, and
- any other data or reports requested by the Department

17.9 Lab address

All split sampling reporting must be sent to:
Oregon Department of Environmental Quality
Lab, Groundwater Monitoring Section
1712 SW 11th Avenue
Portland, OR 97201
(503) 229-5983

17.10 Department response to split samples

If requested by the permittee and after the permittee has submitted all split sampling data information, the Department lab may send the permittee a copy of:

- the Department's analysis of the split sample
- a copy of the QA/QC report
- a copy of the analytical report, and/or
- a copy of field data sheets, field notes, and chain of custody



18.0 ENVIRONMENTAL MONITORING NETWORK

18.1 In this section	<p>This section describes requirements for the environmental monitoring network, including:</p> <ul style="list-style-type: none">• Well installation• Monitoring devices• Damage reporting• Device construction• Construction reporting• Recommendation to abandon• Gas system maintenance, and,• Gas system damage repair.
18.2 Well installation	<p>For future units, the permittee must ensure that Department-approved background and detection and/or compliance wells are in place for any future units, at least 12 months before refuse is accepted for disposal in the new cells. This requirement may be waived or modified by the Department.</p>
18.3 Monitoring devices	<p>The permittee must protect, operate, and maintain gas, groundwater, leachate, and surface water monitoring devices so that samples representative of actual conditions can be collected.</p>
18.4 Damage reporting	<p>Any damage to a monitoring device must be reported to the Department in writing within fourteen days of the discovery, along with a description of proposed repair or replacement measures and a time schedule for completion of this work.</p> <p><u>Examples:</u> damage impairing well function or changing the physical location to any degree</p>
18.5 Device construction	<p>All monitoring well abandonment (decommissions), replacements, repairs, and installations must be conducted to comply with the Water Resources Department Rules OAR 690-240 and with the Department's <i>Guidelines for Groundwater Monitoring Well Drilling, Construction, and Decommissioning</i> dated August 1992.</p>
18.6 Construction reporting	<p>All monitoring well repairs, abandonments, replacements, and installations, including driller's logs, well location information, and construction information must be documented in a report prepared and stamped by an Oregon Registered Geologist or Oregon Registered Engineering Geologist and must be submitted to the Department within thirty (30) days of the action and included in the next Annual Monitoring Report.</p>



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|-------------|----------------------------------|---|
| 18.7 | Recommendation to abandon | <p>The permittee must submit a recommendation to the Department to decommission or replace any well in the monitoring network that:</p> <ul style="list-style-type: none">• has been installed in a borehole that hydraulically intersects two saturated stratas,• does not have the corresponding and necessary supporting documentation of appropriate installation or construction, or• is damaged or destroyed during the time frame of this permit |
|-------------|----------------------------------|---|
-
- | | | |
|-------------|-------------------------------|---|
| 18.8 | Gas system maintenance | <p>The permittee must maintain in good working order the landfill gas monitoring system such that monitoring results are representative of actual soil-gas concentrations. This also includes operating and maintaining in good working order the landfill gas containment, collection, removal, treatment, and monitoring system such that nuisance odors are deterred to the maximum extent practical and methane concentrations do not exceed compliance limits.</p> |
|-------------|-------------------------------|---|
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- | | | |
|-------------|---------------------------------|--|
| 18.9 | Gas system damage repair | <p>Within 60 days of discovery of the damage, or another mutually agreed time schedule, the permittee must replace or repair the damage to any equipment in the gas system and submit a written inspection report to the Department.</p> |
|-------------|---------------------------------|--|
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SITE CLOSURE

19.0 CLOSURE CONSTRUCTION AND MAINTENANCE

- | | |
|---|--|
| 19.1 In this section | <p>This section describes requirements for closure construction and maintenance at the facility, including:</p> <ul style="list-style-type: none">• worst-case plan development• notification• closure permit• closure plan approval• closure schedule• final cover• vegetation• final cover maintenance• deed record, and• submittal address |
| 19.2 Worst-case plan development | <p>The permittee must maintain an up-to-date conceptual "worst-case" closure plan and a conceptual post-closure plan. The plans must be placed in the facility file.</p> <p><u>Reference:</u> The plans must comply with 40 CFR, Part 258, Subpart F, and OAR 340-094-0110</p> |
| 19.3 Notification | <p>The permittee must notify the Department when the conceptual "worst-case" closure and conceptual post-closure care plans are updated and placed in the file.</p> |
| 19.4 Closure permit | <p>At least five (5) years prior to the anticipated final closure of the landfill, the permittee must apply for a closure permit in accordance with OAR 340-094-0100.</p> |
| 19.5 Closure plan approval | <p>At least 6 months prior to final closure of any portion of the landfill, the permittee must submit for approval detailed engineering plans, specifications, and a schedule for closure.</p> <p><u>Reference:</u> The current <i>Solid Waste Landfill Guidance</i> provides information on applicable elements of a Closure Plan. Following the organizational format provided in the Guidance will expedite Department review of the plan.</p> |
| 19.6 Closure schedule | <p>The permittee must close each area of the landfill on the schedule approved by the Department.</p> |
| 19.7 Final cover | <p>Unless otherwise approved by the Department, the final landfill cover must be:</p> <ul style="list-style-type: none">• at least three feet thick {OAR 340-094-0120(2)(a)};• minimize infiltration of precipitation as required by 40 CFR Part 258.60; and• graded to compensate for estimated differential settlement such that final (post-settlement) slopes will maintain positive drainage between two (2) percent and thirty (30) percent. |
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- 19.8 Vegetation** The permittee must establish and maintain a dense, healthy growth of native vegetation over the closed areas of the landfill consistent with the proposed final use.
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- 19.9 Final cover maintenance** The permittee must maintain the final surface contours of the landfill cover so that erosion and ponding of water is prevented to the maximum extent practicable. Erosion damage (cuts) must be repaired and seeded so that all waste remains covered.
- The permittee must reconstruct the cover system with approved materials and grade and seed all areas that have settled or where water ponds, and all areas where the cover soil has been damaged by cracking or erosion. Areas where vegetation has not been fully established must be fertilized, re-seeded, and maintained. Any damage repair or other reconstruction of a geomembrane barrier component in the final cover system must be conducted in accordance with a construction quality assurance plan approved by the Department.
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- 19.10 Deed record** Within 30 days after final closure of the disposal site, the permittee must record the presence, type, and location of the waste in the property deed record on file with the county. A copy must be sent to the Department.
-
- 19.11 Submittal address** All submittals to the Department under this section must be sent to:
Oregon Department of Environmental Quality
Manager, Solid Waste Program
750 Front Street NE, Suite 120
Salem OR 97301
(503) 378-8240
-



20.0 FINANCIAL ASSURANCE

20.1 In this section	<p>This section describes requirements for financial assurance at the facility, including:</p> <ul style="list-style-type: none">• financial assurance plan• submittal• use of financial assurance• continuous nature of financial assurance, and• submittal address
20.2 Financial assurance plan	<p>The permittee must prepare or update a financial assurance plan and provide financial assurance for the costs of site closure, post-closure care, and corrective action, if any, within ninety (90) days of permit issuance. The plan must be placed in the facility file.</p> <p><u>Reference:</u> The plan must be prepared in accordance with OAR 340-94-140. Acceptable mechanisms are described in OAR 340-94-145.</p>
20.3 Submittal	<p>The permittee must submit to the Department evidence of the financial assurance consisting of:</p> <ul style="list-style-type: none">• a copy of the first financial assurance mechanism• a written certification that the financial assurance meets all state requirements <p><u>Note:</u> The permittee must annually review and update financial assurance in accordance with OAR 340-094-0140(6)(e). Submittal date for the annual update of financial assurance plan and mechanism is April 8.</p>
20.4 Use of financial assurance	<p>The permittee must not use the financial assurance for any purpose other than to finance the approved closure, post-closure, and corrective action activities or to guarantee that those activities will be completed.</p>
20.5 Continuous nature of financial assurance	<p>Continuous financial assurance must be maintained for the facility until the permittee or other person owning or controlling the site is no longer required to demonstrate financial responsibility for closure, post-closure care, or corrective action (if required).</p>
20.6 Submittal address	<p>All submittals to the Department under this section must be sent to:</p> <p>Oregon Department of Environmental Quality Manager, Solid Waste Program 750 Front Street NE, Suite 120 Salem OR 97301 (503) 378-8240</p>



COMPLIANCE SCHEDULE

21.0 SUMMARY OF DUE DATES

21.1 **Summary** The following is a summary of event-driven reporting required by this permit. This section does not include routine reporting and submittals required by this permit.

Due Date	Activity	See section...
Within 180 days of permit issuance	Submit updated Operations Plan	7.2 Operations Plan
Within 90 days of approval of Operations Plan	Submit updated Operations and Maintenance Manual	7.4 Operations and Maintenance Manual
At least 180 days before removal of the leachate lagoon or poplar tree area	Submit revised Leachate Management Plan	9.10 Leachate Management Plan
6 months before any construction	Submit design plans	10.4 Design plans
Within 90 days of completion of any major construction	Submit construction certification report	10.8 Construction report
Within 270 days prior to any landfill expansion	Submit SCR workplan	12.3 Workplan
By 150 day after SCR workplan approval	Submit updated SCR	12.4 Site Characterization Report
Within 120 days of permit issuance	Submit updated Environmental Monitoring Plan	13.2 Environmental Monitoring Plan
Within 10 working days of any sample event	Notify Department of sampling event	14.2 Notification
By each March 15 th	Annual Monitoring Report	17.2 Annual Monitoring Report
By each March 15 th	Annual Leachate Treatment Report	17.5 Annual Leachate Treatment Report
Within 30 days of any well construction	Submit well construction report	18.6 Construction reporting
5 years prior to closure	Submit closure permit application	19.4 Closure permit
By each April 8 th	Submit Annual Update of financial assurance plan and mechanism	20.3 Annual update



ATTACHMENTS

22.0 ATTACHMENTS TO PERMIT

22.1 Attachment listing

The following attachments to this document are:

Number	Description
1	Parameter Groups
2	Permit-specific concentration limits

ATTACHMENT 1: PARAMETER GROUPS

Parameter group can be found in the currently approved EMP Table 1. Group 2b must be total metals analysis, no field filtering.

ATTACHMENT 2: PERMIT SPECIFIC CONCENTRATION AND ACTION LIMITS

PSCLs and ALs have been set for compliance wells MW-12A and MW-12B. These limits can be found in the currently approved EMP. PSCLs and ALs for all other compliance wells have not been set at this time. Once approved the EMP will be updated to contain all currently approved PSCLs and ALs.