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**Solid Waste Management Facility Permit**

**Permit:** SW-87

Ponderosa Sanitary Landfill

**Action:** PER011

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In accordance with Minn. Stat. Chs. 115, 115A, and 116, and Minn. Rules chs. 7000, 7001, and 7035, the Minnesota Pollution Control Agency (MPCA) hereby issues this permit and authorizes the Permittee(s) listed on the following page to construct and operate the Ponderosa Sanitary Landfill, SW-87 under the conditions set forth in this permit.

The facility consists of 416 acres located in: Township 108 N, Range 27 W, Section 28, Blue Earth County, in the MPCA Rochester Region. The facility includes the following waste activity area(s):

Leachate Recirculation	LR001
Leachate Spray Irrigation	LZ001
Municipal Solid Waste Disposal Area	SA001
Municipal Solid Waste Disposal Area	SA002

The determination to issue this permit is discretionary with the MPCA and was made subsequent to MPCA staff review of the permit application. The term commissioner, as used in this permit, refers to the MPCA Commissioner or MPCA personnel who have been delegated explicit authority by the commissioner. Other terms used in this permit are defined in Minnesota Statutes, the MPCA Solid Waste Management Rules, or specifically defined in this permit.

Permit Issuance Date: \_\_\_\_\_

Permit Expiration Date: \_\_\_\_\_

Minnesota Pollution Control Agency

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Paula J. Connell  
Supervisor, Solid Waste Permitting Unit  
Prevention and Solid Waste Management Section  
Resource Management & Assistance Division

**Solid Waste Management Facility Permit**  
Ponderosa Sanitary Landfill

**Permit:** SW-87  
**Action:** PER011

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The following permittee(s) are authorized to construct and operate the Ponderosa Sanitary Landfill, SW-87 under the conditions set forth in this permit.

**Permittee Activity Owner:**  
Blue Earth County

**Address:**  
PO Box 3566  
Mankato, MN 560023566

**Permittee Land Owner:**  
Blue Earth County

**Address:**  
PO Box 3566  
Mankato, MN 560023566

**Permittee Operator:**  
Ponderosa Management Co LLC

**Address:**  
2160 Ringhofer Dr  
North Mankato, MN 56003

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## 1. TOTAL FACILITY

### 1.1 General

#### 1.1.1 Definitions

- 1.1.2 "ACM" means Asbestos Containing Material.
- 1.1.3 "Airspace" means the volume for filling with waste, considering all solid waste, daily, intermediate, intermittent and final cover materials, and design restrictions.
- 1.1.4 "Class I Demolition Landfill" means an unlined demolition landfill that can only accept "Acceptable C & D Wastes," requires stringent screening of the waste that enters the facility, and may require a groundwater monitoring system based upon facility location, soil types and proximity to human and environmental receptors. A liner is not required at this facility.
- 1.1.5 "Class II Demolition Landfill" means a demolition landfill that is allowed to accept some waste types in addition to those defined as "Acceptable C & D Wastes." These waste types include incidental nonrecyclable packaging consisting of paper, cardboard and plastic; and demo-like industrial wastes comprised of wood, concrete, porcelain fixtures, shingles or window glass. Waste screening and groundwater monitoring are required at a Class II demolition landfill. Based upon soil type, depth to groundwater and the nature of the debris that is accepted at the facility, a Class II demolition landfill may require the installation of a liner and leachate management system.
- 1.1.6 "Class III Demolition Landfill" means a demolition landfill that can accept most industrial wastes in addition to all demolition and construction wastes. Groundwater monitoring, waste screening and a liner and leachate management system are required at this type of facility.
- 1.1.7 "Commissioner" means the commissioner of the Minnesota Pollution Control Agency, or any individual who is authorized to review and approve submittals on behalf of the commissioner.
- 1.1.8 "Design Capacity" means the maximum estimated potential airspace to be occupied by a land disposal facility, including all cover systems. "Design capacity" is used only for planning purposes and is distinct from permitted capacity. "Design capacity" is an estimate dependent on the existing landholdings of the permittee, existing regulations that affect development and design (including required buffer areas, storm water management requirements, and slopes), engineering designs, and site developmental plans. It includes all areas that have been completed, all active areas, and all proposed areas based on the largest design footprint shown on the plan sheets. It is the volume that, upon final closure of the facility, would be occupied by waste (along with all associated materials including cover) measured from the base of the fill to the top of the proposed final cover.
- 1.1.9 "Facility" has the meaning given in Minn. R. 7035.0300, subp. 37.

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**General**

- 1.1.10 "Permitted Capacity" means the total airspace volume in cubic yards allowed for disposal at the facility under the most recently issued permit. It includes airspace already filled by previous disposal activities, before the start of the permit; estimated fill volumes to be used during the ten-year term of the current permit, including cover systems; and may also include estimated fill volumes and cover systems that would be used during an additional "follow-on" period extending up to five years past the current permit's expiration date, provided that the permittee has submitted detailed engineering plans for the use and closure of that follow-on disposal space.
- 1.1.11 "Permittee" means the landowner, facility owner(s), and facility operator(s).
- 1.1.12 "Waste Activity" means the storage, processing, transfer, utilization, treatment, or disposal of solid waste and waste by-products.
- 1.1.13 "Waste Activity Area" means the land, structures, monitoring devices, and other appurtenances and improvements on the land associated with a waste activity.

**1.1.14 Waste Activities**

- 1.1.15 The facility waste activities authorized by this permit are limited to those activities described in the Waste Capacity Table of this permit.

**1.1.16 Permit Compliance**

- 1.1.17 The permittee shall keep the status of the permit current and up-to-date.
- 1.1.18 The permittee shall perform the actions or conduct the activity authorized by the permit in accordance with the plans and specifications approved by the agency, in accordance with all state and federal statutes, rules and regulations, and in compliance with the conditions of the permit.

**1.1.19 Location**

- 1.1.20 The facility authorized by this permit is located on a 411 acre parcel in Sections 28, 29, and 32, Township 108 North, Range 27 West, South Bend Township, Blue Earth County, Minnesota. The facility is located approximately six (6) miles southwest of the City of Mankato, Minnesota, off CSAH #34. The facility is surrounded by farmland, the Blue Earth River, and a municipal solid waste combustor ash landfill.

**1.1.21 Facility History**

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**General**

- 1.1.22 The MPCA originally issued a permit to Mr. Gerald Weimert on October 3, 1972, to construct and operate a 27 acre solid waste disposal system with a capacity of 2,214,000 cubic yards. The MPCA modified the permit on August 29, 1973, to re-orientate trenches for Municipal Solid Waste (MSW) disposal, and allow for construction and operation of a clay lined trench for disposal of an industrial waste containing bleaching clay-diatomaceous earth, and vegetable oil, from the Honeymead Products Company in Mankato, Minnesota [The Honeymead waste was deposited from 1976 to approximately 1994]. This changed the ultimate capacity to 2,952,000 cubic yards. The MPCA reissued the permit on November 20, 1984, and June 7, 1994. The 1994 application included design plans for a 12.3 acre lined disposal area, bringing the total disposal area equal to 39.3 acres at the facility. On December 29, 1994, the MPCA approved a minor modification to place demolition and construction debris in one area of the unlined disposal area in order to reduce the steepness of the slope prior to initiating closure construction activities. On April 19, 1995, the MPCA approved a minor modification to change the type of leachate spray irrigation equipment and to construct a temporary storage pad. The MPCA issued a minor modification on July 15, 1997, to approve a change-of-ownership from Mr. Stephen Weimert to Blue Earth County. On December 7, 1998, Blue Earth County submitted a re-permitting application, with subsequent submittals dated December 1, 2000, and November 10, 2003. The November 10, 2003, submittal incorporated Cell 0 into the landfill design, which changed the disposal area to 13.4 acres.
- 1.1.23 The facility was again re-permitted by MPCA on June 14, 2004, and July 25, 2008.

**1.1.24 Facility Description**

- 1.1.25 The MSW Facility currently consists of SA001 (27 acres/1,686,000 cubic yards), and SA002 (19.6 acres/1,266,000 cubic yards). The repermit application proposes expanding SA002 by 12.4 acres, and adding Phases 4, 5, 6, and 7, which has a capacity of 2,360,600 cubic yards.
- 1.1.26 SA001 is the designation for waste activities that occurred in the closed, unlined area of the landfill. SA001 occupies approximately 27 acres north of SA002. It operated from 1973 to 1994. It had a permitted airspace capacity of 1,686,000 cubic yards of which 1,604,000 cubic yards were utilized. A final cover with an 18-inch clay barrier layer and a passive gas venting system was constructed in 1995. An active gas system was installed in July 2003. This system collects landfill gas from both the waste, and the vadose zone. An on-going evaluation of VOCs in groundwater from the closed landfill continues.

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1.1.27 SA002 is the designation for waste activities that are currently occurring in the lined area of the landfill. SA002 occupies approximately 19.6 acres south and west of SA001. It is an open, lined fill area that has been operating since 1994. The re-permit application proposes adding Phases 4-7 to SA002, for a total acreage of 32 acres. Phases 4, 5, and 7 are vertical developments above Phases 1-3 and 6. The proposed expansion has a capacity of 2,360,000 cubic yards. Therefore, the lined area has an ultimate capacity of 3,626,600 cubic yards. The facility also proposes to conduct leachate recirculation activities in SA002.

**1.1.28 Variances**

1.1.29 No variances are being requested by the permittee at this time.

**1.1.30 Certificate of Need**

1.1.31 Minn. Stat. 115A.917 provides that no new capacity for disposal of mixed municipal solid waste may be permitted in counties outside the metropolitan area without a Certificate of Need (CON) from the MPCA. "Capacity" in this context refers to just the non-processed MSW that is picked up at the curb and hauled directly to the landfill. It does not include industrial, demolition, or asbestos waste, all of which also gets disposed of in the Blue Earth County Ponderosa Sanitary Landfill. It also does not include MSW processing residuals resulting as byproduct from the processing of MSW, which also is disposed of at the Ponderosa. This permit will authorize the continued disposal of waste and all cover materials (airspace) in SA002 up to the previously approved ultimate capacity of 2,952,000 cubic yards. After this capacity is used, the permittee will be required to obtain CON, per Section 5.1.1.

**1.1.32 Environmental Assessment Worksheet**

1.1.33 An Environmental Assessment Worksheet (EAW) is required at this time, in accordance with Minn. R. 4410.4300, subp. 17. An EAW must be prepared for projects that meet or exceed the thresholds listed in Minn. R. 4410.4300. For landfills that receive less than 100,000 cubic yards of MSW waste fill per year, and expand by 25 percent or more of previous MSW capacity, and EAW must be completed. Because the expansion exceeds more than 25% of previous permitted MSW capacity, the MPCA completed an EAW.

**1.1.34 Required Notices**

1.1.35 The permittee must notify the MPCA before transferring ownership or operation of a solid waste management facility during its operating life or during postclosure care period in accordance with Minn. R. 7035.2535, subp. 2.

**1.2 Permit Documents**

**1.2.1 Approved Plans**

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**Permit Documents**

1.2.2 The approved plans and engineering documents are incorporated into this permit. In addition, the approved version of all pending submittals required by this permit are incorporated into this permit. In all cases where the permit and the plans or submittal differ, the requirements of the permit shall govern over a condition in the plan or submittal. The approval by the commissioner of the plans and specifications shall not release the permittee from any present or subsequent requirements of statutes, rules, regulations, or ordinances.

**1.2.3 Permit Application**

1.2.4 The permit application approved by this permit is signed and dated July 27, 2012, and was received in our office on July 31, 2012.

**1.2.5 Engineering Documents**

1.2.6 The documents approved by this permit include:

1.2.7 Application for permit reissuance, prepared by Foth Infrastructure & Environment, LLC (Foth), dated July 2012, which includes but not limited to the following:

- ==>Updated Design Information
- ==>Operation and Maintenance Manual
- ==>Landfill Gas Management Plan
- ==>Updated Closure and Post-Closure Plan
- ==>Contingency Action Plan
- ==>Updated Financial Assurance Costs
- ==>Leachate Management Plan
- ==>Industrial Solid Waste Management Plan (Approved 2011)
- ==>Updated Surface Water Management Plan

**1.2.8 Hydrogeologic Evaluation Documents**

1.2.9 The hydrogeologic evaluation documents approved by this permit include, but not limited to the following:

1. The following documents, prepared by Liesch Associates, Inc., and approved by MPCA on April 16, 1992:
  - Hydrogeologic Evaluation of the Ponderosa Sanitary Landfill, Volumes I and II, dated October 1991.
  - Hydrogeologic Report Addendum for the Ponderosa Sanitary Landfill, dated March 1992.
  - Hydrogeologic Addendum letter report, dated March 25, 1992.
2. Phase III Water Monitoring System Report, and Phase IV Water Quality Monitoring Work Plan, prepared by Liesch Associates, Inc., received on June 15, 1992, and approved by MPCA on July 13, 1992.
3. Phase IV Water Quality Monitoring System Report, prepared by Liesch Associates, Inc., received on February 3, 1993, and formally approved by MPCA with the issuance of the June 7, 1994 permit.
4. Comprehensive Monitoring Plan, Revision 5.0, prepared by Liesch, dated July 1, 1996.

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**Permit Documents**

1.2.10 Environmental Sampling and Analysis Plan, prepared by Foth Infrastructure and Environement, LLC, dated July 2012.

**1.2.11 Revised Plans**

1.2.12 Any revised plans shall be submitted for approval by the commissioner. The permittee shall obtain approval from the commissioner on all revised engineering plans prior to construction of the affected portion of the facility.

**1.3 Design and Construction Criteria**

**1.3.1 Location Standards**

1.3.2 The permittee may not locate, establish, or construct a solid waste management facility in areas designated in Minn. R. 7035.2555.

**1.3.3 Groundwater Quality, Surface Water Quality, Air Quality, and Soil Protection**

1.3.4 The permittee must construct the facility to prevent pollution of groundwater and surface water, minimize the contamination of soils from solid waste, and maintain the facility in conformance with MPCA air pollution control rules in accordance with Minn. R. 7035.2565. The permittee must design any proposed future expansions of the facility in accordance with this rule.

**1.3.5 Storage Standards**

1.3.6 The permittee must construct the waste activity area where solid waste is stored in accordance with Minn. R. 7035.2855 except as provided in, subp. 1 and Minn. R. 7035.2525, subp. 2.

**1.3.7 Stormwater Management System**

1.3.8 The permittee must construct the stormwater management system for the facility with Best Management Practices to manage stormwater discharge in accordance with the National Pollutant Discharge Elimination System/State Disposal System (NPDES/SDS) Permit for the discharge of stormwater associated with an industrial activity and/or a construction activity. The issuance of this permit does not release the permittee from the obligation to obtain an NPDES/SDS permit.

**1.3.9 Construction Plan**

1.3.10 The permittee must submit a construction plan to the commissioner for approval prior to construction if the construction plan proposes any major revisions to the approved design.

**1.3.11 Construction Notification**

1.3.12 The permittee must notify appropriate MPCA staff at least ten (10) working days in advance of the construction of the facility or any component thereof unless the commissioner orders otherwise.

**1.3.13 Construction Certification**

1.3.14 The permittee must submit a construction certification for approval by the commissioner in accordance with Minn. R. 7035.2610. A facility waste activity or any new design feature must not be placed into operation until the construction certification has been approved by the commissioner.

**1.3.15 Alterations and Additions**



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**Design and Construction Criteria**

- 1.3.16 The permittee shall not make any major alterations or additions to the facility that would materially alter the manner in which waste is managed without first obtaining the written consent of the commissioner.

**1.4 Operating and Maintenance Criteria**

**1.4.1 Trained / Certified Operator**

- 1.4.2 The permittee must ensure that the required number of operators, trained or certified under Minn. R. 7035.2545 and Minn. R. 7048.0100 to 7048.1300, are present and on duty at all times that the facility is open for the purpose of receiving waste.

**1.4.3 Security**

- 1.4.4 The permittee must prevent unauthorized entry onto the facility in accordance with Minn. R. 7035.2535, subp. 3. In addition, the permittee shall post a sign at the entrance of the facility and each waste activity area showing the facility name, MPCA permit number, hours of operation, the acceptable waste, and any other relevant information.

**1.4.5 Personnel Training**

- 1.4.6 The permittee must establish and maintain a personnel training program consisting of classroom instruction and on-the-job training. The program must address the requirements identified in Minn. R. 7035.2545, subp. 3, and must include the specific training necessary to perform the tasks associated with each solid waste management area within the facility. The permittee must maintain a record of all personnel training and submit the dates of training in the annual report.

**1.4.7 Operations Manual**

- 1.4.8 The permittee must prepare and maintain an operations and maintenance manual for the facility. The manual must include operations and maintenance criteria that are specific to each solid waste management area within the facility.

**1.4.9 Roads**

- 1.4.10 The permittee must construct and maintain all-weather approach and access roads to all waste activity areas within the facility.

**1.4.11 Storage of Solid Waste**

- 1.4.12 The permittee must provide satisfactory storage for all solid waste accumulated at the facility in accordance with Minn. R. 7035.0700 and Minn. R. 7035.2855.

**1.4.13 Nuisance Conditions**

- 1.4.14 The permittee must keep the facility grounds and immediately adjacent property free of litter stemming from the facility operations. The facility grounds and adjacent property shall be inspected and cleared of all litter at least once per week.
- 1.4.15 The permittee must manage the facility to be in compliance with Minn. R. 7011.0150 to prevent particulate matter from becoming airborne.

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**Operating and Maintenance Criteria**

- 1.4.16 The permittee must manage all free liquids that have come in contact with solid waste so that the liquids are not discharged as storm water.
- 1.4.17 The permittee must provide effective measures to control flies, rodents and other insects or vermin as necessary.
- 1.4.18 Collection and Transportation of Solid Waste**
  - 1.4.19 The permittee must provide for the proper collection and transportation of solid waste in accordance with Minn. R. 7035.0800.
- 1.4.20 Unacceptable Wastes**
  - 1.4.21 The permittee must not accept the wastes identified in Minn. R. 7035.2535, subp. 1 for treatment, storage, processing, or disposal.
- 1.4.22 Industrial Solid Waste**
  - 1.4.23 The permittee must manage industrial solid waste for each waste activity as specified in the approved plan in accordance with Minn. R. 7035.2535, subp. 5. The permittee must include the information required by Minn. R. 7035.2575, subp. 2, items B and C in the annual report for each industrial waste accepted at the facility.
- 1.4.24 Household Hazardous Waste**
  - 1.4.25 The permittee must manage household hazardous waste management for each waste activity as specified in the approved plan in accordance with Minn. R. 7035.2535, subp. 6.
- 1.4.26 Stormwater Management System**
  - 1.4.27 The permittee must operate and maintain the stormwater management system for the facility with Best Management Practices to manage stormwater discharges in accordance with the National Pollutant Discharge Elimination System/State Disposal System (NPDES/SDS) Permit for the discharge of stormwater associated with an industrial activity and/or a construction activity.
- 1.4.28 Groundwater Quality, Surface Water Quality, Air Quality, and Soil Protection**
  - 1.4.29 The permittee must operate and maintain the facility to prevent pollution of groundwater and surface water, minimize the contamination of soils from solid waste, and maintain the facility in conformance with MPCA air pollution control rules in accordance with Minn. R. 7035.2565.
- 1.4.30 Emergency Equipment**
  - 1.4.31 The permittee must provide and maintain adequate emergency equipment at the facility to control accidental fires, and make arrangements with the local fire protection agency to immediately acquire their services when needed. The permittee must also provide adequate communications equipment for emergency purposes.
- 1.4.32 Operating Record**
  - 1.4.33 The permittee must keep a written operating record at the facility in accordance with Minn. R. 7035.2575.
- 1.4.34 Self Inspections**

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**Operating and Maintenance Criteria**

1.4.35 The permittee must inspect the facility in accordance with the schedule and items approved by the commissioner as defined by Minn. R. 7035.2535, subp. 4. The permittee must record inspections in an inspection log or summary and must keep these records for at least five years.

**1.4.36 Emergency Procedures Manual**

1.4.37 The permittee must maintain a copy of the approved emergency procedures manual at the facility for facility personnel to use in time of emergency.

**1.4.38 Contingency Action Plan**

1.4.39 The permittee must maintain a copy of the approved contingency action plan at the facility.

**1.4.40 Closure Plan**

1.4.41 The permittee must maintain a copy of the approved facility closure plan, and all revisions to the plan, at the facility until closure is completed and certified in accordance with Minn. R. 7035.2635, subp. 3.

**1.4.42 Postclosure Plan**

1.4.43 The permittee must maintain a copy of the approved postclosure care plan, and all subsequent amendments, until the postclosure care period begins. During the postclosure care period, the plan must be kept by the contact person identified in Minn. R. 7035.2645, subp. 2, item C.

**1.5 Reporting Criteria**

**1.5.1 Annual Facility Report**

1.5.2 The permittee must submit an annual facility report for the preceding calendar year in accordance with Minn. R. 7035.2585. When required of a waste activity, the report must include summary evaluation reports and specific annual reporting requirements. The permittee must submit the report to the commissioner according to the schedule in the Required Actions and Submittals Table(s) of this permit.

**1.5.3 Routine Monitoring Reporting**

1.5.4 The permittee shall submit routine monitoring results accompanied by information sufficient to establish the reliability, precision, and accuracy of the reported values, including the requirements of Minn. R. 7035.2815, subp. 14, item P. The permittee shall submit the monitoring results to the commissioner according to the schedule in the Required Actions and Submittals Table(s) of this permit.

**1.5.5 Annual Monitoring Reporting**

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**Reporting Criteria**

- 1.5.6 The permittee shall submit an annual gas monitoring evaluation report summarizing the results of the quarterly methane monitoring in accordance with Minn. R. 7035.2815, subp. 11 and 40 CFR 258.23. The permittee shall submit the report to the commissioner, as part of the annual facility report, according to the schedule in the Required Actions and Submittals Table(s) of this permit. The monitoring results must be accompanied by information sufficient to establish the reliability, precision, and accuracy of the reported values.
- 1.5.7 The permittee shall submit an annual water and leachate monitoring evaluation report in accordance with Minn. R. 7035.2585 and 7035.2815, subp. 14, item Q. The permittee shall submit the report to the commissioner, as part of the annual facility report, according to the schedule in the Required Actions and Submittals Table(s) of this permit.

**1.5.8 Electronic Data Reporting**

- 1.5.9 The permittee must submit an electronic copy of all water quality monitoring data including groundwater, leachate and field data for each monitoring event. Electronic data must be submitted in the format outlined in the MPCA Solid Waste Program Electronic Laboratory Data Submittal Manual which can be found on the MPCA Solid Waste Permitting webpage at <http://www.pca.state.mn.us/waste/swpermits.html#data>. The schedule for submitting electronic copies of monitoring data shall follow the schedule outlined for monitoring reports as identified in the Required Actions and Submittals Table(s) of this permit.
- 1.5.10 The permittee must submit a paper copy of all water monitoring reports as outlined in the Required Actions and Submittals Table(s) of this permit unless otherwise specifically directed by the commissioner.

**1.5.11 Monitoring Station Location Information**

- 1.5.12 The permittee must collect location and elevation data for all monitoring points. Location data must be submitted in latitude/longitude coordinates and the datum used must be identified. Elevation data for monitoring wells must include the elevation of the riser pipe and ground surface. The depth of wells from the riser pipe must also be identified. If existing data is being reported the surveying method and datum used to collect this information must be identified.

**1.6 Contingency Action Criteria**

**1.6.1 Contingency Action Plan**

- 1.6.2 The permittee must address all facility waste activities as specified in the approved plans and specifications, and in accordance with Minn. R. 7035.2615.
- 1.6.3 If a fire occurs in the waste deposit area, the permittee shall immediately implement its contingency action plan to extinguish the fire.

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**Contingency Action Criteria**

1.6.4 Within 24 hours of discovery of the fire, the permittee must provide notice to the MPCA that a fire has occurred and that the contingency action plan has been implemented. If the permittee has not extinguished the fire within two weeks of notice, the permittee shall again notify the MPCA and shall provide the name of the professional engineer that their permittee has hire to develop a revised plan for further fire fighting efforts. The permittee must submit the revised plan to the MPCA for review and approval within 15 days of the notice to the MPCA that a revised plan is being prepared. To be approved, their revised plan must identify the action that will be taken to extinguish that fire, including sources for materials and equipment and a timeline for implementation, and must be signed by a registered professional engineer. The permittee must implement the revised plan upon approval by the MPCA.

**1.6.5 Contingency Action Procedures**

1.6.6 The permittee must implement the actions necessary to comply with the contingency action requirements in accordance with Minn. R. 7035.2615.

**1.6.7 Emergency Preparedness and Prevention**

1.6.8 The permittee must maintain and operate a facility to minimize the possibility of a fire, explosion, or any release to air, land, or water of pollutants that threaten human health or the environment in accordance with Minn. R. 7035.2595.

**1.6.9 Emergency Procedures**

1.6.10 The permittee must take all reasonable containment measures during an emergency and submit a written report to the commissioner in accordance with Minn. R. 7035.2605.

**1.7 Closure Criteria**

**1.7.1 Facility Closure**

1.7.2 The permittee must close each waste activity, or the entire facility as appropriate, as specified in the approved plans and specifications, and in accordance with Minn. R. 7035.2625.

**1.7.3 Closure Procedures**

1.7.4 The permittee must perform closure for each waste activity as specified in the approved plans and specifications, and in accordance with Minn. R. 7035.2635.

1.7.5 The permittee must complete closure activities for the waste activity area in accordance with the closure plan within 180 days following the beginning of closure as specified in the closure procedures above.

**1.8 Postclosure Criteria**

**1.8.1 Postclosure Plan**

1.8.2 The permittee must comply with postclosure requirements as specified in the approved plans and specifications, and in accordance with Minn. R. 7035.2645.

**1.8.3 Postclosure Care**

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**Postclosure Criteria**

1.8.4 The permittee must perform postclosure care for each waste activity as specified in the approved plans and specifications, and in accordance with Minn. R. 7035.2655, subp. 1.

**1.8.5 Postclosure Use of Property**

1.8.6 The permittee must comply with postclosure use of property requirements in accordance with Minn. R. 7035.2655, subp. 2.

**1.9 Financial Criteria**

**1.9.1 Cost Estimates**

1.9.2 The permittee must keep the current cost estimates for each waste activity at the facility during the operating life in accordance with Minn. R. 7035.2685, subp. 2.

**1.10 General Conditions**

**1.10.1 Release**

1.10.2 The MPCA's issuance of a permit does not release the permittee from any liability, penalty, or duty imposed by Minnesota or federal statutes, or regulations, or local ordinances including, but not limited to, those promulgated pursuant to Minn. Stat. chs. 115, 115A, 116, 400 and 473. This permit shall be permissive only and shall not be construed as estopping or limiting any claims against the permittee, its agents, contractors, or assigns, nor as estopping or limiting any legal claims of the state against the permittee, its agents, contractors, or assigns for damages to state property, or for any violation of the terms of this permit.

**1.10.3 Future Changes**

1.10.4 The MPCA's issuance of a permit does not prevent the future adoption by the MPCA of pollution control rules, standards, or enforcement orders more stringent than those now in existence and does not prevent the enforcement of these rules, standards, or enforcement orders against the permittee.

**1.10.5 Rights and Privilege**

1.10.6 The permit does not convey a property right or an exclusive privilege.

**1.10.7 Enforcement**

1.10.8 The MPCA's issuance of a permit does not obligate the MPCA to enforce local laws, rules or plans beyond that authorized by Minnesota Statutes.

**1.10.9 Performance**

1.10.10 The permittee shall perform the actions or conduct the activity authorized by the permit in accordance with the submittals and specifications approved by the MPCA and in compliance with the conditions of the permit.

**1.10.11 Operation and Maintenance**

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**TOTAL FACILITY**

**General Conditions**

1.10.12 The permittee shall at all times properly operate and maintain the facilities and systems of treatment and control and the appurtenances related to them which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. The permittee shall install and maintain appropriate backup or auxiliary facilities if they are necessary to achieve compliance with the conditions of the permit and, for all permits other than hazardous waste facility permits, if these backup or auxiliary facilities are technically and economically feasible.

**1.10.13 Honesty**

1.10.14 The permittee may not knowingly make a false or misleading statement, representation, or certification in a record, report, plan, or other document required to be submitted to the MPCA or the commissioner by the permit. The permittee shall immediately upon discovery report to the commissioner an error or omission in these records, reports, submittals or other documents.

**1.10.15 Timely Information Submittal**

1.10.16 The permittee shall, when requested by the commissioner, submit within a reasonable time the information and reports that are relevant to the control of pollution regarding the construction, modification, or operation of the facility covered by the permit or regarding the conduct of the activity covered by the permit.

**1.10.17 Access**

1.10.18 When authorized by Minn. Stat. 115.04, 115B.17, subd. 4 and 116.091, and upon presentation of proper credentials, the MPCA, or an authorized employee or agent of the MPCA, shall be allowed by the permittee to enter at reasonable times upon the property of the permittee to examine and copy books, papers, records, or memoranda pertaining to the construction, modification, or operation of the facility covered by the permit or pertaining to the activity covered by the permit; and to conduct surveys and investigations, including sampling or monitoring, pertaining to the construction, modification, or operation of the facility covered by the permit or pertaining to the activity covered by the permit.

**1.10.19 Discovery of Noncompliance**

1.10.20 If the permittee discovers, through any means, including notification by the MPCA, that noncompliance with a condition of the permit has occurred, the permittee shall take all reasonable steps to minimize the adverse impacts on human health, public drinking water supplies, or the environment resulting from the noncompliance.

**1.10.21 Notification of Noncompliance Involving an Imminent Threat**

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**TOTAL FACILITY**

**General Conditions**

1.10.22 If the permittee discovers that noncompliance with a condition of the permit has occurred which could endanger human health, public drinking water supplies, or the environment, the permittee shall, within 24 hours of the discovery of the noncompliance, orally notify the commissioner. Within five (5) days of the discovery of the noncompliance, the permittee shall submit to the commissioner a written description of the noncompliance; the cause of the noncompliance; the exact dates of the period of the noncompliance; if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

**1.10.23 Reporting of Noncompliance**

1.10.24 The permittee shall report noncompliance with the permit not reported in the Notification of Noncompliance subheading above by submitting the information listed in Notification of Noncompliance within 30 days of the discovery of the noncompliance.

**1.10.25 Alterations**

1.10.26 The permittee shall give advance notice to the commissioner as soon as possible of planned physical alterations or additions to the permitted facility or activity that may result in noncompliance with a Minnesota or federal pollution control statute or rule or condition of the permit.

**1.10.27 Transferability**

1.10.28 The permit is not transferable to any person without the express written approval of the MPCA after compliance with the requirements of Minn. R. 7001.0190. A person to whom the permit has been transferred shall comply with the conditions of the permit.

**1.10.29 Responsibility for Damage**

1.10.30 The permit authorizes the permittee to perform the activities described in the permit under the conditions of the permit. In issuing the permit, the state and MPCA assume no responsibility for damage to persons, property, or the environment caused by the activities of the permittee in the conduct of its actions, including those activities authorized, directed, or undertaken under the permit. To the extent the state and MPCA may be liable for the activities of its employees, that liability is explicitly limited to that provided in the Tort Claims Act, Minn. Stat. 3.736.

**1.10.31 Modifying or Revoking Permit**

1.10.32 The commissioner may commence proceedings to modify or revoke this permit during its terms if cause exists under Minn. R. 7001.0170 to 7001.0180.

**1.10.33 Severability**

1.10.34 The provisions of this permit are severable. If any provision of this permit is held invalid, the remainder of this permit shall not be affected.

**1.10.35 Extensions**



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**TOTAL FACILITY**

**General Conditions**

- 1.10.36 The permittee may request an extension of the dates set forth in this permit including the submittal and monitoring dates. The request must include justification for requesting the extension of the date. Based on the justification, the commissioner may grant an extension.

**1.10.37 Term of Permit**

- 1.10.38 This permit is valid until the expiration date unless revoked or modified by the MPCA pursuant to Minn. R. 7001.0170 to 7001.0180. To allow for adequate MPCA review time and to avoid possible termination of the permit at the time the permit expires, an application for reissuance of the permit must be submitted no later than 180 calendar days before the expiration date of the permit.

**1.10.39 Retention of Records**

- 1.10.40 The permittee must maintain records of all groundwater monitoring data and groundwater surface elevations for the active life of the facility and each waste activity and, for disposal activities, for the postclosure care period. The permittee must also maintain an operating record in accordance with Minn. R. 7035.2575 until closure of each waste activity at the facility.

**1.10.41 As-built Plans**

- 1.10.42 The permittee may not start treatment, storage, or disposal of solid waste in a new solid waste management facility or in a modified portion of an existing solid waste management facility until the commissioner has received a letter and as-built plans signed by the owner or operator and by an engineer registered in Minnesota certifying that the facility or modified portion of the facility has been constructed in compliance with the conditions of the permit.

**1.10.43 Construction Certification**

- 1.10.44 The permittee may not start treatment, storage, or disposal of solid waste in a new solid waste management facility or in a modified portion of an existing solid waste management facility until the commissioner has inspected the new facility or modified portion of the facility and has provided the owner or operator with a letter stating that the certification submitted is complete and approved.

**1.10.45 Financial Assurance**

- 1.10.46 The permittee may not start treatment, storage, or disposal of solid waste in a new solid waste management facility or in a modified portion of an existing solid waste management facility until the commissioner has approved the financial assurance amount and instrument to be used for the facility in accordance with Minn. R. 7035.2665 to 7035.2805.

**1.11 Specific Conditions**

**1.11.1 Major Appliances**

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**TOTAL FACILITY**

**Specific Conditions**

1.11.2 The permittee must provide a separate storage area for the transfer of major appliances, as defined in Minn. Stat. 115A.03, such that damage to the units is minimized during handling. The permittee must ensure that the proper removal of hazardous components and refrigerant gases is performed by a certified appliance processor. The permittee must transfer all appliances off-site at least annually, with the number of appliances recycled and the destination included in the annual report.

**1.11.3 Electronics**

1.11.4 The permittee must provide a separate storage area for the storage and transfer of electronics. As used in this permit, "electronics" includes but is not limited to televisions, computer monitors, computers, microwaves, and other devices that have wiring, circuitry, circuit boards, batteries, and other similar components. The permittee shall store and manage electronics indoors and in a manner that prevents damage and the release of hazardous components. The permittee must transport electronics stored at the Facility off-site for recycling or disposal at an appropriate facility at least annually and the permittee shall note the volume and the destination in the annual report.

**1.11.5 Tires**

1.11.6 The permittee must identify a designated waste tire storage area. The permittee may store a maximum of 2,000 passenger tire equivalents (PTE) in this area.

1.11.7 The permittee must maintain all tire piles in a manner that keeps the piles free of vegetation, mosquitoes and rodents.

1.11.8 The permittee must divert surface water drainage around and away from the waste tire storage area.

1.11.9 The permittee must not conduct any operations involving the use of open flames, blow torches, or highly flammable substances within 50 feet of a waste tire pile.

1.11.10 The permittee must arrange for the transportation and disposal of the waste tires by a licensed tire hauler. The permittee shall include the number of tires transferred, the licensed hauler's MPCA transporter identification number, and the tire disposal destination in the facility's annual report.

**1.11.11 Concrete**

1.11.12 The permittee may provide a separate storage area for the storage of concrete. If the permittee elects to store concrete in a separate area, the permittee must crush the concrete on a regular basis, not to exceed three years.

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## **2. LEACHATE RECIRCULATION LR 001**

### **2.1 Design and Construction Criteria**

#### **2.1.1 Leachate Recirculation Area**

2.1.2 The permittee may only conduct leachate recirculation in approved disposal cells that meet or exceed the liner requirements in Minn. R. 7035.2815 Subp. 7.

The permittee will design and construct a leachate recirculation system that meets the conditions of this permit or plans submitted and approved by MPCA.

2.1.3 Leachate recirculation piping must be positioned vertically above the footprint of the cell(s) approved for recirculation.

#### **2.1.4 Leachate Distribution Lines**

2.1.5 The leachate distribution lines must be installed in accordance with the approved plans.

2.1.6 Distribution piping must be set back at least 50 feet from the exterior side slopes of the approved recirculation cells. Perforations within the distribution piping may not begin within 50 feet of the side slope.

2.1.7 Leachate recirculation through lateral pipes and surface application of leachate shall not be conducted within 20 feet vertically of the landfill base liner.

#### **2.1.8 Leachate Detection, Collection and Treatment System**

2.1.9 The leachate collection system must include a pumping system, flow measurement devices, leak detection, and head level measurement devices. The system must be designed to collect leachate quantity and quality data separately from each landfill cell approved for leachate recirculation.

Leachate sampling and analysis shall be in accordance with the Limits Tables of this permit.

#### **2.1.10 Landfill Gas Control**

2.1.11 The permittee has installed an active landfill gas control system with a flare to control landfill gas. Long term plans are to convert the landfill gas to electricity.

#### **2.1.12 Temporary Cover System**

2.1.13 The commissioner shall allow for the use of a temporary cover system during leachate recirculation. The temporary cover system must comply with the requirements of Minn. R. 7035.2815, subp. 6, items D(2), D(6), D(7), and D(9).

2.1.14 A temporary cover consisting of natural soil materials must be at least two feet thick and it must contain an organic top layer of six inches capable of oxidizing methane.

The MPCA will allow one foot of field cuttings from the leachate application sites as the six inch organic top layer at the facility.

#### **2.1.15 Final Cover System**

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**LEACHATE RECIRCULATION LR 001**

**Design and Construction Criteria**

- 2.1.16 The permittee shall monitor settlement in each landfill cell that has a temporary cover system. Final cover must be constructed over a cell, or portion thereof, when settlement in a one year period is less than one percent of the waste thickness, or sooner if additional waste will no longer be placed in the cell, or portion thereof. Please also see the Closure Criteria heading of this section.

**2.2 Operating and Maintenance Criteria**

**2.2.1 Dedicated Operator**

- 2.2.2 At least one full-time, certified operator must be dedicated to the operation of the leachate recirculation system. The dedicated operator must be available during and when leachate is being recirculated.

**2.2.3 Leachate Recirculation System**

- 2.2.4 The permittee will operate and maintain a leachate recirculation system that meets the conditions of this permit or plans submitted and approved by MPCA.

Leachate recirculation may be conducted by surface application at the working face or subsurface application through horizontal perforated pipes in accordance with the approved plans.

- 2.2.5 The permittee shall not recirculate leachate or apply leachate to the working face within 20 feet of the base liner.

- 2.2.6 The permittee shall cease leachate recirculation in landfill Cells that have a waste moisture content in excess of 35% by weight. The permittee shall ensure that the quantity and rate of leachate recirculation does not result in an exceedance of one foot of head over the liner. The permittee shall consider the incident precipitation on the cell when considering the quantity of leachate to add to the landfill cell, to maintain compliance with the above conditions.

**2.2.7 Leachate Management**

- 2.2.8 Leachate must be recirculated in a manner that allows for dosing and resting cycles.

**2.2.9 Surface Application**

- 2.2.10 The permittee shall not apply leachate to the landfill working face in excess of 10,000 gallons per day. The permittee shall not apply leachate to the working face while it's raining and no ponding or runoff shall be permitted at or near the working face. The permittee shall visually confirm that there is no ponding or runoff at the working face during and after each application event.
- 2.2.11 Surface application of leachate shall be permitted over waste before the application of daily or intermediate cover, but shall not be conducted during periods of waste acceptance, and shall not be conducted over intermediate cover soils or on frozen waste.

**2.2.12 Equipment Maintenance and Calibration**

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**LEACHATE RECIRCULATION LR 001**

**Operating and Maintenance Criteria**

- 2.2.13 The permittee shall clean and flush the leachate collection piping once every year as a minimum to prevent blockage due to formation of leachate rock in the collection system.
- 2.2.14 The permittee shall ensure that leachate flow meters and leachate head monitoring devices are calibrated annually.
- 2.2.15 The permittee must maintain the integrity and functionality of the leachate detection, collection, and on-site leachate holding areas capable of preventing a release to the environment in accordance with Minn. R. 7035.2815 subp. 9 (K).

**2.2.16 Training Program**

- 2.2.17 The permittee must develop and implement a site-specific training program for the operation of the leachate recirculation system.

**2.2.18 Odor Management**

- 2.2.19 The permittee shall prepare and implement an odor control plan as part of the contingency action plan for the facility.

**2.2.20 Leachate Recirculation Inspections**

- 2.2.21 The dedicated operator must inspect the recirculation areas in accordance with the approved inspection schedule. The results of these inspections must be recorded in the facility's log book kept on site. Any problems detected during the inspection must be addressed immediately and repaired within two weeks of discovery. If weather conditions or equipment availability prevent repair within two weeks, then the permittee shall seek MPCA approval of an alternative schedule.

**2.2.22 Cessation of Leachate Recirculation**

- 2.2.23 The permittee must cease the recirculation of leachate if the liner shows signs of leakage, if surface seeps develop, if unstable slope conditions are evident, if leachate head levels exceed one foot, or if unresolved odor issues persist.

The MPCA must be notified within 24 hours after ceasing recirculation activities. The permittee must follow the steps identified in the approved contingency action plan to correct the problem. The permittee shall comply with Minn. R. 7035.2615, Subp. 4 to amend the contingency action plan whenever an event occurs that isn't specified in the contingency action plan.

Leachate recirculation activities may not resume without authorization from the MPCA, which might include approval to resume leachate recirculation in unaffected landfill cells.

**2.2.24 End of Leachate Recirculation**

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**LEACHATE RECIRCULATION LR 001**

**Operating and Maintenance Criteria**

- 2.2.25 The permittee shall cease leachate recirculation when the waste mass within the recirculation area, cell or phase has been stabilized based on leachate stability and landfill gas generation stability.

Leachate stability is when the leachate COD is less than 1,000 mg/L and BOD is less than 100 mg/L with a BOD:COD ratio less than 0.1.

Landfill gas generation stability is when the gas production of a cell or phase drops to 5 percent of the peak production rate. If inadequate data exists to show the peak production, then modeling may be utilized to determine the peak gas production rate.

**2.3 Monitoring Criteria**

**2.3.1 Performance Standards**

- 2.3.2 The permittee must design, construct, operate and maintain the leachate recirculation system to achieve compliance with the leachate and landfill gas analytical detection limits set forth in the Limits Table(s) of this permit and the approved Leachate Management Plan.

**2.3.3 Landfill Gas Monitoring**

- 2.3.4 Passive landfill gas venting: The permittee shall monitor and record on a quarterly basis the concentration of methane and oxygen and the temperature of the landfill gas at each leachate recirculation lateral cleanout, gas lateral or well, and leachate collection lines.
- 2.3.5 Active landfill gas control: the permittee shall monitor and record the total gas production, individual well production, the methane and oxygen concentration at the blower and the gas temperature at the blower.

**2.3.6 Ambient Air Monitoring**

- 2.3.7 The permittee shall conduct ambient air monitoring for methane on at least a quarterly basis following a serpentine path using NSPS methods. A map of the walking route used for ambient air monitoring must be included with the submittal of the monitoring results.

The permittee may request a reduction in the frequency of ambient air monitoring if the facility is operating an active landfill gas extraction system, and if the NSPS procedures are used and no readings above 500 ppm methane are detected for four consecutive quarters.

**2.3.8 Lysimeter Monitoring**

- 2.3.9 The permittee shall monitor the lysimeters beneath the approved recirculation cell for the presence of liquid at least monthly. If liquid is detected, the lysimeter shall be pumped dry and the volume measured and reported in the annual water quality report. At least once per quarter, any liquid detected in the lysimeter shall be analyzed in accordance with the Limits Table(s) of this permit or the approved Environmental Analysis and Sampling Plan.

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**LEACHATE RECIRCULATION LR 001**

**Monitoring Criteria**

**2.3.10 Leachate Monitoring**

2.3.11 The leachate parameters for the evaluation of waste stabilization in the recirculation cell or phase are those listed in the Limits Table of this permit. Twice each year, the permittee shall monitor the leachate at the base of each cell or phase where leachate is recirculated in accordance with the Limits Tables of this permit.

**2.3.12 Water Balance Parameter Monitoring**

2.3.13 The following are minimum monitoring criteria for completing a water balance separately for each approved recirculation cell:

Parameters:	Frequency	Units
Mass of Landfilled Waste	Daily	Tons
Leachate Generation	Monthly	Gallons
Leachate Recirculated	Daily	Gallons
Precipitation	Daily	Inches
Incoming Waste Moisture Content	Annually	%(M/M)

Leachate generation shall be the measured quantity pumped from the landfill liner of each cell.

The permittee shall complete the water balance annually at a minimum and monthly if the waste moisture content exceeds 30% by weight.

Note: Report the amount of leachate recirculated annually with daily breakdowns for each landfill cell and the average leachate loading rate per foot of trench length for each recirculation lateral.

**2.3.14 Leachate Head Level Monitoring**

2.3.15 The permittee shall monitor the leachate head level daily from Monday through Friday in leachate recirculation areas by checking head wells, pressure transducers, or head level warning alarms. If the facility, or a disposal phase, does not have head level warning alarms, then the head level must be recorded in a log book daily. For phases that have head level warning alarms, the head level must be recorded monthly at a minimum and also whenever the warning alarm is activated.

The recorded pressure transducer readings, and the weekly average of the daily head level readings if applicable, must be reported to the Agency in the Annual Report. If at any time a head level reading or warning alarm indicates that the leachate head level exceeds one foot, Minn. R. 7035.2815 subp. 9, Item D, the exceedance must be immediately reported to the MPCA.

**2.3.16 Settlement Monitoring**

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**LEACHATE RECIRCULATION LR 001**

**Monitoring Criteria**

- 2.3.17 The permittee shall monitor landfill settlement for each cell in accordance with the approved plans and at least annually. The permittee shall calculate the percentage of settlement based on the thickness of waste in each cell and report the degree of settlement and an analysis of settlement stability for each cell in the annual report.

**2.4 Reporting Criteria**

**2.4.1 Leachate Recirculation Reporting**

- 2.4.2 The permittee shall submit an annual report detailing the leachate recirculation activities at the facility in accordance with the approved Leachate Management Plan.
- 2.4.3 The permittee shall submit in the annual leachate recirculation report planned construction of leachate recirculation related infrastructure for the next year.
- 2.4.4 The permittee shall submit a construction certification report for areas that have received temporary final cover. As a minimum, the construction certification report shall include a survey to document the correct thickness of soil layers and permeability tests and HELP model results to confirm the as-built temporary cover rejects 90% of the precipitation falling on the temporary cover.

**2.4.5 Landfill Gas Contingency Reporting**

- 2.4.6 If the permittee installs an active gas control system, then the permittee shall report landfill gas oxygen levels greater than 5%, which is a high oxygen level, in the annual report with a discussion of the possible causes and corrective actions that were taken. The operator shall investigate the cause of the high oxygen levels immediately upon discovery. The contingency action plan shall be updated to address investigating and repairing systems or pathways for air intrusion into the landfill due to the active landfill gas control system upon discovery of a high oxygen level at an individual gas vent, gas well, recirculation lateral or active gas blower.
- 2.4.7 The permittee shall report landfill gas temperatures greater the 140 degrees Fahrenheit, which is a high temperature, in the annual report with a discussion of the possible causes and corrective actions that were taken. The operator shall investigate the cause of the high temperature landfill gas immediately upon discovery. The contingency action plan shall be updated upon occurrence of a high temperature reading at an individual gas vent, gas well, recirculation lateral or the active gas blower monitoring location to address the investigation of possible landfill fires and landfill component damage that may have been caused by high landfill temperatures.

The permittee shall monitor the landfill carbon monoxide levels whenever a high temperature is observed. The permittee shall report to the MPCA carbon monoxide levels of greater than 1,000 ppm as a contingency event. Carbon monoxide levels of greater than 1,000 ppm indicates a possible landfill fire.



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**LEACHATE RECIRCULATION LR 001**

## **2.5 Contingency Action Criteria**

### **2.5.1 Leachate Recirculation Related Contingencies**

- 2.5.2 The permittee shall address leachate recirculation related contingencies within two weeks of discovery in accordance with Minn. R. 7035.2615 and the approved plans.
- 2.5.3 The permittee shall address landfill gas contingencies, including oxygen levels greater than 5% or a landfill gas temperature greater than 140 degrees Fahrenheit at any monitoring location.
- 2.5.4 The permittee shall respond to leachate head levels greater than one foot, leachate seeps on external side slopes, and unusually high volume of leachate in leak detection systems as contingency events.

The permittee shall immediately report leachate spills or releases of greater than five gallons to the Minnesota Duty Officer.
- 2.5.5 The permittee shall report and respond to settlement on side slopes that result in areas of the landfill with exterior side slopes of 3:1 horizontal to vertical (e.g. 33%) or greater as a contingency event.
- 2.5.6 The permittee shall monitor for cracks in the temporary cover or final cover system that may indicate slope instability or a slope failure and report such findings as a contingency event.
- 2.5.7 The permittee shall report odor complaints to the MPCA. If odors become a problem at the facility, the permittee shall update the contingency action plan to address odors.
- 2.5.8 The permittee shall temporarily cease leachate recirculation due to contingency actions related to leachate recirculation. The MPCA must be notified within 24 hours after ceasing recirculation activities. The permittee must follow the steps identified in the approved contingency action plan to correct the problem, or update the contingency action plan if the contingency event was not identified in the plan. Leachate recirculation may not resume without authorization from the MPCA.

## **2.6 Closure Criteria**

### **2.6.1 Cell Closure**

- 2.6.2 The permittee shall close landfill cells or a portion of a landfill cell that achieves settlement stability within 180 days of obtaining survey results that indicate settlement in the cell or portion of a cell is less than one percent of the waste thickness over a one year period, or as weather conditions permit. The cover system construction may be scheduled to coincide with other site construction projects with MPCA approval.
- 2.6.3 The permittee shall identify on a plan sheet included in the annual report areas of the landfill that have final cover and areas of the landfill that have temporary final cover.

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**LEACHATE RECIRCULATION LR 001**

**2.7 Postclosure Criteria**

**2.7.1 Leachate Recirculation -Post Closure**

2.7.2 The permittee shall cease leachate recirculation in a landfill cell during post closure, or before closure, when the leachate COD is less than 1,000 mg/L and BOD is less than 100 mg/L with a BOD:COD ratio less than 0.1; and gas production in a cell drops to 5 percent of peak production.

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### **3. LEACHATE SPRAY IRRIGATION LZ 001**

#### **3.1 Approved Documents**

##### **3.1.1 Approved Plans**

- 3.1.2 The design and operation of the spray irrigation site shall be governed by this permit, the MPCA Land Treatment of Landfill Leachate Guidance Document, or as detailed in the Leachate Management Plan reviewed and approved by MPCA.

#### **3.2 Design and Construction Criteria**

##### **3.2.1 Design Components**

- 3.2.2 Landfill leachate is currently pumped to two treatment ponds with a capacity of 1,700,000 gallons. From the ponds, the leachate may be land applied on an 6.8 acre spray irrigation site adjacent to the landfill, recirculated back into the landfill, or loaded into a tanker truck and hauled to the Mankato Wastewater Treatment Plant.
- 3.2.3 The leachate spray irrigation site is located west of the MSW landfill. The land application area is approximately 8.8 acres. Leachate is pumped from the storage ponds to a center pivot irrigation gun, and from the gun to the land application field.

##### **3.2.4 Location Standards**

- 3.2.5 The permittee shall not land apply leachate within 100 feet of the property line, within 600 feet of a private well or 1,000 feet from a public water supply well, in areas where there is less than 36 inches of soil between ground surface and the seasonal high water level, or in areas designated in Minn. R. 7035.2555.

##### **3.2.6 Demarcation**

- 3.2.7 The permittee shall place flags or posts surrounding each spray application site to mark the boundaries for spray irrigation.

#### **3.3 Operating and Maintenance Criteria**

##### **3.3.1 Certified Operator**

- 3.3.2 The permittee shall have a state certified Class D wastewater treatment operator and a Type V spray irrigation operator directly managing the operation of the leachate spray irrigation systems.

##### **3.3.3 Application Process and Checklist**

- 3.3.4 The permittee shall ensure that leachate transmission pipes are not leaking and that the operational checklist in the approved plans are filled out for each application event. The permittee shall ensure that there is no runoff or ponding at the spray irrigation sites.

##### **3.3.5 Pretreated Leachate Spray Site Hydraulic Loading Requirements**

- 3.3.6 Spray irrigation scheduling shall be based on the Modified Checkbook Method for determining a soil water deficit. There shall be a one half inch soil water deficit remaining in the soil, as determined by the checkbook spreadsheet, after each leachate application event. Hydraulic loading at the spray site shall not result in runoff or ponding.

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**LEACHATE SPRAY IRRIGATION LZ 001**

**Operating and Maintenance Criteria**

**3.3.7 Leachate Treatment**

3.3.8 The permittee shall operate the leachate treatment system to limit the land application of solids. The settleable solids shall be allowed time to settle by turning the aerators and/or circulation equipment off for a minimum of three hours prior to land application of treated leachate.

**3.3.9 Site Inspections**

3.3.10 Inspections of the spray irrigation site shall be performed weekly while in operation. Inspectors are to look for the presence of runoff from the spray site, standing water in the spray site, health of the vegetation, and aerosol drift over the property boundary.

**3.3.11 Nitrogen Loading**

3.3.12 See the most updated version of the MPCA Land Treatment of Landfill Leachate Guidance Document.

**3.3.13 Boron Loading**

3.3.14 The permittee must attempt to limit the annual boron loading rate at the spray sites to 4 lbs./acre/year.

3.3.15 If the boron loading rate exceeds 4 lbs./acre/year then the permittee must inspect the spray site vegetation for evidence of boron induced plant stress, and sample the upper six inches of soil for boron. If the IL for boron is not exceeded in spray site monitoring wells, the vegetation is not stressed, and the boron concentration in the upper six inches of soil is below 2 mg/kg an additional 4 lbs./acre/year of boron may be applied (a total of 8 lbs./acre/year). This cycle may be repeated up to a maximum of 12 lbs./acre/year of boron.

3.3.16 If the boron loading rate exceeds 4 lbs./acre/year and down-gradient spray site monitoring wells exceed the intervention limit for boron then the steps outlined in MR 7035.2815 Subp 4. G. must be followed, and a reduction of the boron loading rate will be required.

3.3.17 The annual boron loading rates, written observations of plant vitality, and monitoring well boron concentrations must be discussed in the land application section of the annual report.

**3.3.18 Spray Site Vegetation**

3.3.19 A perennial cover crop shall be maintained in good health at the land treatment sites

3.3.20 Spray irrigation shall only begin after emergence of vegetation in the spring (usually during May) and shall cease October 31st or until the first hard frost. Spray irrigation of pre-treated leachate may continue beyond October 31st or the first hard frost with MPCA approval.

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**LEACHATE SPRAY IRRIGATION LZ 001**

**Operating and Maintenance Criteria**

- 3.3.21 The only authorized use for spray site vegetation (field cuttings) is application over the MSW landfill intermediate or temporary cover system as a mulch.

The MPCA may allow off-liner use of the field cuttings subsequent to review of chemical analysis of the 8 RCRA metals, PFC's and boron.

The permittee shall not permit the removal of spray site field cuttings from the permitted facility property without MPCA approval.

**3.3.22 Cessation of Leachate Application**

- 3.3.23 Leachate application at any spray irrigation site shall cease for any of the following problems.
1. Groundwater performance standards are exceeded in down gradient monitoring wells;
  2. Surface ponding, runoff, flooding or system hydraulic loading exceeds the agronomic water needs of the vegetation;
  3. The MPCA determines the facility does not meet the location standards in the permit or Minn. R. 7035.2555;
  4. The EC of sprayfield soils is greater than four millisiemens per centimeter (1 mS/cm = 1 mmhos/cm); and
  5. Heavy metals loading exceeds permit or guidance limits.

**3.3.24 Monitoring Criteria**

- 3.3.25 The permittee shall monitor separately for each land application site the volume of leachate land applied daily, daily rainfall amounts, emergence of vegetation in the spring (indicating the starting point for annual irrigation), and soil moisture deficit data.
- 3.3.26 The permittee shall conduct monitoring as detailed in the approved plans and the limits tables of this permit for each spray irrigation site.

**3.4 Monitoring Criteria**

**3.4.1 Salinity Monitoring**

- 3.4.2 Once per month, the permittee shall measure the electrical conductivity (EC) of the spray site soils. If EC is less than four millisiemens per centimeter (1 mS/cm = 1 mmhos/cm), then the next irrigation event can be conducted. If EC is greater than four mS/cm, rainfall or clean water must be allowed to leach salts from the soil until EC is less than four mS/cm. When rainfall or clean water has reduced EC to less than four mS/cm the next irrigation event can be conducted.

**3.4.3 Leachate Analysis Prior To Land Application**

- 3.4.4 The permittee shall sample and analyze leachate prior to land applying the leachate from the leachate treatment ponds.

**3.4.5 Annual Soil Sampling**

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**LEACHATE SPRAY IRRIGATION LZ 001**

**Monitoring Criteria**

- 3.4.6 The permittee shall sample each spray application site annually before the onset of leachate application in the Spring. Each sample shall consist of 15 to 20 subsamples of the upper 6 inches of the soil column, with a minimum of one sample for each spray site, and at least one sample for each 40 acres of spray application area.

The samples shall be tested for percent organic matter, cation exchange capacity, extractable phosphorus, exchangeable potassium, soil pH, and specific conductance.

**3.5 Reporting Criteria**

**3.5.1 Annual Report**

- 3.5.2 The permittee shall include in the Annual Report the volume of leachate land applied, the nutrient/metals/salts loading to the soil based on the concentration and volume of leachate applied, the soil/groundwater monitoring results, the operational problems experienced, the EC data for the each leachate application event, the visible crop vigor status/crop yields/ponding observation based on inspections made.

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**4. MUNICIPAL SOLID WASTE DISPOSAL AREA SA 001**

**4.1 Operating and Maintenance Criteria**

**4.1.1 Waste Activity Status**

4.1.2 This fill area is closed and has received final cover. No additional waste acceptance or disposal is permitted in this area.

**4.1.3 Care and Maintenance**

4.1.4 The permittee must maintain the fill area in accordance with the approved plans.

4.1.5 The permittee must maintain the integrity of the final cover to prevent erosion of the surface and side slopes due to surface water erosion, reduce wind erosion, minimize particulate matter, retain slope stability, minimize vector intrusion and maintain vegetative growth.

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## **5. MUNICIPAL SOLID WASTE DISPOSAL AREA SA 002**

### **5.1 Design and Construction Criteria**

#### **5.1.1 Certificate of Need**

5.1.2 No new mixed municipal solid waste capacity may be permitted without a Certificate of Need (CON) issued by the commissioner. Once the 2,952,000 cubic yards of capacity issued in 1973 has been utilized, Blue Earth County must obtain a CON from MPCA to continue disposing of unprocessed MSW. The permittee shall track the amount of CON used and remaining CON on an annual basis as part of the facility's annual report.

#### **5.1.3 Location of Disposal Area**

5.1.4 The permittee must locate any proposed future expansions of the disposal area in accordance with Minn. R. 7035.2555 and Minn. R. 7035.2815, subp. 2.

#### **5.1.5 Construction Requirements**

5.1.6 The permittee must construct or install the phases, cells, liners, leachate management system, gas management system and water monitoring system of the disposal area in accordance with the approved plans and specifications.

5.1.7 The permittee must evaluate soils intended for use as cover or liner material in accordance with Minn. R. 7035.2815, subp. 8.

#### **5.1.8 Disposal Area Design Requirements**

5.1.9 The permittee must design any proposed future expansions or modifications of the disposal area in accordance with the design requirements outlined in Minn. R. 7035.2815, subp. 5. Also, at a minimum, all major design features must incorporate the construction requirements of Minn. R. 7035.2815, subp. 12. into the project specifications.

#### **5.1.10 Liner Design Requirements**

5.1.11 The permittee must design any proposed future expansions or modifications of the disposal area liner in accordance with the design requirements outlined in Minn. R. 7035.2815, subp. 7.

#### **5.1.12 Cover System Design Requirements**

5.1.13 The permittee must design any proposed future expansions or modifications of the disposal area cover system in accordance with Minn. R. 7035.2815, subp. 6, items D and E.

#### **5.1.14 Leachate Management System Design Requirements**

5.1.15 The permittee must design any proposed future expansions or modifications of the disposal area to include a leachate detection, collection, and on-site or off-site treatment system in accordance with Minn. R. 7035.2815, subp. 9.

#### **5.1.16 Water Monitoring System Design Requirements**

5.1.17 The permittee must design any future expansions or modifications of the disposal area to include a water monitoring system in accordance with Minn. R. 7035.2815, subp. 10.

#### **5.1.18 Gas Management System Design Requirements**



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**MUNICIPAL SOLID WASTE DISPOSAL AREA SA 002**

**Design and Construction Criteria**

- 5.1.19 The permittee must design any proposed future expansions or modifications of the disposal area to include a gas monitoring, collection and treatment system in accordance with Minn. R. 7035.2815, subp. 11.

**5.2 Operating and Maintenance Criteria**

**5.2.1 Frost Protection**

- 5.2.2 The permittee must place at least six feet of solid waste, or an MPCA approved alternative insulating material, on any newly constructed liner by December 31 of each year. If an alternative insulating material is utilized, the permittee must install thermo couples in the newly lined area, and must maintain the approved thickness of the insulating material until six feet of solid waste has been placed on the liner. If an alternative insulating material is utilized, the permittee must remove the material prior to the placement of solid waste to prevent biofouling of the drainage layer. No disposal may take place on uncovered areas after December 31 without testing the liner integrity and obtaining written approval from the commissioner.

**5.2.3 Run-On / Run-Off Control System**

- 5.2.4 The permittee must maintain a run-on control system to prevent flow onto any waste activity area and a run-off control system to collect and control flow from the waste activity area for at least the water volume resulting from a 24-hour, 25-year storm.

**5.2.5 Phase Development**

- 5.2.6 The permittee must develop the site in phases according to the approved phase development plans and specifications. Each phase must contain individual cells that will provide for filling in a manner to achieve final waste elevations as rapidly as possible.

**5.2.7 Staking of Fill Phases**

- 5.2.8 The permittee must outline each fill phase with grade stakes or another marking method before the deposition of any waste.

**5.2.9 Spreading and Compacting**

- 5.2.10 The permittee must limit the disposal of municipal solid waste to as small an area as practical and with appropriate facilities to confine wind-blown material within the area.
- 5.2.11 The permittee must spread and compact solid waste as densely as practicable in layers which are two feet or less in depth before compaction.

**5.2.12 Grading**

- 5.2.13 The permittee must place and compact the mixed municipal solid waste at a maximum three-to-one slope to promote drainage off of the fill area, and to allow for the adequate application of intermittent and intermediate cover.

**5.2.14 Cover Material Stockpile**

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**MUNICIPAL SOLID WASTE DISPOSAL AREA SA 002**

**Operating and Maintenance Criteria**

5.2.15 The permittee must maintain suitable cover material at the site. If suitable cover material is not available on-site, cover material must be delivered to and stockpiled at the site. The commissioner reserves the right to alter the type of cover material and the method of placement if problems exist.

**5.2.16 Intermittent Cover**

5.2.17 The permittee must place an intermittent cover upon all exposed solid waste daily. The cover depth must be sufficient to cover all waste completely and must be at least six inches if soil or similar material is used. The permittee may also utilize an Alternative Daily Cover (ADC) as approved by the commissioner in writing. However, the commissioner reserves the right to withdraw approval if problems exist resulting from the use of the ADC.

**5.2.18 Intermediate Cover**

5.2.19 The permittee must place intermediate cover on all filled surfaces of the facility where no additional solid waste will be deposited within 30 days. The intermediate cover must consist of compacted material of sufficient depth, at least 12 inches if soil or similar material is used, to cover the waste completely, and graded to prevent surface water ponding.

**5.2.20 Final Cover**

5.2.21 The permittee must begin closure of each fill phase within 30 days after reaching final permitted waste elevations. Each fill phase, upon reaching final permitted waste elevation must be covered in accordance with the approved plans and specifications, and in accordance with Minn. R. 7035.2815, subp. 6.

5.2.22 The permittee must maintain the final cover system on all closed portions of the active waste disposal area in accordance with Minn. R. 7035.2815, subp. 6, items D and E.

**5.2.23 Surface Water Drainage**

5.2.24 The permittee must divert surface water drainage around and away from the site operating area. Slopes greater than 200 feet must include drainage ways and design features to prevent erosion.

**5.2.25 Water Monitoring System**

5.2.26 The permittee must maintain the integrity and functionality of the water monitoring network. The permittee must operate and maintain a water monitoring system in accordance with the approved plans and specifications, and in accordance with Minn. R. 7035.2815, subp. 10.

**5.2.27 Leachate System**

5.2.28 The permittee must maintain the integrity and functionality of the leachate detection, collection, and on-site or off-site treatment system. The permittee must also operate and maintain the leachate detection, collection, and on-site or off-site treatment system in accordance with the approved plans and specifications, and in accordance with Minn. R. 7035.2815, subp. 13.

**5.2.29 Gas Monitoring, Collection and Treatment System**

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**MUNICIPAL SOLID WASTE DISPOSAL AREA SA 002**

**Operating and Maintenance Criteria**

5.2.30 The permittee must maintain a gas management system in accordance with the approved plans and specifications, and in accordance with Minn. R. 7035.2815, subp. 11. The concentration of any explosive gas must not exceed its lower explosion limit at the property boundary or 25 percent of its lower explosion limit in and around facility structures or any other on-site monitoring point.

**5.2.31 Permanent Marking of Fill Boundaries**

5.2.32 The permittee must identify all trenches or fill areas with permanent markers.

**5.3 Monitoring Criteria**

**5.3.1 Groundwater Performance Standards**

5.3.2 The permittee must design, construct, operate, and maintain the disposal area to achieve compliance with the analytical limits set forth in the Limits Table(s) of this permit. These limits are based upon the Minnesota Department of Health, Health Risk Limits (HRL), Health-Based Values (HBV), Risk Assessment Advice (RAA), and Maximum Contaminate Level (MCL) and replace the standards listed in Minn. R. 7035.2815, subp. 4, item F, as provided for in Minn. R. 7035.2815, subp. 4, item H.

**5.3.3 Compliance Boundary**

5.3.4 The permittee must establish compliance boundaries in accordance with Minn. R. 7035.2815, subp. 4, items A through E.

**5.3.5 Background Water Quality Monitoring**

5.3.6 The permittee must determine the initial water quality in new monitoring points and monitoring systems, and perform background monitoring in accordance with the approved plan and specifications, and in accordance with Minn. R. 7035.2815, subp. 14, item E.

**5.3.7 Monitoring Protocol**

5.3.8 The permittee must develop and keep current a written monitoring protocol for the disposal area in accordance with the approved plan and specifications, and in accordance with Minn. R. 7035.2815, subp. 14, item G. The permittee must ensure the protocol is followed during sampling and sample analysis.

**5.3.9 Groundwater Quality Sampling and Analysis**

5.3.10 The permittee must conduct groundwater quality sampling and analysis in accordance with the approved plans and specifications, and in accordance with Minn. R. 7035.2815 subp. 14, and must include the monitoring stations identified in the Limits Table(s) of this permit. The permittee must conduct sampling in accordance with the schedule shown in the Limits Table(s) of this permit.

**5.3.11 Leachate Quality Sampling and Analysis**

5.3.12 The permittee must conduct leachate quality sampling and analysis in accordance with the approved plans and specifications, and in accordance with Minn. R. 7035.2815 subp. 14, and must include the monitoring stations identified in the Limits Table(s) of this permit. The permittee must conduct sampling in accordance with the schedule shown in the Limits Table(s) of this permit.

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**MUNICIPAL SOLID WASTE DISPOSAL AREA SA 002**

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**Monitoring Criteria**

**5.3.13 Surface Water Quality Sampling and Analysis**

5.3.14 The permittee must conduct surface water quality sampling and analysis in accordance with the approved plans and specifications, and in accordance with Minn. R. 7035.2815 subp. 14 and must include the monitoring stations identified in the Limits Table(s) of this permit. The permittee must conduct sampling in accordance with the schedule shown in the Limits Table(s) of this permit.

**5.3.15 Gas Monitoring**

5.3.16 The permittee must implement a gas monitoring program and conduct quarterly methane monitoring, at a minimum, in and around facility structures and on the facility property boundary in accordance with the approved plans and specifications, and in accordance with Minn. R. 7035.2815, subp. 11 and 40 CFR 258.23.

**5.3.17 Exceedence of Intervention Limit**

5.3.18 The permittee must take the actions listed in Minn. R. 7035.2815, subp. 4, item G if an intervention limit established in this permit is exceeded.

**5.4 Reporting Criteria**

**5.4.1 Routine Monitoring Reporting**

5.4.2 The permittee must submit routine monitoring results accompanied by information sufficient to establish the reliability, precision, and accuracy of the reported values, including the requirements of Minn. R. 7035.2815, subp. 14, item P. The permittee must submit the monitoring results to the commissioner according to the schedule in the Required Actions and Submittals Table(s) of this permit.

**5.4.3 Annual Monitoring Evaluation**

5.4.4 The permittee must submit an annual water and leachate monitoring evaluation report in accordance with Minn. R. 7035.2585 and 7035.2815, subp. 14, item Q. The permittee must submit the report to the commissioner, as part of the annual facility report, according to the schedule in the Required Actions and Submittals Table(s) of this permit.

5.4.5 The permittee must submit an annual gas monitoring evaluation report summarizing the results of the quarterly methane monitoring in accordance with Minn. R. 7035.2815, subp. 11 and 40 CFR 258.23. The permittee must submit the report to the commissioner, as part of the annual facility report, according to the schedule in the Required Actions and Submittals Table(s) of this permit.

**5.5 Financial Criteria**

**5.5.1 Financial Assurance**

5.5.2 The permittee must establish and maintain financial assurance in accordance with Minn. R. 7035.2665 to 7035.2805.

# Waste Capacity Table

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Action: PER011

	<i>DRAFT</i>	<i>DRAFT</i>	<i>DRAFT</i>	<i>DRAFT</i>	<i>DRAFT</i>	<i>DRAFT</i>	<i>DRAFT</i>	<i>DRAFT</i>	
WA ID	Waste Activity Type	Status	Permitted Area	Units	Permitted Capacity	Units	Design Capacity	Units	Comments
LR001	Leachate Recirculation	Open	32.00	acres	1.00		1.00		Amount to be recirculated will vary.
LZ001	Leachate Spray Irrigation	Open	6.80	acres	1.00		1.00		Amount of leachate sprayed will vary depending on the rainfall events during the growing season.
SA001	Municipal Solid Waste Disposal Area	Closed	27.00	acres	1,686,000.00	cubic yards	1,686,000.00	cubic yards	Opened-1973; closed-1994.
SA002	Municipal Solid Waste Disposal Area	Open	32.00	acres	2,462,700.00	cubic yards	3,626,600.00	cubic yards	Permit capacity = Phase 1, 2, 3, and 6.
ST001	Solid Waste Storage Area	Open	500.00	square feet	75.00	cubic yards	75.00	cubic yards	Facility stores tires, electronics, appliances, and recyclables.
ST002	Solid Waste Storage Area	Open	1.00	acres	10,000.00	cubic yards	10,000.00	cubic yards	Concrete storage.
TS001	Tire Storage Area	Open	200.00	square feet	1,000.00	PTEs	1,000.00	PTEs	

## Required Actions and Submittals Table

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Action: PER011

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Subject Item I.D. Total Facility

### Required Actions/Submittals

Frequency/Due Date	Action or Submittal	Requirement
TBD	Submit Permit Application	To allow for adequate MPCA review time and to avoid possible termination of the permit at the time the permit expires, an application for reissuance of the permit must be submitted to the Commissioner no later than 180 calendar days before the expiration date of the permit.
Annually	Submit Annual Facility Report	An annual facility report for the preceding calendar year must be submitted to the Commissioner by February 1 of each year. The report must include the information identified in Minn. R. 7035.2585, Minn. R. 7035.2825, subp. 9, item K, and Minn. R. 7035.2815, subp. 13, item 3, and include summary evaluation reports and specific annual reporting requirements for each waste activity.
Annually	Submit Annual Gas Monitoring Evaluation Report	An annual gas monitoring evaluation report must be submitted to the Commissioner as part of the annual report by February 1 of each year. The report must summarize the results of the quarterly methane monitoring in accordance with Minn. R. 7035.2815, subp. 11 and 40 CFR Part 258, subp. C, Sec. 258.23. Submit the report to the commissioner, as part of the annual facility report.
Annually	Submit Spring Water Monitoring Report	A spring water monitoring report must be submitted by June 30 of each year. The water monitoring results must be accompanied by information sufficient to establish the reliability, precision, and accuracy of the reported values, including the requirements of Minn. R. 7035.2815, subp. 14, item P.
Annually	Submit Autumn Water Monitoring Report	An autumn water monitoring report must be submitted by January 31 of each year. The water monitoring results must be accompanied by information sufficient to establish the reliability, precision, and accuracy of the reported values, including the requirements of Minn. R. 7035.2815, subp. 14, item P.
Annually	Submit Summer Water Monitoring Report	A summer water monitoring report must be submitted by September 30 of each year. The water monitoring results must be accompanied by information sufficient to establish the reliability, precision, and accuracy of the reported values, including the requirements of Minn. R. 7035.2815, subp. 14, item P.
Annually	Submit Annual Water Monitoring Evaluation Report	An annual water and leachate monitoring evaluation report must be submitted by February 1 of each year. The report must include a summary and discussion of the monitoring results for the preceding calendar year.

## Required Actions and Submittals Table

**Report Date:** 02/01/2013

**Facility:** Ponderosa Sanitary Landfill

**Permit** SW-87

**Action:** PER011

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**Subject Item I.D.** LZ001

### Required Actions/Submittals

Frequency/Due Date	Action or Submittal	Requirement
Annually	Submit Annual Waste Activity Report	The permittee shall include in the Annual Report the volume of leachate land applied, the nutrient/metals/salts loading to the soil based on the concentration and volume of leachate applied, the soil/groundwater monitoring results, the operational problems experienced, the EC data for the each leachate application event, the visible crop vigor status/crop yields/ponding observation based on inspections made.

## LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

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This Limits Table applies to the following stations:

Clustered Gas Wellhead GW-1 , Clustered Gas Wellhead GW-2 , Clustered Gas Wellhead GW-3

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Methane Gas	PCA-01-1	-	%	Monthly	Also sample for % oxygen, gas velocity, vacuum
Static Water Level (Elevation, MSL)	PCA-00-1	-	ft	Quarterly	
Temperature	T-1-21	-	Deg C	Monthly	Sample both the waste zone and vadose zone

Permit Issued:

Permit Expires:



# LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

East pond , Untreated leachate , West pond

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	-	ug/L	Spring, Summer and Fall	
1,1,1-Trichloroethane	715-56	-	ug/L	Spring, Summer and Fall	
1,1,2,2-Tetrachloroethane	793-45	-	ug/L	Spring, Summer and Fall	
1,1,2-Trichloroethane	790-05	-	ug/L	Spring, Summer and Fall	
1,1,2-Trichlorotrifluoroethane	761-31	-	ug/L	Spring, Summer and Fall	
1,1-Dichloroethane	753-43	-	ug/L	Spring, Summer and Fall	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	-	ug/L	Spring, Summer and Fall	
1,1-Dichloropropene	563-58-6	-	ug/L	Spring, Summer and Fall	
1,2-(trans-) Dichloroethylene	156-60-5	-	ug/L	Spring, Summer and Fall	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Spring, Summer and Fall	
1,2,3-Trichloropropane	961-84	-	ug/L	Spring, Summer and Fall	
1,2,4-Trichlorobenzene	120-82-1	-	ug/L	Spring, Summer and Fall	
1,2,4-Trimethylbenzene	956-36	-	ug/L	Spring, Summer and Fall	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	-	ug/L	Spring, Summer and Fall	
1,2-Dichlorobenzene (ortho-)	955-01	-	ug/L	Spring, Summer and Fall	
1,2-Dichloroethane	107-06-2	-	ug/L	Spring, Summer and Fall	
1,2-Dichloroethylene (cis-)	156-59-2	-	ug/L	Spring, Summer and Fall	
1,2-Dichloropropane	788-75	-	ug/L	Spring, Summer and Fall	
1,3,5-Trimethylbenzene	108-67-8	-	ug/L	Spring, Summer and Fall	
1,3-Dichlorobenzene (meta-)	541-73-1	-	ug/L	Spring, Summer and Fall	
1,3-Dichloropropane	142-28-9	-	ug/L	Spring, Summer and Fall	
1,4-Dichlorobenzene (para-)	106-46-7	-	ug/L	Spring, Summer and Fall	
2,2-Dichloropropane	594-20-7	-	ug/L	Spring, Summer and Fall	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Spring, Summer and Fall	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Spring, Summer and Fall	
Acetone	676-41	-	ug/L	Spring, Summer and Fall	
Alkalinity, Bicarbonate as CaCO3	381-23-26	-	ug/L	Spring, Summer and Fall	
Alkalinity, Carbonate as CaCO3	715-23	-	ug/L	Spring, Summer and Fall	
Alkalinity, Total as CaCO3	T-0-05	-	mg/L	Spring, Summer and Fall	
Allyl chloride; (3 chloropropene)	107-05-1	-	ug/L	Spring, Summer and Fall	
Ammonia Nitrogen	766-44-17	-	mg/L	Spring, Summer and Fall	

Permit Issued:

Permit Expires:

# LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

East pond , Untreated leachate , West pond

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Appearance	1	-	N/A	Spring, Summer and Fall	
Arsenic	744-03-82	-	ug/L	Spring, Summer and Fall	
Barium	744-03-93	-	ug/L	Spring, Summer and Fall	
Benzene	714-32	-	ug/L	Spring, Summer and Fall	
Biochemical Oxygen Demand (BOD)	C-0-02	-	ug/L	Spring, Summer and Fall	
Boron	744-04-28	-	ug/L	Spring, Summer and Fall	
Bromide	249-59-679	-	ug/L	Spring, Summer and Fall	
Bromobenzene	108-86-1	-	ug/L	Spring, Summer and Fall	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Spring, Summer and Fall	
Bromodichloromethane (Dichlorobromomethane)	752-74	-	ug/L	Spring, Summer and Fall	
Bromoform	752-52	-	ug/L	Spring, Summer and Fall	
Bromomethane (Methyl bromide)	748-39	-	ug/L	Spring, Summer and Fall	
Cadmium	744-04-39	-	ug/L	Spring, Summer and Fall	
Calcium	744-07-02	-	mg/L	Spring, Summer and Fall	
Carbon tetrachloride	562-35	-	ug/L	Spring, Summer and Fall	
Chemical Oxygen Demand (COD)	C-0-04	-	ug/L	Spring, Summer and Fall	
Chloride	168-87-006	-	mg/L	Spring, Summer and Fall	
Chlorobenzene; (monochlorobenzene)	108-90-7	-	ug/L	Spring, Summer and Fall	
Chlorodibromomethane;(Dibromochloromethane)	124-48-1	-	ug/L	Spring, Summer and Fall	
Chloroethane	750-03	-	ug/L	Spring, Summer and Fall	
Chloroform	676-63	-	ug/L	Spring, Summer and Fall	
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Spring, Summer and Fall	
Chromium	744-04-73	-	ug/L	Spring, Summer and Fall	
cis-1,3-Dichloropropene	100-61-015	-	ug/L	Spring, Summer and Fall	
Cobalt	744-04-84	-	ug/L	Spring, Summer and Fall	
Copper	744-05-08	-	ug/L	Spring, Summer and Fall	
Cumene; (Isopropylbenzene)	988-28	-	ug/L	Spring, Summer and Fall	
Cyanide, free	571-25	-	ug/L	Spring, Summer and Fall	
Dibromochloropropane; (DBCP)	961-28	-	ug/L	Spring, Summer and Fall	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Spring, Summer and Fall	
Dichlorodifluoromethane	757-18	-	ug/L	Spring, Summer and Fall	

Permit Issued:

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# LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

East pond , Untreated leachate , West pond

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Dichlorofluoromethane	754-34	-	ug/L	Spring, Summer and Fall	
Dichloromethane; (Methylene chloride)	750-92	-	ug/L	Spring, Summer and Fall	
Dissolved Solids, Total	C-0-10	-	mg/L	Spring, Summer and Fall	
Eh (Oxidation potential)	4	-	mV	Spring, Summer and Fall	
Ethyl benzene	100-41-4	-	ug/L	Spring, Summer and Fall	
Ethyl ether	602-97	-	ug/L	Spring, Summer and Fall	
Hexachlorobutadiene	876-83	-	ug/L	Spring, Summer and Fall	
Iron	743-98-96	-	ug/L	Spring, Summer and Fall	
Lead	743-99-21	-	ug/L	Spring, Summer and Fall	
Magnesium	743-99-54	-	ug/L	Spring, Summer and Fall	
Manganese	743-99-65	-	ug/L	Spring, Summer and Fall	
Mercury	743-99-76	-	ug/L	Spring, Summer and Fall	
Methyl ethyl ketone (MEK)	789-33	-	ug/L	Spring, Summer and Fall	
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	-	ug/L	Spring, Summer and Fall	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	-	ug/L	Spring, Summer and Fall	
Molybdenum	743-99-87	-	ug/L	Spring, Summer and Fall	
Naphthalene	912-03	-	ug/L	Spring, Summer and Fall	
n-Butyl Benzene	104-51-8	-	ug/L	Spring, Summer and Fall	
Nickel	744-00-20	-	ug/L	Spring, Summer and Fall	
Nitrate + Nitrite	C-0-05	-	ug/L	Spring, Summer and Fall	
Nitrogen, Kjeldahl, Total	C-0-21	-	ug/L	Spring, Summer and Fall	
n-Propyl benzene	103-65-1	-	ug/L	Spring, Summer and Fall	
pH	C-0-06	-	SU	Spring, Summer and Fall	
Phosphorus	772-31-40	-	ug/L	Spring, Summer and Fall	
p-Isopropyltoluene	998-76	-	ug/L	Spring, Summer and Fall	
Potassium	744-00-97	-	ug/L	Spring, Summer and Fall	
sec-Butyl Benzene	135-98-8	-	ug/L	Spring, Summer and Fall	
Selenium	778-24-92	-	ug/L	Spring, Summer and Fall	
Silver	744-02-24	-	ug/L	Spring, Summer and Fall	
Sodium	744-02-35	-	ug/L	Spring, Summer and Fall	
Sodium Adsorption Ratio	PCA-00-3	-	meq/L	Spring, Summer and Fall	

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## LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

East pond , Untreated leachate , West pond

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Specific Conductance	C-0-11	-	umho/cm	Spring, Summer and Fall	
Styrene	100-42-5	-	ug/L	Spring, Summer and Fall	
Sulfate	148-08-798	-	mg/L	Spring, Summer and Fall	
Suspended Solids, Total	C-0-09	-	mg/L	Spring, Summer and Fall	
Temperature	T-1-21	-	Deg C	Spring, Summer and Fall	
tert-Butyl Benzene	980-66	-	ug/L	Spring, Summer and Fall	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	-	ug/L	Spring, Summer and Fall	
Tetrahydrofuran	109-99-9	-	ug/L	Spring, Summer and Fall	
Toluene	108-88-3	-	ug/L	Spring, Summer and Fall	
Trichloroethylene; (TCE)	790-16	-	ug/L	Spring, Summer and Fall	
Trichlorofluoromethane	756-94	-	ug/L	Spring, Summer and Fall	
Vinyl chloride; (chloroethene)	750-14	-	ug/L	Spring, Summer and Fall	
Xylenes (mixture of o,m,p)	133-02-07	-	ug/L	Spring, Summer and Fall	
Zinc	744-06-66	-	ug/L	Spring, Summer and Fall	

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## LIMITS TABLE

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Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

Gas Flare

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Methane Gas	PCA-01-1	-	%	Monthly	Also sample for % oxygen, CO, flow rate, vacuu
Temperature	T-1-21	-	Deg C	Monthly	Gas temperature at the INLET, and at the FLAR

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# LIMITS TABLE

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Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

Klammert Home , LaBorde Home , Landfill Office , Shop Well , Weimert Home

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	17.5	ug/L	Summer	
1,1,1-Trichloroethane	715-56	2,250.0	ug/L	Summer	
1,1,2,2-Tetrachloroethane	793-45	0.5	ug/L	Summer	
1,1,2-Trichloroethane	790-05	0.75	ug/L	Summer	
1,1,2-Trichlorotrifluoroethane	761-31	-	ug/L	Summer	
1,1-Dichloroethane	753-43	25.0	ug/L	Summer	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	50.0	ug/L	Summer	
1,1-Dichloropropene	563-58-6	-	ug/L	Summer	
1,2-(trans-) Dichloroethylene	156-60-5	10.0	ug/L	Summer	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Summer	
1,2,3-Trichloropropane	961-84	0.00075	ug/L	Summer	
1,2,4-Trichlorobenzene	120-82-1	1.0	ug/L	Summer	
1,2,4-Trimethylbenzene	956-36	25.0	ug/L	Summer	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	0.001	ug/L	Summer	
1,2-Dichlorobenzene (orth-)	955-01	150.0	ug/L	Summer	
1,2-Dichloroethane	107-06-2	0.25	ug/L	Summer	
1,2-Dichloroethylene (cis-)	156-59-2	12.5	ug/L	Summer	
1,2-Dichloropropane	788-75	1.25	ug/L	Summer	
1,3,5-Trimethylbenzene	108-67-8	25.0	ug/L	Summer	
1,3-Dichlorobenzene (meta-)	541-73-1	150.0	ug/L	Summer	
1,3-Dichloropropane	142-28-9	-	ug/L	Summer	
1,4-Dichlorobenzene (para-)	106-46-7	2.5	ug/L	Summer	
2,2-Dichloropropane	594-20-7	-	ug/L	Summer	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Summer	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Summer	
Acetone	676-41	1,000.0	ug/L	Summer	
Allyl chloride; (3 chloropropene)	107-05-1	7.5	ug/L	Summer	
Benzene	714-32	0.5	ug/L	Summer	
Bromobenzene	108-86-1	-	ug/L	Summer	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Summer	
Bromodichloromethane (Dichlorobromomethane)	752-74	1.5	ug/L	Summer	

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# LIMITS TABLE

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Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

Klammert Home , LaBorde Home , Landfill Office , Shop Well , Weimert Home

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Bromoform	752-52	10.0	ug/L	Summer	
Bromomethane (Methyl bromide)	748-39	2.5	ug/L	Summer	
Carbon tetrachloride	562-35	0.25	ug/L	Summer	
Chlorobenzene; (monochlorobenzene)	108-90-7	25.0	ug/L	Summer	
Chlorodibromomethane;(Dibromochloromethane)	124-48-1	2.5	ug/L	Summer	
Chloroethane	750-03	-	ug/L	Summer	
Chloroform	676-63	7.5	ug/L	Summer	
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Summer	
cis-1,3-Dichloropropene	100-61-015	-	ug/L	Summer	
Cumene; (Isopropylbenzene)	988-28	75.0	ug/L	Summer	
Dibromochloropropane; (DBCP)	961-28	0.05	ug/L	Summer	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Summer	
Dichlorodifluoromethane	757-18	175.0	ug/L	Summer	
Dichlorofluoromethane	754-34	-	ug/L	Summer	
Dichloromethane; (Methylene chloride)	750-92	1.25	ug/L	Summer	
Dissolved Oxygen, Field	T-1-05	-	mg/L	Summer	Field Only
Eh (Oxidation potential)	4	-	mV	Summer	Field and Lab
Ethyl benzene	100-41-4	12.5	ug/L	Summer	
Ethyl ether	602-97	50.0	ug/L	Summer	
Hexachlorobutadiene	876-83	0.25	ug/L	Summer	
Methyl ethyl ketone (MEK)	789-33	1,000.0	ug/L	Summer	
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	75.0	ug/L	Summer	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	-	ug/L	Summer	
Naphthalene	912-03	17.5	ug/L	Summer	
n-Butyl Benzene	104-51-8	-	ug/L	Summer	
n-Propyl benzene	103-65-1	-	ug/L	Summer	
pH	C-0-06	-	SU	Summer	Field and Lab
p-Isopropyltoluene	998-76	-	ug/L	Summer	
sec-Butyl Benzene	135-98-8	-	ug/L	Summer	
Specific Conductance	C-0-11	-	umho/cm	Summer	Field and Lab
Styrene	100-42-5	25.0	ug/L	Summer	

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# LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

Klammert Home , LaBorde Home , Landfill Office , Shop Well , Weimert Home

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Temperature	T-1-21	-	Deg C	Summer	Field Only
tert-Butyl Benzene	980-66	-	ug/L	Summer	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	1.25	ug/L	Summer	
Tetrahydrofuran	109-99-9	25.0	ug/L	Summer	
Toluene	108-88-3	50.0	ug/L	Summer	
Trichloroethylene; (TCE)	790-16	1.25	ug/L	Summer	
Trichlorofluoromethane	756-94	500.0	ug/L	Summer	
Turbidity, Field	G-0-19	-	NTU	Summer	Field Only
Vinyl chloride; (chloroethene)	750-14	0.05	ug/L	Summer	
Xylenes (mixture of o,m,p)	133-02-07	75.0	ug/L	Summer	

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# LIMITS TABLE

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Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

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Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
Landfill Gas Condensate Tank.

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	-	ug/L	Spring, Summer and Fall	
1,1,1-Trichloroethane	715-56	-	ug/L	Spring, Summer and Fall	
1,1,2,2-Tetrachloroethane	793-45	-	ug/L	Spring, Summer and Fall	
1,1,2-Trichloroethane	790-05	-	ug/L	Spring, Summer and Fall	
1,1,2-Trichlorotrifluoroethane	761-31	-	ug/L	Spring, Summer and Fall	
1,1-Dichloroethane	753-43	-	ug/L	Spring, Summer and Fall	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	-	ug/L	Spring, Summer and Fall	
1,1-Dichloropropene	563-58-6	-	ug/L	Spring, Summer and Fall	
1,2-(trans-) Dichloroethylene	156-60-5	-	ug/L	Spring, Summer and Fall	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Spring, Summer and Fall	
1,2,3-Trichloropropane	961-84	-	ug/L	Spring, Summer and Fall	
1,2,4-Trichlorobenzene	120-82-1	-	ug/L	Spring, Summer and Fall	
1,2,4-Trimethylbenzene	956-36	-	ug/L	Spring, Summer and Fall	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	-	ug/L	Spring, Summer and Fall	
1,2-Dichlorobenzene (ortho-)	955-01	-	ug/L	Spring, Summer and Fall	
1,2-Dichloroethane	107-06-2	-	ug/L	Spring, Summer and Fall	
1,2-Dichloroethylene (cis-)	156-59-2	-	ug/L	Spring, Summer and Fall	
1,2-Dichloropropane	788-75	-	ug/L	Spring, Summer and Fall	
1,3,5-Trimethylbenzene	108-67-8	-	ug/L	Spring, Summer and Fall	
1,3-Dichlorobenzene (meta-)	541-73-1	-	ug/L	Spring, Summer and Fall	
1,3-Dichloropropane	142-28-9	-	ug/L	Spring, Summer and Fall	
1,4-Dichlorobenzene (para-)	106-46-7	-	ug/L	Spring, Summer and Fall	
2,2-Dichloropropane	594-20-7	-	ug/L	Spring, Summer and Fall	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Spring, Summer and Fall	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Spring, Summer and Fall	
Acetone	676-41	-	ug/L	Spring, Summer and Fall	
Allyl chloride; (3 chloropropene)	107-05-1	-	ug/L	Spring, Summer and Fall	
Benzene	714-32	-	ug/L	Spring, Summer and Fall	
Bromobenzene	108-86-1	-	ug/L	Spring, Summer and Fall	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Spring, Summer and Fall	
Bromodichloromethane (Dichlorobromomethane)	752-74	-	ug/L	Spring, Summer and Fall	

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# LIMITS TABLE

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Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
Landfill Gas Condensate Tank.

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Bromoform	752-52	-	ug/L	Spring, Summer and Fall	
Bromomethane (Methyl bromide)	748-39	-	ug/L	Spring, Summer and Fall	
Carbon tetrachloride	562-35	-	ug/L	Spring, Summer and Fall	
Chlorobenzene; (monochlorobenzene)	108-90-7	-	ug/L	Spring, Summer and Fall	
Chlorodibromomethane;(Dibromochloromethane)	124-48-1	-	ug/L	Spring, Summer and Fall	
Chloroethane	750-03	-	ug/L	Spring, Summer and Fall	
Chloroform	676-63	-	ug/L	Spring, Summer and Fall	
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Spring, Summer and Fall	
cis-1,3-Dichloropropene	100-61-015	-	ug/L	Spring, Summer and Fall	
Cumene; (Isopropylbenzene)	988-28	-	ug/L	Spring, Summer and Fall	
Dibromochloropropane; (DBCP)	961-28	-	ug/L	Spring, Summer and Fall	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Spring, Summer and Fall	
Dichlorodifluoromethane	757-18	-	ug/L	Spring, Summer and Fall	
Dichlorofluoromethane	754-34	-	ug/L	Spring, Summer and Fall	
Dichloromethane; (Methylene chloride)	750-92	-	ug/L	Spring, Summer and Fall	
Eh (Oxidation potential)	4	-	mV	Spring, Summer and Fall	
Ethyl benzene	100-41-4	-	ug/L	Spring, Summer and Fall	
Ethyl ether	602-97	-	ug/L	Spring, Summer and Fall	
Hexachlorobutadiene	876-83	-	ug/L	Spring, Summer and Fall	
Methyl ethyl ketone (MEK)	789-33	-	ug/L	Spring, Summer and Fall	
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	-	ug/L	Spring, Summer and Fall	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	-	ug/L	Spring, Summer and Fall	
Naphthalene	912-03	-	ug/L	Spring, Summer and Fall	
n-Butyl Benzene	104-51-8	-	ug/L	Spring, Summer and Fall	
n-Propyl benzene	103-65-1	-	ug/L	Spring, Summer and Fall	
pH	C-0-06	-	SU	Spring, Summer and Fall	
p-Isopropyltoluene	998-76	-	ug/L	Spring, Summer and Fall	
sec-Butyl Benzene	135-98-8	-	ug/L	Spring, Summer and Fall	
Specific Conductance	C-0-11	-	umho/cm	Spring, Summer and Fall	
Static Water Level (Elevation, MSL)	PCA-00-1	-	ft	Spring, Summer and Fall	
Styrene	100-42-5	-	ug/L	Spring, Summer and Fall	

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Facility: Ponderosa Sanitary Landfill

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Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
Landfill Gas Condensate Tank.

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Temperature	T-1-21	-	Deg C	Spring, Summer and Fall	
tert-Butyl Benzene	980-66	-	ug/L	Spring, Summer and Fall	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	-	ug/L	Spring, Summer and Fall	
Tetrahydrofuran	109-99-9	-	ug/L	Spring, Summer and Fall	
Toluene	108-88-3	-	ug/L	Spring, Summer and Fall	
Trichloroethylene; (TCE)	790-16	-	ug/L	Spring, Summer and Fall	
Trichlorofluoromethane	756-94	-	ug/L	Spring, Summer and Fall	
Vinyl chloride; (chloroethene)	750-14	-	ug/L	Spring, Summer and Fall	
Xylenes (mixture of o,m,p)	133-02-07	-	ug/L	Spring, Summer and Fall	

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Permit SW-87

Standard Landfill Monitoring Periods:

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Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

LD-0 , LD-1 , LD-10 , LD-11 , LD-2 , LD-3 , LD-4 , LD-5 , LD-6 , LD-7 , LD-8 , LD-9

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	-	ug/L	Spring, Summer and Fall	
1,1,1-Trichloroethane	715-56	-	ug/L	Spring, Summer and Fall	
1,1,2,2-Tetrachloroethane	793-45	-	ug/L	Spring, Summer and Fall	
1,1,2-Trichloroethane	790-05	-	ug/L	Spring, Summer and Fall	
1,1,2-Trichlorotrifluoroethane	761-31	-	ug/L	Spring, Summer and Fall	
1,1-Dichloroethane	753-43	-	ug/L	Spring, Summer and Fall	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	-	ug/L	Spring, Summer and Fall	
1,1-Dichloropropene	563-58-6	-	ug/L	Spring, Summer and Fall	
1,2-(trans-) Dichloroethylene	156-60-5	-	ug/L	Spring, Summer and Fall	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Spring, Summer and Fall	
1,2,3-Trichloropropane	961-84	-	ug/L	Spring, Summer and Fall	
1,2,4-Trichlorobenzene	120-82-1	-	ug/L	Spring, Summer and Fall	
1,2,4-Trimethylbenzene	956-36	-	ug/L	Spring, Summer and Fall	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	-	ug/L	Spring, Summer and Fall	
1,2-Dichlorobenzene (ortho-)	955-01	-	ug/L	Spring, Summer and Fall	
1,2-Dichloroethane	107-06-2	-	ug/L	Spring, Summer and Fall	
1,2-Dichloroethylene (cis-)	156-59-2	-	ug/L	Spring, Summer and Fall	
1,2-Dichloropropane	788-75	-	ug/L	Spring, Summer and Fall	
1,3,5-Trimethylbenzene	108-67-8	-	ug/L	Spring, Summer and Fall	
1,3-Dichlorobenzene (meta-)	541-73-1	-	ug/L	Spring, Summer and Fall	
1,3-Dichloropropane	142-28-9	-	ug/L	Spring, Summer and Fall	
1,4-Dichlorobenzene (para-)	106-46-7	-	ug/L	Spring, Summer and Fall	
2,2-Dichloropropane	594-20-7	-	ug/L	Spring, Summer and Fall	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Spring, Summer and Fall	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Spring, Summer and Fall	
Acetone	676-41	-	ug/L	Spring, Summer and Fall	
Alkalinity, Total as CaCO3	T-0-05	-	mg/L	Spring, Summer and Fall	
Allyl chloride; (3 chloropropene)	107-05-1	-	ug/L	Spring, Summer and Fall	
Ammonia Nitrogen	766-44-17	-	mg/L	Spring, Summer and Fall	
Appearance	1	-	N/A	Spring, Summer and Fall	
Arsenic	744-03-82	-	ug/L	Spring, Summer and Fall	

Permit Issued:

Permit Expires:

# LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

LD-0 , LD-1 , LD-10 , LD-11 , LD-2 , LD-3 , LD-4 , LD-5 , LD-6 , LD-7 , LD-8 , LD-9

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Benzene	714-32	-	ug/L	Spring, Summer and Fall	
Bromobenzene	108-86-1	-	ug/L	Spring, Summer and Fall	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Spring, Summer and Fall	
Bromodichloromethane (Dichlorobromomethane)	752-74	-	ug/L	Spring, Summer and Fall	
Bromoform	752-52	-	ug/L	Spring, Summer and Fall	
Bromomethane (Methyl bromide)	748-39	-	ug/L	Spring, Summer and Fall	
Cadmium	744-04-39	-	ug/L	Spring, Summer and Fall	
Calcium	744-07-02	-	mg/L	Spring, Summer and Fall	
Carbon tetrachloride	562-35	-	ug/L	Spring, Summer and Fall	
Cation-Anion Balance	F84-1 -	-	%	Spring, Summer and Fall	
Chloride	168-87-006	-	mg/L	Spring, Summer and Fall	
Chlorobenzene; (monochlorobenzene)	108-90-7	-	ug/L	Spring, Summer and Fall	
Chlorodibromomethane;(Dibromochloromethane)	124-48-1	-	ug/L	Spring, Summer and Fall	
Chloroethane	750-03	-	ug/L	Spring, Summer and Fall	
Chloroform	676-63	-	ug/L	Spring, Summer and Fall	
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Spring, Summer and Fall	
Chromium	744-04-73	-	ug/L	Spring, Summer and Fall	
cis-1,3-Dichloropropene	100-61-015	-	ug/L	Spring, Summer and Fall	
Copper	744-05-08	-	ug/L	Spring, Summer and Fall	
Cumene; (Isopropylbenzene)	988-28	-	ug/L	Spring, Summer and Fall	
Dibromochloropropane; (DBCP)	961-28	-	ug/L	Spring, Summer and Fall	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Spring, Summer and Fall	
Dichlorodifluoromethane	757-18	-	ug/L	Spring, Summer and Fall	
Dichlorofluoromethane	754-34	-	ug/L	Spring, Summer and Fall	
Dichloromethane; (Methylene chloride)	750-92	-	ug/L	Spring, Summer and Fall	
Dissolved Oxygen, Field	T-1-05	-	mg/L	Spring, Summer and Fall	
Dissolved Solids, Total	C-0-10	-	mg/L	Spring, Summer and Fall	
Eh (Oxidation potential)	4	-	mV	Spring, Summer and Fall	Field and Lab.
Ethyl benzene	100-41-4	-	ug/L	Spring, Summer and Fall	
Ethyl ether	602-97	-	ug/L	Spring, Summer and Fall	
Hexachlorobutadiene	876-83	-	ug/L	Spring, Summer and Fall	

Permit Issued:

Permit Expires:

# LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

LD-0 , LD-1 , LD-10 , LD-11 , LD-2 , LD-3 , LD-4 , LD-5 , LD-6 , LD-7 , LD-8 , LD-9

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Iron	743-98-96	-	ug/L	Spring, Summer and Fall	
Lead	743-99-21	-	ug/L	Spring, Summer and Fall	
Magnesium	743-99-54	-	ug/L	Spring, Summer and Fall	
Manganese	743-99-65	-	ug/L	Spring, Summer and Fall	
Mercury	743-99-76	-	ug/L	Spring, Summer and Fall	
Methyl ethyl ketone (MEK)	789-33	-	ug/L	Spring, Summer and Fall	
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	-	ug/L	Spring, Summer and Fall	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	-	ug/L	Spring, Summer and Fall	
Naphthalene	912-03	-	ug/L	Spring, Summer and Fall	
n-Butyl Benzene	104-51-8	-	ug/L	Spring, Summer and Fall	
Nitrate + Nitrite	C-0-05	-	ug/L	Spring, Summer and Fall	
n-Propyl benzene	103-65-1	-	ug/L	Spring, Summer and Fall	
pH	C-0-06	-	SU	Spring, Summer and Fall	Field and Lab.
p-Isopropyltoluene	998-76	-	ug/L	Spring, Summer and Fall	
Potassium	744-00-97	-	ug/L	Spring, Summer and Fall	
sec-Butyl Benzene	135-98-8	-	ug/L	Spring, Summer and Fall	
Sodium	744-02-35	-	ug/L	Spring, Summer and Fall	
Specific Conductance	C-0-11	-	umho/cm	Spring, Summer and Fall	Field and Lab.
Styrene	100-42-5	-	ug/L	Spring, Summer and Fall	
Sulfate	148-08-798	-	mg/L	Spring, Summer and Fall	
Suspended Solids, Total	C-0-09	-	mg/L	Spring, Summer and Fall	
Temperature	T-1-21	-	Deg C	Spring, Summer and Fall	Field Only.
tert-Butyl Benzene	980-66	-	ug/L	Spring, Summer and Fall	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	-	ug/L	Spring, Summer and Fall	
Tetrahydrofuran	109-99-9	-	ug/L	Spring, Summer and Fall	
Toluene	108-88-3	-	ug/L	Spring, Summer and Fall	
Trichloroethylene; (TCE)	790-16	-	ug/L	Spring, Summer and Fall	
Trichlorofluoromethane	756-94	-	ug/L	Spring, Summer and Fall	
Turbidity, Field	G-0-19	-	NTU	Spring, Summer and Fall	
Vinyl chloride; (chloroethene)	750-14	-	ug/L	Spring, Summer and Fall	
Xylenes (mixture of o,m,p)	133-02-07	-	ug/L	Spring, Summer and Fall	

Permit Issued:

Permit Expires:

## LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

LD-0 , LD-1 , LD-10 , LD-11 , LD-2 , LD-3 , LD-4 , LD-5 , LD-6 , LD-7 , LD-8 , LD-9

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Zinc	744-06-66	-	ug/L	Spring, Summer and Fall	

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## LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

LFG-2A , LFG-2B , LFG-3A , LFG-3B , LFG-4A , LFG-4B

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
LEL	PCA-01-0	100.0	%	Quarterly	
Methane Gas	PCA-01-1	5.0	%	Quarterly	

Permit Issued:

Permit Expires:



## LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
LP-1 , LP-2 , LP-3 , LP-4 , P-11 , SLF-11B , SLF-3A

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Static Water Level (Elevation, MSL)	PCA-00-1	-	ft	Spring, Summer and Fall	

# LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

NSP-2A , SLF-14A , SLF-16A , SLF-19B , SLF-20A , SLF-22A , SLF-23A , SLF-5A

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	17.5	ug/L	Spring, Summer and Fall	
1,1,1-Trichloroethane	715-56	2,250.0	ug/L	Spring, Summer and Fall	
1,1,2,2-Tetrachloroethane	793-45	0.5	ug/L	Spring, Summer and Fall	
1,1,2-Trichloroethane	790-05	0.75	ug/L	Spring, Summer and Fall	
1,1,2-Trichlorotrifluoroethane	761-31	50,000.0	ug/L	Spring, Summer and Fall	
1,1-Dichloroethane	753-43	25.0	ug/L	Spring, Summer and Fall	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	50.0	ug/L	Spring, Summer and Fall	
1,1-Dichloropropene	563-58-6	-	ug/L	Spring, Summer and Fall	
1,2-(trans-) Dichloroethylene	156-60-5	10.0	ug/L	Spring, Summer and Fall	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Spring, Summer and Fall	
1,2,3-Trichloropropane	961-84	0.00075	ug/L	Spring, Summer and Fall	
1,2,4-Trichlorobenzene	120-82-1	1.0	ug/L	Spring, Summer and Fall	
1,2,4-Trimethylbenzene	956-36	25.0	ug/L	Spring, Summer and Fall	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	0.001	ug/L	Spring, Summer and Fall	
1,2-Dichlorobenzene (ortho-)	955-01	150.0	ug/L	Spring, Summer and Fall	
1,2-Dichloroethane	107-06-2	0.25	ug/L	Spring, Summer and Fall	
1,2-Dichloroethylene (cis-)	156-59-2	12.5	ug/L	Spring, Summer and Fall	
1,2-Dichloropropane	788-75	1.25	ug/L	Spring, Summer and Fall	
1,3,5-Trimethylbenzene	108-67-8	25.0	ug/L	Spring, Summer and Fall	
1,3-Dichlorobenzene (meta-)	541-73-1	150.0	ug/L	Spring, Summer and Fall	
1,3-Dichloropropane	142-28-9	-	ug/L	Spring, Summer and Fall	
1,4-Dichlorobenzene (para-)	106-46-7	2.5	ug/L	Spring, Summer and Fall	
2,2-Dichloropropane	594-20-7	-	ug/L	Spring, Summer and Fall	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Spring, Summer and Fall	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Spring, Summer and Fall	
Acetone	676-41	1,000.0	ug/L	Spring, Summer and Fall	
Alkalinity, Total as CaCO3	T-0-05	-	mg/L	Summer	
Allyl chloride; (3 chloropropene)	107-05-1	7.5	ug/L	Spring, Summer and Fall	
Ammonia Nitrogen	766-44-17	-	mg/L	Summer	
Anion Summation	F92-1 -	-	meq/L	Summer	
Appearance	1	-	N/A	Spring, Summer and Fall	

Permit Issued:

Permit Expires:

# LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

NSP-2A , SLF-14A , SLF-16A , SLF-19B , SLF-20A , SLF-22A , SLF-23A , SLF-5A

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Arsenic	744-03-82	2.5	ug/L	Summer	
Benzene	714-32	0.5	ug/L	Spring, Summer and Fall	
Bromobenzene	108-86-1	-	ug/L	Spring, Summer and Fall	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Spring, Summer and Fall	
Bromodichloromethane (Dichlorobromomethane)	752-74	1.5	ug/L	Spring, Summer and Fall	
Bromoform	752-52	10.0	ug/L	Spring, Summer and Fall	
Bromomethane (Methyl bromide)	748-39	2.5	ug/L	Spring, Summer and Fall	
Cadmium	744-04-39	1.0	ug/L	Summer	
Calcium	744-07-02	-	mg/L	Summer	
Carbon tetrachloride	562-35	0.25	ug/L	Spring, Summer and Fall	
Cation Summation	F91-1 -	-	meq/L	Summer	
Cation-Anion Balance	F84-1 -	-	%	Summer	
Chloride	168-87-006	-	mg/L	Summer	
Chlorobenzene; (monochlorobenzene)	108-90-7	25.0	ug/L	Spring, Summer and Fall	
Chlorodibromomethane;(Dibromochloromethane)	124-48-1	2.5	ug/L	Spring, Summer and Fall	
Chloroethane	750-03	-	ug/L	Spring, Summer and Fall	
Chloroform	676-63	7.5	ug/L	Spring, Summer and Fall	
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Spring, Summer and Fall	
Chromium	744-04-73	25.0	ug/L	Summer	
cis-1,3-Dichloropropene	100-61-015	-	ug/L	Spring, Summer and Fall	
Copper	744-05-08	-	ug/L	Summer	
Cumene; (Isopropylbenzene)	988-28	75.0	ug/L	Spring, Summer and Fall	
Dibromochloropropane; (DBCP)	961-28	0.05	ug/L	Spring, Summer and Fall	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Spring, Summer and Fall	
Dichlorodifluoromethane	757-18	175.0	ug/L	Spring, Summer and Fall	
Dichlorofluoromethane	754-34	-	ug/L	Spring, Summer and Fall	
Dichloromethane; (Methylene chloride)	750-92	1.25	ug/L	Spring, Summer and Fall	
Dissolved Oxygen, Field	T-1-05	-	mg/L	Spring, Summer and Fall	Field Only.
Dissolved Solids, Total	C-0-10	-	mg/L	Summer	
Eh (Oxidation potential)	4	-	mV	Spring, Summer and Fall	Field and Lab.
Ethyl benzene	100-41-4	12.5	ug/L	Spring, Summer and Fall	

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Permit Expires:

# LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

NSP-2A , SLF-14A , SLF-16A , SLF-19B , SLF-20A , SLF-22A , SLF-23A , SLF-5A

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Ethyl ether	602-97	50.0	ug/L	Spring, Summer and Fall	
Hexachlorobutadiene	876-83	0.25	ug/L	Spring, Summer and Fall	
Iron	743-98-96	-	ug/L	Summer	
Lead	743-99-21	-	ug/L	Summer	
Magnesium	743-99-54	-	ug/L	Summer	
Manganese	743-99-65	75.0	ug/L	Summer	
Mercury	743-99-76	0.5	ug/L	Summer	
Methyl ethyl ketone (MEK)	789-33	1,000.0	ug/L	Spring, Summer and Fall	
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	75.0	ug/L	Spring, Summer and Fall	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	-	ug/L	Spring, Summer and Fall	
Naphthalene	912-03	17.5	ug/L	Spring, Summer and Fall	
n-Butyl Benzene	104-51-8	-	ug/L	Spring, Summer and Fall	
Nitrate + Nitrite	C-0-05	2,500.0	ug/L	Summer	
n-Propyl benzene	103-65-1	-	ug/L	Spring, Summer and Fall	
pH	C-0-06	-	SU	Spring, Summer and Fall	Field and Lab.
p-Isopropyltoluene	998-76	-	ug/L	Spring, Summer and Fall	
Potassium	744-00-97	-	ug/L	Summer	
sec-Butyl Benzene	135-98-8	-	ug/L	Spring, Summer and Fall	
Sodium	744-02-35	-	ug/L	Summer	
Specific Conductance	C-0-11	-	umho/cm	Spring, Summer and Fall	Field and Lab.
Static Water Level (Elevation, MSL)	PCA-00-1	-	ft	Spring, Summer and Fall	
Styrene	100-42-5	25.0	ug/L	Spring, Summer and Fall	
Sulfate	148-08-798	-	mg/L	Summer	
Suspended Solids, Total	C-0-09	-	mg/L	Summer	
Temperature	T-1-21	-	Deg C	Spring, Summer and Fall	Field Only.
tert-Butyl Benzene	980-66	-	ug/L	Spring, Summer and Fall	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	1.25	ug/L	Spring, Summer and Fall	
Tetrahydrofuran	109-99-9	25.0	ug/L	Spring, Summer and Fall	
Toluene	108-88-3	50.0	ug/L	Spring, Summer and Fall	
Trichloroethylene; (TCE)	790-16	1.25	ug/L	Spring, Summer and Fall	
Trichlorofluoromethane	756-94	500.0	ug/L	Spring, Summer and Fall	

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## LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

NSP-2A , SLF-14A , SLF-16A , SLF-19B , SLF-20A , SLF-22A , SLF-23A , SLF-5A

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Turbidity, Field	G-0-19	-	NTU	Spring, Summer and Fall	Field Only.
Vinyl chloride; (chloroethene)	750-14	0.05	ug/L	Spring, Summer and Fall	
Xylenes (mixture of o,m,p)	133-02-07	75.0	ug/L	Spring, Summer and Fall	
Zinc	744-06-66	500.0	ug/L	Summer	

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## LIMITS TABLE

Comments:

Report Date: 02/01/2013

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Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
Sedimentation Basin

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Boron	744-04-28	250.0	ug/L	Spring, Summer and Fall	
Manganese	743-99-65	75.0	ug/L	Spring, Summer and Fall	
Specific Conductance	C-0-11	-	umho/cm	Summer	

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Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

Shop

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
LEL	PCA-01-0	25.0	%	Quarterly	Continuous methane meter alarm at 2% of LEL.
Methane Gas	PCA-01-1	1.25	%	Quarterly	Continuous readings.

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# LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

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Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

SLF-15A , SLF-17A

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	-	ug/L	Summer	
1,1,1-Trichloroethane	715-56	2,628.0	ug/L	Summer	
1,1,2,2-Tetrachloroethane	793-45	1,126.5	ug/L	Summer	
1,1,2-Trichloroethane	790-05	-	ug/L	Summer	
1,1,2-Trichlorotrifluoroethane	761-31	-	ug/L	Summer	
1,1-Dichloroethane	753-43	-	ug/L	Summer	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	-	ug/L	Summer	
1,1-Dichloropropene	563-58-6	-	ug/L	Summer	
1,2-(trans-) Dichloroethylene	156-60-5	-	ug/L	Summer	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Summer	
1,2,3-Trichloropropane	961-84	-	ug/L	Summer	
1,2,4-Trichlorobenzene	120-82-1	-	ug/L	Summer	
1,2,4-Trimethylbenzene	956-36	-	ug/L	Summer	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	-	ug/L	Summer	
1,2-Dichlorobenzene (orth-)	955-01	-	ug/L	Summer	
1,2-Dichloroethane	107-06-2	45,050.0	ug/L	Summer	
1,2-Dichloroethylene (cis-)	156-59-2	-	ug/L	Summer	
1,2-Dichloropropane	788-75	-	ug/L	Summer	
1,3,5-Trimethylbenzene	108-67-8	-	ug/L	Summer	
1,3-Dichlorobenzene (meta-)	541-73-1	-	ug/L	Summer	
1,3-Dichloropropane	142-28-9	-	ug/L	Summer	
1,4-Dichlorobenzene (para-)	106-46-7	-	ug/L	Summer	
2,2-Dichloropropane	594-20-7	-	ug/L	Summer	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Summer	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Summer	
Acetone	676-41	-	ug/L	Summer	
Alkalinity, Total as CaCO3	T-0-05	-	mg/L	Summer	
Allyl chloride; (3 chloropropene)	107-05-1	-	ug/L	Summer	
Ammonia Nitrogen	766-44-17	0.5	mg/L	Summer	
Anion Summation	F92-1 -	-	mg/L	Summer	
Appearance	1	-	N/A	Summer	

Permit Issued:

Permit Expires:



# LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

SLF-15A , SLF-17A

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Arsenic	744-03-82	360.0	ug/L	Summer	
Benzene	714-32	4,487.0	ug/L	Summer	
Boron	744-04-28	-	ug/L	Summer	
Bromobenzene	108-86-1	-	ug/L	Summer	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Summer	
Bromodichloromethane (Dichlorobromomethane)	752-74	-	ug/L	Summer	
Bromoform	752-52	2,900.0	ug/L	Summer	
Bromomethane (Methyl bromide)	748-39	-	ug/L	Summer	
Cadmium	744-04-39	159.5	ug/L	Summer	
Calcium	744-07-02	-	mg/L	Summer	
Carbon tetrachloride	562-35	590.0	ug/L	Summer	
Cation Summation	F91-1 -	-	mg/L	Summer	
Cation-Anion Balance	F84-1 -	-	%	Summer	
Chemical Oxygen Demand (COD)	C-0-04	-	mg/L	Summer	
Chloride	168-87-006	860.0	mg/L	Summer	
Chlorobenzene; (monochlorobenzene)	108-90-7	423.0	ug/L	Summer	
Chlorodibromomethane;(Dibromochloromethane)	124-48-1	-	ug/L	Summer	
Chloroethane	750-03	-	ug/L	Summer	
Chloroform	676-63	1,392.0	ug/L	Summer	
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Summer	
Chromium	744-04-73	5,398.5	ug/L	Summer	
cis-1,3-Dichloropropene	100-61-015	-	ug/L	Summer	
Copper	744-05-08	65.5	ug/L	Summer	
Cumene; (Isopropylbenzene)	988-28	-	ug/L	Summer	
Dibromochloropropane; (DBCP)	961-28	-	ug/L	Summer	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Summer	
Dichlorodifluoromethane	757-18	-	ug/L	Summer	
Dichlorofluoromethane	754-34	-	ug/L	Summer	
Dichloromethane; (Methylene chloride)	750-92	13,874.5	ug/L	Summer	
Dissolved Oxygen, Field	T-1-05	-	mg/L	Summer	Field Only
Dissolved Solids, Total	C-0-10	-	mg/L	Summer	

Permit Issued:

Permit Expires:

# LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

SLF-15A , SLF-17A

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Eh (Oxidation potential)	4	-	mV	Summer	Field and Lab.
Ethyl benzene	100-41-4	1,858.5	ug/L	Summer	
Ethyl ether	602-97	-	ug/L	Summer	
Hexachlorobutadiene	876-83	-	ug/L	Summer	
Iron	743-98-96	2,800.0	ug/L	Summer	
Lead	743-99-21	478.0	ug/L	Summer	
Magnesium	743-99-54	-	ug/L	Summer	
Manganese	743-99-65	4,600.0	ug/L	Summer	
Mercury	743-99-76	0.69	ug/L	Summer	
Methyl ethyl ketone (MEK)	789-33	-	ug/L	Summer	
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	-	ug/L	Summer	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	-	ug/L	Summer	
Naphthalene	912-03	409.0	ug/L	Summer	
n-Butyl Benzene	104-51-8	-	ug/L	Summer	
Nickel	744-00-20	4,582.0	ug/L	Summer	
Nitrate + Nitrite	C-0-05	2,500.0	ug/L	Summer	
n-Propyl benzene	103-65-1	-	ug/L	Summer	
pH	C-0-06	-	SU	Summer	Field and Lab.
p-Isopropyltoluene	998-76	-	ug/L	Summer	
Potassium	744-00-97	-	ug/L	Summer	
sec-Butyl Benzene	135-98-8	-	ug/L	Summer	
Sodium	744-02-35	-	ug/L	Summer	
Specific Conductance	C-0-11	-	umho/cm	Summer	Field and Lab.
Static Water Level (Elevation, MSL)	PCA-00-1	-	ft	Spring, Summer and Fall	
Styrene	100-42-5	-	ug/L	Summer	
Sulfate	148-08-798	-	mg/L	Summer	
Suspended Solids, Total	C-0-09	-	mg/L	Summer	
Temperature	T-1-21	-	Deg C	Summer	Field Only.
tert-Butyl Benzene	980-66	-	ug/L	Summer	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	428.5	ug/L	Summer	
Tetrahydrofuran	109-99-9	-	ug/L	Summer	

Permit Issued:

Permit Expires:

## LIMITS TABLE

Comments:

Report Date: 02/01/2013  
 Facility: Ponderosa Sanitary Landfill  
 Permit: SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21  
 Summer: Jun-21 to Jul-31  
 Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:  
 SLF-15A , SLF-17A

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Toluene	108-88-3	1,351.5	ug/L	Summer	
Trichloroethylene; (TCE)	790-16	6,988.0	ug/L	Summer	
Trichlorofluoromethane	756-94	-	ug/L	Summer	
Turbidity, Field	G-0-19	-	NTU	Summer	Field Only.
Vinyl chloride; (chloroethene)	750-14	-	ug/L	Summer	
Xylenes (mixture of o,m,p)	133-02-07	1,407.0	ug/L	Summer	
Zinc	744-06-66	379.0	ug/L	Summer	

# LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

SLF-4A , SLF-4B , SLF-7A , SLF-7B , SLF-8A

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	-	ug/L	Spring, Summer and Fall	
1,1,1-Trichloroethane	715-56	2,956.5	ug/L	Spring, Summer and Fall	
1,1,2,2-Tetrachloroethane	793-45	1,126.5	ug/L	Spring, Summer and Fall	
1,1,2-Trichloroethane	790-05	-	ug/L	Spring, Summer and Fall	
1,1,2-Trichlorotrifluoroethane	761-31	-	ug/L	Spring, Summer and Fall	
1,1-Dichloroethane	753-43	-	ug/L	Spring, Summer and Fall	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	-	ug/L	Spring, Summer and Fall	
1,1-Dichloropropene	563-58-6	-	ug/L	Spring, Summer and Fall	
1,2-(trans-) Dichloroethylene	156-60-5	-	ug/L	Spring, Summer and Fall	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Spring, Summer and Fall	
1,2,3-Trichloropropane	961-84	-	ug/L	Spring, Summer and Fall	
1,2,4-Trichlorobenzene	120-82-1	-	ug/L	Spring, Summer and Fall	
1,2,4-Trimethylbenzene	956-36	-	ug/L	Spring, Summer and Fall	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	-	ug/L	Spring, Summer and Fall	
1,2-Dichlorobenzene (orth-)	955-01	-	ug/L	Spring, Summer and Fall	
1,2-Dichloroethane	107-06-2	45,050.0	ug/L	Spring, Summer and Fall	
1,2-Dichloroethylene (cis-)	156-59-2	-	ug/L	Spring, Summer and Fall	
1,2-Dichloropropane	788-75	-	ug/L	Spring, Summer and Fall	
1,3,5-Trimethylbenzene	108-67-8	-	ug/L	Spring, Summer and Fall	
1,3-Dichlorobenzene (meta-)	541-73-1	-	ug/L	Spring, Summer and Fall	
1,3-Dichloropropane	142-28-9	-	ug/L	Spring, Summer and Fall	
1,4-Dichlorobenzene (para-)	106-46-7	-	ug/L	Spring, Summer and Fall	
2,2-Dichloropropane	594-20-7	-	ug/L	Spring, Summer and Fall	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Spring, Summer and Fall	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Spring, Summer and Fall	
Acetone	676-41	-	ug/L	Spring, Summer and Fall	
Alkalinity, Total as CaCO3	T-0-05	-	mg/L	Summer	
Allyl chloride; (3 chloropropene)	107-05-1	-	ug/L	Spring, Summer and Fall	
Ammonia Nitrogen	766-44-17	0.5	mg/L	Summer	
Appearance	1	-	N/A	Summer	
Arsenic	744-03-82	360.0	ug/L	Summer	

Permit Issued:

Permit Expires:

# LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

SLF-4A , SLF-4B , SLF-7A , SLF-7B , SLF-8A

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Benzene	714-32	4,487.0	ug/L	Spring, Summer and Fall	
Bromobenzene	108-86-1	-	ug/L	Spring, Summer and Fall	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Spring, Summer and Fall	
Bromodichloromethane (Dichlorobromomethane)	752-74	-	ug/L	Spring, Summer and Fall	
Bromoform	752-52	2,900.0	ug/L	Spring, Summer and Fall	
Bromomethane (Methyl bromide)	748-39	-	ug/L	Spring, Summer and Fall	
Cadmium	744-04-39	159.5	ug/L	Summer	
Calcium	744-07-02	-	mg/L	Summer	
Carbon tetrachloride	562-35	590.0	ug/L	Spring, Summer and Fall	
Cation-Anion Balance	F84-1 -	-	%	Summer	
Chloride	168-87-006	860.0	mg/L	Summer	
Chlorobenzene; (monochlorobenzene)	108-90-7	423.0	ug/L	Spring, Summer and Fall	
Chlorodibromomethane;(Dibromochloromethane)	124-48-1	-	ug/L	Spring, Summer and Fall	
Chloroethane	750-03	-	ug/L	Spring, Summer and Fall	
Chloroform	676-63	1,392.0	ug/L	Spring, Summer and Fall	
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Spring, Summer and Fall	
Chromium	744-04-73	5,398.5	ug/L	Summer	
cis-1,3-Dichloropropene	100-61-015	-	ug/L	Spring, Summer and Fall	
Copper	744-05-08	65.5	ug/L	Summer	
Cumene; (Isopropylbenzene)	988-28	-	ug/L	Spring, Summer and Fall	
Dibromochloropropane; (DBCP)	961-28	-	ug/L	Spring, Summer and Fall	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Spring, Summer and Fall	
Dichlorodifluoromethane	757-18	-	ug/L	Spring, Summer and Fall	
Dichlorofluoromethane	754-34	-	ug/L	Spring, Summer and Fall	
Dichloromethane; (Methylene chloride)	750-92	13,874.5	ug/L	Spring, Summer and Fall	
Dissolved Oxygen, Field	T-1-05	-	mg/L	Spring, Summer and Fall	Field Only.
Dissolved Solids, Total	C-0-10	-	mg/L	Summer	
Eh (Oxidation potential)	4	-	mV	Spring, Summer and Fall	Field and Lab.
Ethyl benzene	100-41-4	1,858.5	ug/L	Spring, Summer and Fall	
Ethyl ether	602-97	-	ug/L	Spring, Summer and Fall	
Hexachlorobutadiene	876-83	-	ug/L	Spring, Summer and Fall	

Permit Issued:

Permit Expires:

# LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

SLF-4A , SLF-4B , SLF-7A , SLF-7B , SLF-8A

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Iron	743-98-96	-	ug/L	Summer	
Lead	743-99-21	478.0	ug/L	Spring, Summer and Fall	
Magnesium	743-99-54	-	ug/L	Summer	
Manganese	743-99-65	4,600.0	ug/L	Summer	
Mercury	743-99-76	0.69	ug/L	Summer	
Methyl ethyl ketone (MEK)	789-33	-	ug/L	Spring, Summer and Fall	
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	-	ug/L	Spring, Summer and Fall	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	-	ug/L	Spring, Summer and Fall	
Naphthalene	912-03	409.0	ug/L	Spring, Summer and Fall	
n-Butyl Benzene	104-51-8	-	ug/L	Spring, Summer and Fall	
Nitrate + Nitrite	C-0-05	2,500.0	ug/L	Summer	
n-Propyl benzene	103-65-1	-	ug/L	Spring, Summer and Fall	
pH	C-0-06	-	SU	Spring, Summer and Fall	Field and Lab.
p-Isopropyltoluene	998-76	-	ug/L	Spring, Summer and Fall	
Potassium	744-00-97	-	ug/L	Summer	
sec-Butyl Benzene	135-98-8	-	ug/L	Spring, Summer and Fall	
Sodium	744-02-35	-	ug/L	Summer	
Specific Conductance	C-0-11	-	umho/cm	Spring, Summer and Fall	Field and Lab.
Static Water Level (Elevation, MSL)	PCA-00-1	-	ft	Spring, Summer and Fall	
Styrene	100-42-5	-	ug/L	Spring, Summer and Fall	
Sulfate	148-08-798	-	mg/L	Summer	
Suspended Solids, Total	C-0-09	-	mg/L	Summer	
Temperature	T-1-21	-	Deg C	Spring, Summer and Fall	Field Only.
tert-Butyl Benzene	980-66	-	ug/L	Spring, Summer and Fall	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	428.5	ug/L	Spring, Summer and Fall	
Tetrahydrofuran	109-99-9	-	ug/L	Spring, Summer and Fall	
Toluene	108-88-3	1,351.5	ug/L	Spring, Summer and Fall	
Trichloroethylene; (TCE)	790-16	6,988.0	ug/L	Spring, Summer and Fall	
Trichlorofluoromethane	756-94	-	ug/L	Spring, Summer and Fall	
Turbidity, Field	G-0-19	-	NTU	Spring, Summer and Fall	Field Only.
Vinyl chloride; (chloroethene)	750-14	-	ug/L	Spring, Summer and Fall	

Permit Issued:

Permit Expires:

## LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

SLF-4A , SLF-4B , SLF-7A , SLF-7B , SLF-8A

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Xylenes (mixture of o,m,p)	133-02-07	1,407.0	ug/L	Spring, Summer and Fall	
Zinc	744-06-66	379.0	ug/L	Summer	

Permit Issued:

Permit Expires:

# LIMITS TABLE

Comments:

Report Date: 02/01/2013

Facility: Ponderosa Sanitary Landfill

Permit SW-87

Standard Landfill Monitoring Periods:

Spring: Mar-14 to Apr-21

Summer: Jun-21 to Jul-31

Fall: Oct-21 to Nov-21

**DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT**

This Limits Table applies to the following stations:

SW-1 , SW-3

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Alkalinity, Total as CaCO3	T-0-05	-	mg/L	Summer	
Ammonia Nitrogen	766-44-17	0.5	mg/L	Summer	
Appearance	1	-	N/A	Summer	
Arsenic	744-03-82	360.0	ug/L	Summer	
Cadmium	744-04-39	159.5	ug/L	Summer	
Calcium	744-07-02	-	mg/L	Summer	
Cation-Anion Balance	F84-1 -	-	%	Summer	
Chloride	168-87-006	860.0	mg/L	Summer	
Chromium	744-04-73	5,398.5	ug/L	Summer	
Copper	744-05-08	65.5	ug/L	Summer	
Dissolved Oxygen, Field	T-1-05	-	mg/L	Summer	Field Only.
Dissolved Solids, Total	C-0-10	-	mg/L	Summer	
Eh (Oxidation potential)	4	-	mV	Summer	Field and Lab.
Iron	743-98-96	1,400.0	ug/L	Summer	
Lead	743-99-21	478.0	ug/L	Summer	
Magnesium	743-99-54	-	ug/L	Summer	
Manganese	743-99-65	2,300.0	ug/L	Summer	
Mercury	743-99-76	0.69	ug/L	Summer	
Nitrate + Nitrite	C-0-05	2,500.0	ug/L	Summer	
pH	C-0-06	-	SU	Summer	Field and Lab
Potassium	744-00-97	-	ug/L	Summer	
Sodium	744-02-35	-	ug/L	Summer	
Specific Conductance	C-0-11	-	umho/cm	Summer	Field and Lab.
Static Water Level (Elevation, MSL)	PCA-00-1	-	ft	Spring, Summer and Fall	
Sulfate	148-08-798	-	mg/L	Summer	
Suspended Solids, Total	C-0-09	-	mg/L	Summer	
Temperature	T-1-21	-	Deg C	Summer	Field Only.
Turbidity, Field	G-0-19	-	NTU	Summer	Field Only.
Zinc	744-06-66	379.0	ug/L	Summer	

Permit Issued:

Permit Expires: