



Minnesota Pollution Control Agency

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Solid Waste Management Facility Permit

Permit: SW-210

Grand Rapids Sludge Facility

Action: PER007

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 listed on the following page to construct and operate the Grand Rapids Sludge Facility, SW-210 under the conditions set forth in this permit.

The facility consists of 63 acres located in: N ½ of NE ¼ of Section 3, Township 54 N, Range 25 W, and SE ¼ of SW ¼ of Section 34, Township 55N, Range 25 W, Section 22, Itasca County, in the MPCA Duluth Region. The facility includes the following waste activity area(s):

Industrial Waste Disposal Area

IL001

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: _____

Permit Modified Date: _____

Minnesota Pollution Control Agency

Ainars Z. Silis

Supervisor, Land Permits Unit

Land & Air Compliance Section

Industrial Division

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Solid Waste Management Facility Permit

Permit: SW-210

Grand Rapids Sludge Facility

Action: PER007

The following permittee is authorized to construct and operate the Grand Rapids Sludge Facility, SW-210 under the conditions set forth in this permit.

Permittee Activity Owner, Landowner, and Operator:

Grand Rapids Public Utilities Commission

Address:

500 SE 4th Street

PO Box 658

Grand Rapids, MN 55744

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1. TOTAL FACILITY

1.1 General

1.1.1 Definitions

- 1.1.2 "Airspace" means the volume for filling with waste, considering all solid waste, daily, intermediate, intermittent and final cover materials, and design restrictions.
- 1.1.3 "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.
- 1.1.4 "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.
- 1.1.5 "Facility" has the meaning given in Minn. R. 7035.0300, subp. 37.
- 1.1.6 "Permitted Capacity" means the total airspace volume in cubic yards (cy) 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 five-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.
- 1.1.7 "Permittee" means the landowner, facility owner(s), and facility operator(s).
- 1.1.8 "Waste Activity" means the storage, processing, transfer, utilization, treatment, or disposal of solid waste and waste by-products.
- 1.1.9 "Waste Activity Area" means the land, structures, monitoring devices, and other appurtenances and improvements on the land associated with a waste activity.

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TOTAL FACILITY

General

1.1.10 Waste Activities

1.1.11 The facility waste activities authorized by this permit are limited to those activities described in the Waste Capacity Table of this permit. The specific industrial solid wastes approved by this permit for disposal at the facility are listed below:

- > Primary sludge generated at the city of Grand Rapids Primary Wastewater Treatment Facility which treats UPM-Blandin Paper Company (UPM-BPC) wastewater only.
- > Secondary waste activated sludge generated at the city of Grand Rapids Secondary Wastewater Treatment Facility which treats primary industrial effluent and domestic wastewater from the city of Grand Rapids.
- > Solids from sewer cleaning operations generated by the city of Grand Rapids.
- > Wood and coal ash generated by Minnesota Power at the Blandin Powerhouse in an amount not to exceed 10,000 tons per year.
- > Wood yard scrapings from UPM-BPC.

The Grand Rapids Wastewater Treatment Facility's primary sludge and the secondary waste activated sludge are combined prior to dewatering of the sludge and prior to landfilling. The average solids content of the combined sludge is 38%.

1.1.12 Permit Compliance

1.1.13 The permittee shall keep the status of the permit current and up-to-date.

1.1.14 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.

1.1.15 Location

1.1.16 The Facility encompasses approximately 63 acres and is located in the N ½ of NE ¼ of Section 3, Township 54 N, Range 25 W, and SE ¼ of SW ¼ of Section 34, Township 55N, Range 25 W, Section 22, Itasca County, in Minnesota.

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TOTAL FACILITY

General

1.1.17 Facility History

- 1.1.18 The original landfill disposal area was approximately five (5) acres in size and opened in 1967 and closed in 1981. From 1981 to 1994, waste was deposited in low lying areas referred to as kettles which comprised approximately 33 acres. In 1994, the permittee constructed a liner and leachate collection system in the area referred to as Kettle D and closed the last remaining unlined kettles in 1999.

The city of Grand Rapids was issued an MPCA solid waste permit, SW-210, in August 1995. This original permit granted disposal capacity for Kettle D and Phases 1-4. Permit SW-210 was reissued in 2001 and 2006 and granted additional disposal capacity for Phases 5-8. The closure of Kettle D and Phases 1-4 was completed in 2009. With the reissuance of this permit, Phases 5-8 are constructed and open and operating.

1.1.19 General Facility Description

- 1.1.20 The facility authorized by this permit is an Industrial Solid Waste Disposal Facility. The industrial waste fill area occupies approximately 53 acres.

Based on a survey conducted on December 7, 2011, Phases 5-8 had a remaining disposal capacity of approximately 914,149 cy of in-place waste, including all required cover soils (intermittent, intermediate, and final). This permit authorizes a permitted capacity in Phases 5-8 consisting of 1,350,722 cy including all required cover soils (intermittent, intermediate and final). The design capacity for the industrial waste fill area includes the closed areas and Phases 5-8 and is 4,218,022 cy. This area is designated as Waste Activity IL001.

1.1.21 Required Notices

- 1.1.22 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

- 1.2.2 The approved plans and engineering documents are incorporated into this permit. In addition, once approved by the commissioner, the permittee shall comply with all submittals that are submitted in accordance with the terms of this permit. In all cases where the permit and the plans or submittals 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 dated May 2012.

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Permit Documents

1.2.5 Engineering Documents

- 1.2.6 The engineering documents approved by this permit include, but are not limited to:
1. Design Report, dated May 2012;
 2. Operations and Maintenance Plan, dated May 2012;
 3. Closure, Post-closure, Contingency Action Plan and Financial Assurance, dated May 2012;
 4. Industrial Solid Waste Management Plan, dated May 2012;
 5. Construction Quality Assurance Manual, dated May 2012;
 6. Technical Specifications, dated May 2012; and
 7. Permit Drawings, dated May 16, 2012.

1.2.7 Hydrogeologic Evaluation Documents

- 1.2.8 The hydrogeologic evaluation documents approved by this permit include:
1. Phase I Preliminary Investigation Report and Phase II Detailed Site Investigation Work Plan prepared by RCM, Inc., dated October 1992.
 2. Phase II Detailed Site Investigation Report and Phase III Water Monitoring System Work Plan prepared by RCM, Inc., dated June 1993.
 3. Addendum Phase II Hydrogeologic Evaluation Report prepared by Braun Intertec Corporation, dated August 8, 1994.
 4. Phase II/III Hydrogeologic Evaluation Report and Phase IV Water Quality Monitoring Plan prepared by Braun Intertec Corporation, dated January 27, 1995.
 5. Groundwater Quality Evaluation prepared by Braun Intertec Corporation, dated May 10, 1995.
 6. Revised Addendum Phase IV Water Quality Monitoring Work Plan prepared by Braun Intertec Corporation, dated August 2, 1995.
- 1.2.9
7. Phase IV Water Quality Monitoring Report prepared by Braun Intertec Corporation, dated February 1, 1996.
 8. Phase II Work Plan prepared by NTS, Inc., dated June 1998.
 9. Phase II Hydrogeologic Investigation Report prepared by NTS, Inc., dated February 2000.
 10. NTS, Inc. letter, dated March 29, 2000, in response to MPCA staff comments on the Phase II Hydrogeologic Investigation Report.
 11. Revised Phase IV Water Quality Monitoring Work Plan and Water Quality Monitoring Protocol prepared by NTS, Inc., dated July 2000.
 12. Surface Water Sampling Plan for Kettle C and Surface Water Retention Pond prepared by SEH Inc., dated November 2000.
 13. Phase IV Water Quality Monitoring Work Plan Addendum prepared by NTS, Inc., dated December 2000.

1.2.10 Revised Plans

- 1.2.11 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.

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TOTAL 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

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.

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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, 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 manage the facility to be in compliance with Minn. R. 7011.0150 to prevent particulate matter from becoming airborne.

1.4.15 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.

1.4.16 Collection and Transportation of Solid Waste

1.4.17 The permittee must provide for the proper collection and transportation of solid waste in accordance with Minn. R. 7035.0800.

1.4.18 Unacceptable Wastes

1.4.19 The permittee must not accept the wastes identified in Minn. R. 7035.2535, subp. 1 for treatment, storage, processing, or disposal.

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Operating and Maintenance Criteria

1.4.20 Industrial Solid Waste

- 1.4.21 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.

1.4.22 Stormwater Management System

- 1.4.23 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 NPDES/SDS Permit for the discharge of stormwater associated with an industrial activity and/or a construction activity.

1.4.24 Groundwater Quality, Surface Water Quality, Air Quality, and Soil Protection

- 1.4.25 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.

1.4.26 Emergency Equipment

- 1.4.27 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.

1.4.28 Operating Record

- 1.4.29 The permittee must keep a written operating record at the facility in accordance with Minn. R. 7035.2575.

1.4.30 Self Inspections

- 1.4.31 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 (5) years.

1.4.32 Emergency Procedures Manual

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

1.4.34 Contingency Action Plan

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

1.4.36 Closure Plan

- 1.4.37 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.

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Operating and Maintenance Criteria

1.4.38 Postclosure Plan

- 1.4.39 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 Electronic Data Reporting

- 1.5.4 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.
- 1.5.5 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.

1.5.6 Monitoring Station Location Information

- 1.5.7 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.
- 1.5.8 Existing monitoring stations that are physically modified to an extent where the current location and elevation data on record with the MPCA are no longer correct must be re-surveyed and submitted to the MPCA. Methods for collecting this information must follow the most recently approved work plan. Location data must be submitted in an approved coordinate system and the datum used must be identified.

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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.
- 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 (2) 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.

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TOTAL FACILITY

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

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.

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General Conditions

1.10.11 Operation and Maintenance

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.

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General Conditions

1.10.21 Notification of Noncompliance Involving an Imminent Threat

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.

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General Conditions

1.10.35 Extensions

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.

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2. INDUSTRIAL WASTE DISPOSAL AREA IL 001

2.1 Design and Construction Criteria

2.1.1 Construction Requirements

- 2.1.2 The permittee must construct or install the phases, cells, liners, leachate management system, gas management system and water monitoring system of the industrial landfill in accordance with the approved plans and specifications.

2.1.3 Design Requirements

- 2.1.4 The permittee must design any proposed future expansions or modifications of the disposal area in accordance with the design requirements as specified in the approved plans.
- 2.1.5 The permittee shall submit an engineering report by June 30, 2014, with the results of the hydraulic conductivity analysis of the sludge and an evaluation of whether the sludge is suitable for continued use as a barrier layer in the final cover system based on these results. This report shall also provide the basis for a 65 pound per cubic foot compaction specification and for the proposed lift placement thickness of 2 to 4 feet. In addition, the report shall include a revised Detail 5 on Plan Sheet 9 of the Permit Application that has a physical connection between the sand drainage layer of the final cover system and the liner system through use of the coarse aggregate shown on the Detail.

2.1.6 Prohibited Areas

- 2.1.7 The disposal of industrial solid waste is prohibited within the areas outlined in Minn. R. 7035.1600. The Federal Aviation Administration (FAA) has made the determination that this facility is "not incompatible" with the Grand Rapids - Itasca County Airport in a letter dated April 12, 2000, signed by Mr. Michael Pinkley, Airports Program Analyst for the Airports District Office located in Minneapolis, Minnesota.

2.1.8 Permit Application and Required Plans

- 2.1.9 Plans, including a permit application, report, and drawings must be prepared by a registered engineer of Minnesota. The submitted plans must include those outlined in Minn. R. 7035.1800.

2.1.10 Location of Disposal Area

- 2.1.11 The disposal area must be located in accordance with Minn. R. 7035.2555 and Minn. R. 7035.2815, subp. 2.

2.1.12 Cover System Design Requirements

- 2.1.13 At a minimum, all major design features must incorporate the construction requirements of Minn. R. 7035.2815, subp. 12. into the project specifications.

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INDUSTRIAL WASTE DISPOSAL AREA IL 001

Design and Construction Criteria

2.1.14 Intermittent and Intermediate Cover

2.1.15 The permittee must apply intermittent and intermediate cover materials in accordance with the requirements of this permit and as outlined in the approved permit documents.

The wood/coal ash and solids from sewer cleaning operations must be covered at the end of each day with a compacted layer of at least six inches of suitable cover material. Suitable cover material shall be as described in the Cover Material subheading of this permit.

If disposal areas will be exposed to the elements for a period of 120 days or longer, an intermediate cover totaling at least 12 inches of compacted, suitable cover material must be provided and maintained. Suitable cover material shall be as described in the Cover Material subheading of this permit.

If industrial solid waste is used as intermittent and/or intermediate cover material, surface water that comes in contact with the waste shall be collected and managed as leachate.

The Commissioner reserves the right to modify the intermittent and intermediate cover requirements should the situation or operations at the facility indicate the need in the future.

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INDUSTRIAL WASTE DISPOSAL AREA IL 001

Design and Construction Criteria

2.1.16 Final Cover System

- 2.1.17 The permittee must apply final cover in accordance with the requirements of this permit and as outlined in the approved permit documents.

A buffer/gas migration layer will be placed on all surfaces of the facility when they have reached their final elevation. Placement shall begin within sixty (60) days, weather permitting, and shall consist of a minimum twelve (12) inches of soil.

Final cover placement will begin within one (1) year after placement of the buffer/gas migration layer and must be completed within two (2) years of placement of the buffer/gas migration layer. As the sludge is placed for the barrier layer of the final cover system, vegetation shall not be allowed to grow. If vegetation does become established on the sludge, the permittee shall remove all vegetation (weeds, grass, trees, etc) prior to the next lift of sludge being placed.

The Commissioner reserves the right to modify the final cover design requirements if the permittee cannot demonstrate that the leachate volumes have decreased significantly during the postclosure care period of Kettle D and Phases 1-4 that utilized the sludge in the barrier layer of its final cover system.

2.1.18 Cover and Liner Materials Evaluation

- 2.1.19 Soils intended for use as cover or liner material must be evaluated in accordance with Minn. R. 7035.2815, subp. 8 and the approved permit documents.

2.1.20 Liner Design

- 2.1.21 The liner must comply with the requirements of Minn. R. 7035.2815, subp. 7 and the approved permit documents.

If the alternative liner design, which utilizes a geosynthetic clay liner in place of two (2) feet of compacted clay, is installed, the Electrical Leak Location Survey shall be conducted after placement of the drainage layer is complete and heavy earthmoving equipment is finished operating over the liner. Electrical Leak Location Surveying shall be conducted as described in the approved Permit Documents.

2.1.22 Water Monitoring Systems

- 2.1.23 The permittee must design any proposed future expansions or modifications of the water monitoring system in accordance with Minn. R. 7035.2815, subp. 10.

2.1.24 Leachate Detection, Collection, and Treatment System

- 2.1.25 The permittee must design any future expansions or modifications of the waste 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.

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INDUSTRIAL WASTE DISPOSAL AREA IL 001

Design and Construction Criteria

2.1.26 Gas Monitoring, Collection, and Treatment System

2.1.27 The permittee must design and construct a gas monitoring, collection, and treatment system to meet the requirements of Minn. R. 7035.1700, subp. U and the approved permit documents.

2.1.28 Storm Water Management System

2.1.29 The permittee shall construct and certify the stormwater management system for the disposal area with Best Management Practices to manage stormwater discharges in accordance with the NPDES Permit for the discharge of stormwater associated with an industrial activity and/or construction activity.

2.1.30 The permittee must design and construct a run-on control system to prevent flow onto the waste activity area and a run-off control system to collect and control flow from the waste activity area resulting from a 24-hour, 25-year storm.

2.1.31 Water Monitoring Systems

2.1.32 The permittee must design and install a water monitoring system in compliance with Minn. R. 7035.2815, subp. 10.

2.2 Operating and Maintenance Criteria

2.2.1 Surface Water Drainage

2.2.2 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.

2.2.3 Run-on / Run-off Control System

2.2.4 The permittee must maintain a run-on control system to prevent flow onto the waste activity area, and a run-off control system to collect and control at least the water volume resulting from a 24 hour, 10 year storm.

2.2.5 Operation and Maintenance

2.2.6 The permittee must maintain and operate the disposal area in conformance with the practices outlined in Minn. R. 7035.1590 to Minn. R. 7035.2500 unless otherwise allowed by this permit.

2.2.7 The disposal area must be operated by a certified operator, as defined in Minn. R. 7048.0100 to 7048.1300, and in accordance with Minn. R. 7035.1700 item P. A certified operator must be present during the time that the disposal area is open to accept waste. All operations must conform to state and federal site safety regulations.

2.2.8 The disposal area must not be opened or placed into operation until the basic permit, certification, and compliance requirements of Minn. R. 7035.1900 have been satisfied.

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INDUSTRIAL WASTE DISPOSAL AREA IL 001

Operating and Maintenance Criteria

2.2.9 Intermittent, Intermediate, and Final Cover System

2.2.10 The permittee must apply cover materials (intermittent, intermediate, buffer/gas migration and final) in accordance with the requirements of this permit and as outlined in the approved permit documents.

The wood/coal ash and solids from sewer cleaning operations must be covered at the end of each day with a compacted layer of at least six inches of suitable cover material. Suitable cover material shall be as described in the Cover Material subheading below.

If disposal areas will be exposed to the elements for a period of 120 days or longer, an intermediate cover totaling at least 12 inches of compacted, suitable cover material must be provided and maintained. Suitable cover material shall be as described in the Cover Material subheading below.

If industrial solid waste is used as intermittent and/or intermediate cover material, surface water that comes in contact with the waste shall be collected as leachate.

A buffer/gas migration layer must be placed on all surfaces of the facility when they have reached their final elevation. Placement shall begin within sixty (60) days, weather permitting, and shall consist of a minimum twelve (12) inches of soil.

Final cover placement must begin within one (1) year after placement of the buffer/gas migration layer and must be completed within two (2) years of placement of the buffer/gas migration layer.

The Commissioner reserves the right to modify the intermittent and intermediate cover requirements should the situation or operations at the facility indicate the need in the future.

2.2.11 Frost Protection

2.2.12 The permittee must place at least six (6) feet of solid waste, or an MPCA approved alternative insulating material, on any newly constructed liner that contains a compacted clay barrier layer, 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 insulating material until six (6) feet of solid waste has been placed on the liner. No disposal may take place on uncovered areas after December 31 without testing the liner integrity and obtaining written approval from the commissioner.

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INDUSTRIAL WASTE DISPOSAL AREA IL 001

Operating and Maintenance Criteria

2.2.13 Cover Material

2.2.14 Materials used to cover the waste must be capable of preventing particulate matter from becoming airborne and causing a dust nuisance beyond the perimeter of the lined area of the facility. Waste and soil used as cover material at the facility must have sufficient moisture content to prevent dust production. A dust suppressant or additional cover material must be applied whenever necessary to prevent dust production. The commissioner reserves the right to alter the type of cover material and frequency of cover placement if problems exist.

Materials used for alternative cover use shall:

- 1) not have an offensive odor;
- 2) not pose a dusting problem after application is complete;
- 3) not be stockpiled or used in such a way as to generate contact with water releases to surface water or ground water; and
- 4) not pose a threat to facility workers.

The following industrial waste has been authorized for use as an alternative cover material as long as the above conditions can be met and maintained during its use as a cover material.

Dewatered primary and secondary waste activated sludge generated at the city of Grand Rapids Wastewater Treatment Facility.

2.2.15 Phase Development

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

2.2.17 Water Monitoring System

2.2.18 The permittee must maintain a water monitoring system in compliance with Minn. R. 7035.2815, subp. 10.

2.2.19 Working Face

2.2.20 The permittee must limit the disposal of industrial solid waste to as small an area as practical and with appropriate facilities to confine wind-blown material within the area.

2.2.21 Cover Material Stockpile

2.2.22 The permittee must maintain an adequate supply of cover material which, if necessary, must be stockpiled and protected to allow for compliance with the requirements contained in Minn. R. 7035.1700, item D. The cover material must be available for use during inclement weather or winter operations.

2.2.23 Final Cover

2.2.24 The permittee must maintain the the final cover system on all closed portions of the active waste disposal area in accordance with the approved plans and specifications.

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INDUSTRIAL WASTE DISPOSAL AREA IL 001

Operating and Maintenance Criteria

2.2.25 Storm Water Management

2.2.26 The permittee must operate and maintain the stormwater management system for the disposal area with Best Management Practices to manage stormwater discharges in accordance with the NPDES Permit for the discharge of stormwater associated with an industrial and/or construction activity.

2.2.27 Water Monitoring System

2.2.28 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.

2.2.29 Leachate System

2.2.30 The permittee must maintain the integrity and functionality of the leachate detection, collection and 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.

The permittee shall maintain less than one foot of head on the liner system in Kettle D and Phases 1-8.

2.2.31 The permittee shall label the Kettle D and Phases 1-8 control panels with the leachate head level reading that corresponds with one foot of head on each of these liner systems.

2.2.32 Gas Management System

2.2.33 The permittee must maintain a gas management system in accordance with the approved Permit documents.

2.3 Monitoring Criteria

2.3.1 Groundwater Performance Standards

2.3.2 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.

2.3.3 Compliance Boundary

2.3.4 The permittee must establish compliance boundaries according to Minn. R. 7035.2815, subp. 4, items A through E. A compliance boundary for the facility has been established and is outline in the Revised Phase IV Water Quality Monitoring Work Plan and Water Quality Monitoring Protocol, dated July 2000.

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INDUSTRIAL WASTE DISPOSAL AREA IL 001

Monitoring Criteria

2.3.5 Background Water Quality Monitoring

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

2.3.7 Monitoring Protocol

2.3.8 The permittee must develop and keep current a written monitoring protocol for the disposal area according to Minn. R. 7035.2815, subp. 14, item G and must ensure the protocol is followed during sampling and sample analysis.

2.3.9 Exceedence of Intervention Limit

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

2.3.11 Background Water Quality Monitoring

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

2.3.13 Groundwater Quality Sampling and Analysis

2.3.14 The permittee must conduct groundwater quality sampling and analysis as specified in 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 the sampling according to the schedule shown in the Limits Table(s) of this permit.

2.3.15 Monitoring Protocol

2.3.16 The permittee must develop and keep current a written monitoring protocol for the disposal area according to Minn. R. 7035.2815, subp. 14, item G and must ensure the protocol is followed during sampling and sample analysis. The Revised Phase IV Water Quality Monitoring Plan and Water Quality Monitoring Protocol, dated July 2000, outlines the current monitoring protocol for the facility.

2.3.17 Ground Water Quality Sampling and Analysis

2.3.18 Groundwater quality sampling and analysis must be conducted in accordance with Minn. R. 7035.2815, subp. 14 and must include the monitoring stations identified in the Limits Table(s) of this permit. Sampling must be conducted according to the schedule shown in the Limits Table(s) of this permit and as outlined in the Revised Phase IV Water Quality Monitoring Work Plan and Water Quality Monitoring Protocol, dated July 2000 and the Phase IV Water Quality Monitoring Work Plan Addendum, dated December 2000.

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INDUSTRIAL WASTE DISPOSAL AREA IL 001

Monitoring Criteria

2.3.19 Leachate Quality Sampling and Analysis

2.3.20 The permittee must conduct leachate quality sampling and analysis as specified in 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 the sampling according to the schedule shown in the Limits Table(s) of this permit and as outlined in the Phase IV Water Quality Monitoring Work Plan Addendum, dated December 2000.

2.3.21 Surface Water Quality Sampling and Analysis

2.3.22 Surface water quality sampling and analysis must be conducted in accordance with Minn. R. 7035.2815, subp. 14 and must include the monitoring stations identified in the Surface Water Sampling Plan, dated November 2000. Sampling must be conducted according to the schedule shown in the Surface Water Sampling Plan.

The permittee must conduct surface water quality sampling and analysis as specified in 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 the sampling according to the schedule shown in the Limits Table(s) of this permit.

2.3.23 Exceedence of Intervention Limit

2.3.24 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.

2.3.25 Gas Monitoring

2.3.26 The permittee must implement the gas monitoring plan in accordance with the approved Permit documents. Sampling and reporting for the gas vents and probes shall be conducted for percent oxygen, percent carbon dioxide, percent methane, percent lower explosive limit and relative pressure. Additional gas monitoring probes shall be installed if the gas monitoring data indicates that there is gas generation at levels of concern or gas migration is occurring off site.

2.4 Reporting Criteria

2.4.1 Routine Monitoring Reporting

2.4.2 The permittee shall submit routine water 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.

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INDUSTRIAL WASTE DISPOSAL AREA IL 001

Reporting Criteria

2.4.3 Annual Monitoring Evaluations

2.4.4 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.

2.4.5 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 Part 258, subp. C, Sec. 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.

2.4.6 Annual Waste Activity Report

2.4.7 The permittee shall submit an annual report in accordance with Minn. R. 7035.2585 and 7035.2815, subp. 13, item S. 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.

2.5 Contingency Action Criteria

2.5.1 Contingency Action

2.5.2 The permittee must implement the actions necessary to comply with requirements in accordance with Minn. R. 7035.2815, subp. 15.

2.6 Closure Criteria

2.6.1 Abandonment

2.6.2 The disposal area must be closed and abandoned in accordance with this permit and Minn. R. 7035.2500.

2.6.3 Closure Plan

2.6.4 The permittee must close the disposal area as specified in the approved plan in accordance with Minn. R. 7035.2625.

2.6.5 After closure of each fill phase, the permittee shall submit a closure certification that complies with Minn. R. 7035.2635, subpart 3, indicating that closure has been completed in accordance Minn. R. 7035.2625 and 7035.2635.

2.7 Postclosure Criteria

2.7.1 Postclosure Plan

2.7.2 The permittee must comply with postclosure requirements in the approved plan in accordance with Minn. R. 7035.2645.

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INDUSTRIAL WASTE DISPOSAL AREA IL 001

Postclosure Criteria

2.7.3 Postclosure Care

- 2.7.4 The permittee must perform postclosure care in accordance with Minn. R. 7035.2655, subp. 1.
- 2.7.5 The permittee must conduct postclosure care for 30 years as specified in 40 CFR 258.61.

2.7.6 Postclosure Use of Property

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

2.8 Financial Criteria

2.8.1 Financial Assurance

- 2.8.2 The permittee shall establish and maintain financial assurance in accordance with Minn. R. 7035.2665 to 7035.2805.

2.8.3 Cost Estimates

- 2.8.4 The permittee must keep the current cost estimates at the facility during the operating life in accordance with Minn. R. 7035.2685, subp. 2, except that the cost estimates must be updated at the end of each calendar year.

2.9 Specific Conditions

2.9.1 Modifications to Grand Rapids Wastewater Treatment Facility

- 2.9.2 If changes occur in the nature and characteristics of the primary sludge and the secondary waste activated sludge, including but not limited to an expansion at UPM-Blandin, it shall be demonstrated that the changes in the sludge will not negatively impact the operations at the landfill.

At a minimum, changes made to the nature and characteristics of the sludge shall require the following:

- > Complete and thorough physical mixing of the primary and waste activated sludge at the Grand Rapids Wastewater Treatment Facility, if they are dewatered separately, prior to hauling the combined sludges to the landfill for disposal.
- > The average solids content of the combined sludge after dewatering shall not be less than 30 percent.
- > The waste activated sludge shall be stabilized prior to disposal in the landfill by adding lime in accordance with lime stabilization procedures for domestic sludges to produce a class A biosolid, to minimize biological activity and odor impacts at the landfill.
- > Re-evaluation of the appropriateness of using the dewatered sludge as a barrier layer in the final cover system at the landfill.

LIMITS TABLE

Comments:

Report Date: 01/23/2013
Facility: Grand Rapids Sludge Facility
Permit SW-210

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14
Summer: Jul-01 to Jul-31
Fall: Oct-01 to Oct-31

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This Limits Table applies to the following stations:

WP-10 , WP-13 , WP-16 , WP-17 , WP-18 , WP-19 , WP-3 , WP-4 , WP-5 , WP-6

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

LIMITS TABLE

Comments:

Report Date: 01/23/2013
 Facility: Grand Rapids Sludge Facility
 Permit SW-210

Standard Landfill Monitoring Periods:
 Spring: Mar-28 to May-14
 Summer: Jul-01 to Jul-31
 Fall: Oct-01 to Oct-31

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This Limits Table applies to the following stations:

WP-11 , WP-12 , WP-14 , WP-15 , WP-20D , WP-20S , WP-21 , WP-22 , WP-23 , WP-24 , WP-25 , WP-7D , WP-7S , WP-26

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	17.5	ug/L	Fall	
1,1,1-Trichloroethane	715-56	150.0	ug/L	Fall	
1,1,2,2-Tetrachloroethane	793-45	0.5	ug/L	Fall	
1,1,2-Trichloroethane	790-05	0.75	ug/L	Fall	
1,1,2-Trichlorotrifluoroethane	761-31	50.0	ug/L	Fall	
1,1-Dichloroethane	753-43	25.0	ug/L	Fall	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	50.0	ug/L	Fall	
1,1-Dichloropropene	563-58-6	-	ug/L	Fall	
1,2-(trans-) Dichloroethylene	156-60-5	25.0	ug/L	Fall	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Fall	
1,2,3-Trichloropropane	961-84	10.0	ug/L	Fall	
1,2,4-Trichlorobenzene	120-82-1	17.5	ug/L	Fall	
1,2,4-Trimethylbenzene	956-36	25.0	ug/L	Fall	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	0.001	ug/L	Fall	
1,2-Dichlorobenzene (orth-)	955-01	150.0	ug/L	Fall	
1,2-Dichloroethane	107-06-2	1.0	ug/L	Fall	
1,2-Dichloroethylene (cis-)	156-59-2	17.5	ug/L	Fall	
1,2-Dichloropropane	788-75	1.25	ug/L	Fall	
1,3,5-Trimethylbenzene	108-67-8	25.0	ug/L	Fall	
1,3-Dichlorobenzene (meta-)	541-73-1	150.0	ug/L	Fall	
1,3-Dichloropropane	142-28-9	-	ug/L	Fall	
1,4-Dichlorobenzene (para-)	106-46-7	2.5	ug/L	Fall	
2,2-Dichloropropane	594-20-7	-	ug/L	Fall	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Fall	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Fall	
Acetone	676-41	175.0	ug/L	Fall	
Alkalinity, Total as CaCO3	T-0-05	-	mg/L	Spring	
Allyl chloride; (3 chloropropene)	107-05-1	7.5	ug/L	Fall	
Ammonia Nitrogen	766-44-17	-	mg/L	Spring	
Appearance	1	-	N/A	Spring and Fall	
Arsenic	744-03-82	12.5	ug/L	Spring	

Permit Issued:

Permit Expires:

LIMITS TABLE

Comments:

Report Date: 01/23/2013
 Facility: Grand Rapids Sludge Facility
 Permit SW-210

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14
 Summer: Jul-01 to Jul-31
 Fall: Oct-01 to Oct-31

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This Limits Table applies to the following stations:

WP-11 , WP-12 , WP-14 , WP-15 , WP-20D , WP-20S , WP-21 , WP-22 , WP-23 , WP-24 , WP-25 , WP-7D , WP-7S , WP-26

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Barium	744-03-93	500.0	ug/L	Spring	
Benzene	714-32	2.5	ug/L	Fall	
Biochemical Oxygen Demand (BOD)	C-0-02	-	ug/L	Spring	
Boron	744-04-28	250.0	ug/L	Spring	
Bromobenzene	108-86-1	-	ug/L	Fall	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Fall	
Bromodichloromethane (Dichlorobromomethane)	752-74	1.5	ug/L	Fall	
Bromoform	752-52	10.0	ug/L	Fall	
Bromomethane (Methyl bromide)	748-39	2.5	ug/L	Fall	
Cadmium	744-04-39	1.0	ug/L	Spring	
Calcium	744-07-02	-	mg/L	Spring	
Carbon tetrachloride	562-35	0.75	ug/L	Fall	
Cation-Anion Balance	F84-1 -	-	%	Spring and Fall	
Chemical Oxygen Demand (COD)	C-0-04	-	ug/L	Spring	
Chloride	168-87-006	-	mg/L	Spring	
Chlorobenzene; (monochlorobenzene)	108-90-7	25.0	ug/L	Fall	
Chlorodibromomethane;(Dibromochloromethane)	124-48-1	2.5	ug/L	Fall	
Chloroethane	750-03	-	ug/L	Fall	
Chloroform	676-63	15.0	ug/L	Fall	
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Fall	
Chromium VI	185-40-299	25.0	ug/L	Spring	
cis-1,3-Dichloropropene	100-61-015	0.5	ug/L	Fall	
Cobalt	744-04-84	7.5	ug/L	Spring	
Copper	744-05-08	250.0	ug/L	Spring	
Cumene; (Isopropylbenzene)	988-28	75.0	ug/L	Fall	
Dibromochloropropane; (DBCP)	961-28	0.05	ug/L	Fall	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Fall	
Dichlorodifluoromethane	757-18	175.0	ug/L	Fall	
Dichlorofluoromethane	754-34	-	ug/L	Fall	
Dichloromethane; (Methylene chloride)	750-92	12.5	ug/L	Fall	
Dissolved Oxygen, Field	T-1-05	-	mg/L	Spring and Fall	

Permit Issued:

Permit Expires:

LIMITS TABLE

Comments:

Report Date: 01/23/2013
Facility: Grand Rapids Sludge Facility
Permit SW-210

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14
Summer: Jul-01 to Jul-31
Fall: Oct-01 to Oct-31

DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

This Limits Table applies to the following stations:

WP-11 , WP-12 , WP-14 , WP-15 , WP-20D , WP-20S , WP-21 , WP-22 , WP-23 , WP-24 , WP-25 , WP-7D , WP-7S , WP-26

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Dissolved Solids, Total	C-0-10	-	mg/L	Spring	
Eh (Oxidation potential)	4	-	mV	Spring and Fall	
Ethyl benzene	100-41-4	12.5	ug/L	Fall	
Ethyl ether	602-97	50.0	ug/L	Fall	
Hexachlorobutadiene	876-83	0.25	ug/L	Fall	
Iron	743-98-96	-	ug/L	Spring	
Lead	743-99-21	-	ug/L	Spring	
Magnesium	743-99-54	-	ug/L	Spring	
Manganese	743-99-65	75.0	ug/L	Spring	
Mercury	743-99-76	0.5	ug/L	Spring	
Methyl ethyl ketone (MEK)	789-33	1,000.0	ug/L	Fall	
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	75.0	ug/L	Fall	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	-	ug/L	Fall	
Naphthalene	912-03	75.0	ug/L	Fall	
n-Butyl Benzene	104-51-8	-	ug/L	Fall	
Nickel	744-00-20	25.0	ug/L	Spring	
Nitrate + Nitrite	C-0-05	2,500.0	ug/L	Spring	
n-Propyl benzene	103-65-1	-	ug/L	Fall	
pH	C-0-06	-	SU	Spring and Fall	
Phosphorus	772-31-40	-	ug/L	Spring	
p-Isopropyltoluene	998-76	-	ug/L	Fall	
Potassium	744-00-97	-	ug/L	Spring	
sec-Butyl Benzene	135-98-8	-	ug/L	Fall	
Silver	744-02-24	7.5	ug/L	Spring	
Sodium	744-02-35	-	ug/L	Spring	
Specific Conductance	C-0-11	-	umho/cm	Spring and Fall	
Static Water Level (Elevation, MSL)	PCA-00-1	-	ft	Spring and Fall	
Styrene	100-42-5	25.0	ug/L	Fall	
Sulfate	148-08-798	-	mg/L	Spring	
Suspended Solids, Total	C-0-09	-	mg/L	Spring	
Temperature	T-1-21	-	Deg C	Spring and Fall	

Permit Issued:

Permit Expires:

LIMITS TABLE

Comments:

Report Date: 01/23/2013
 Facility: Grand Rapids Sludge Facility
 Permit SW-210

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14
 Summer: Jul-01 to Jul-31
 Fall: Oct-01 to Oct-31

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This Limits Table applies to the following stations:

WP-11 , WP-12 , WP-14 , WP-15 , WP-20D , WP-20S , WP-21 , WP-22 , WP-23 , WP-24 , WP-25 , WP-7D , WP-7S , WP-26

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
tert-Butyl Benzene	980-66	-	ug/L	Fall	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	1.75	ug/L	Fall	
Tetrahydrofuran	109-99-9	25.0	ug/L	Fall	
Toluene	108-88-3	50.0	ug/L	Fall	
Trichloroethylene; (TCE)	790-16	7.5	ug/L	Fall	
Trichlorofluoromethane	756-94	500.0	ug/L	Fall	
Turbidity, Field	G-0-19	-	NTU	Spring and Fall	
Vinyl chloride; (chloroethene)	750-14	0.05	ug/L	Fall	
Xylenes (mixture of o,m,p)	133-02-07	2,500.0	ug/L	Fall	
Zinc	744-06-66	500.0	ug/L	Spring	

Permit Issued:

Permit Expires:

LIMITS TABLE

Comments:

Report Date: 01/23/2013
 Facility: Grand Rapids Sludge Facility
 Permit SW-210

Standard Landfill Monitoring Periods:
 Spring: Mar-28 to May-14
 Summer: Jul-01 to Jul-31
 Fall: Oct-01 to Oct-31

DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

This Limits Table applies to the following stations:

Composite leachate sample from D and 1-4 , Leachate storage tank

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
1,1,1,2-Tetrachloroethane	630-20-6	-	ug/L	Spring and Fall	
1,1,1-Trichloroethane	715-56	-	ug/L	Spring and Fall	
1,1,2,2-Tetrachloroethane	793-45	-	ug/L	Spring and Fall	
1,1,2-Trichloroethane	790-05	-	ug/L	Spring and Fall	
1,1,2-Trichlorotrifluoroethane	761-31	-	ug/L	Spring and Fall	
1,1-Dichloroethane	753-43	25.0	ug/L	Spring and Fall	
1,1-Dichloroethylene;(Vinylidene chloride)	753-54	50.0	ug/L	Spring and Fall	
1,1-Dichloropropene	563-58-6	-	ug/L	Spring and Fall	
1,2-(trans-) Dichloroethylene	156-60-5	-	ug/L	Spring and Fall	
1,2,3-Trichlorobenzene	876-16	-	ug/L	Spring and Fall	
1,2,3-Trichloropropane	961-84	-	ug/L	Spring and Fall	
1,2,4-Trichlorobenzene	120-82-1	-	ug/L	Spring and Fall	
1,2,4-Trimethylbenzene	956-36	25.0	ug/L	Spring and Fall	
1,2-Dibromoethane;(Ethylene dibromide); EDB	106-93-4	-	ug/L	Spring and Fall	
1,2-Dichlorobenzene (orth-)	955-01	-	ug/L	Spring and Fall	
1,2-Dichloroethane	107-06-2	-	ug/L	Spring and Fall	
1,2-Dichloroethylene (cis-)	156-59-2	-	ug/L	Spring and Fall	
1,2-Dichloropropane	788-75	-	ug/L	Spring and Fall	
1,3,5-Trimethylbenzene	108-67-8	25.0	ug/L	Spring and Fall	
1,3-Dichlorobenzene (meta-)	541-73-1	-	ug/L	Spring and Fall	
1,3-Dichloropropane	142-28-9	-	ug/L	Spring and Fall	
1,4-Dichlorobenzene (para-)	106-46-7	-	ug/L	Spring and Fall	
2,2-Dichloropropane	594-20-7	-	ug/L	Spring and Fall	
2-Chlorotoluene (ortho-)	954-98	-	ug/L	Spring and Fall	
4-Chlorotoluene (para-)	106-43-4	-	ug/L	Spring and Fall	
Acetone	676-41	-	ug/L	Spring and Fall	
Alkalinity, Total as CaCO3	T-0-05	-	mg/L	Spring and Fall	
Allyl chloride; (3 chloropropene)	107-05-1	-	ug/L	Spring and Fall	
Ammonia Nitrogen	766-44-17	-	mg/L	Spring and Fall	
Appearance	1	-	N/A	Spring and Fall	
Arsenic	744-03-82	-	ug/L	Spring and Fall	

Permit Issued:

Permit Expires:

LIMITS TABLE

Comments:

Report Date: 01/23/2013
 Facility: Grand Rapids Sludge Facility
 Permit SW-210

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14
 Summer: Jul-01 to Jul-31
 Fall: Oct-01 to Oct-31

DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

This Limits Table applies to the following stations:

Composite leachate sample from D and 1-4 , Leachate storage tank

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Barium	744-03-93	-	ug/L	Spring and Fall	
Benzene	714-32	-	ug/L	Spring and Fall	
Biochemical Oxygen Demand (BOD)	C-0-02	-	ug/L	Spring and Fall	
Boron	744-04-28	250.0	ug/L	Spring and Fall	
Bromobenzene	108-86-1	-	ug/L	Spring and Fall	
Bromochloromethane (Chlorobromomethane)	749-75	-	ug/L	Spring and Fall	
Bromodichloromethane (Dichlorobromomethane)	752-74	-	ug/L	Spring and Fall	
Bromoform	752-52	-	ug/L	Spring and Fall	
Bromomethane (Methyl bromide)	748-39	-	ug/L	Spring and Fall	
Cadmium	744-04-39	-	ug/L	Spring and Fall	
Calcium	744-07-02	-	mg/L	Spring and Fall	
Carbon tetrachloride	562-35	-	ug/L	Spring and Fall	
Cation-Anion Balance	F84-1 -	-	%	Spring and Fall	
Chemical Oxygen Demand (COD)	C-0-04	-	ug/L	Spring and Fall	
Chloride	168-87-006	-	mg/L	Spring and Fall	
Chlorobenzene; (monochlorobenzene)	108-90-7	-	ug/L	Spring and Fall	
Chlorodibromomethane;(Dibromochloromethane)	124-48-1	-	ug/L	Spring and Fall	
Chloroethane	750-03	-	ug/L	Spring and Fall	
Chloroform	676-63	-	ug/L	Spring and Fall	
Chloromethane; (Methyl chloride)	748-73	-	ug/L	Spring and Fall	
Chromium VI	185-40-299	-	ug/L	Spring and Fall	
cis-1,3-Dichloropropene	100-61-015	-	ug/L	Spring and Fall	
Cobalt	744-04-84	-	ug/L	Spring and Fall	
Copper	744-05-08	-	ug/L	Spring and Fall	
Cumene; (Isopropylbenzene)	988-28	-	ug/L	Spring and Fall	
Dibromochloropropane; (DBCP)	961-28	-	ug/L	Spring and Fall	
Dibromomethane; (Methylene bromide)	749-53	-	ug/L	Spring and Fall	
Dichlorodifluoromethane	757-18	175.0	ug/L	Spring and Fall	
Dichlorofluoromethane	754-34	-	ug/L	Spring and Fall	
Dichloromethane; (Methylene chloride)	750-92	-	ug/L	Spring and Fall	
Dissolved Oxygen, Field	T-1-05	-	mg/L	Spring and Fall	

Permit Issued:

Permit Expires:

LIMITS TABLE

Comments:

Report Date: 01/23/2013
 Facility: Grand Rapids Sludge Facility
 Permit SW-210

Standard Landfill Monitoring Periods:
 Spring: Mar-28 to May-14
 Summer: Jul-01 to Jul-31
 Fall: Oct-01 to Oct-31

DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

This Limits Table applies to the following stations:

Composite leachate sample from D and 1-4 , Leachate storage tank

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Dissolved Solids, Total	C-0-10	-	mg/L	Spring and Fall	
Eh (Oxidation potential)	4	-	mV	Spring and Fall	
Ethyl benzene	100-41-4	12.5	ug/L	Spring and Fall	
Ethyl ether	602-97	50.0	ug/L	Spring and Fall	
Formaldehyde	500-00	-	ug/L	Fall	
Hexachlorobutadiene	876-83	-	ug/L	Spring and Fall	
Iron	743-98-96	-	ug/L	Spring and Fall	
Lead	743-99-21	-	ug/L	Spring and Fall	
Magnesium	743-99-54	-	ug/L	Spring and Fall	
Manganese	743-99-65	75.0	ug/L	Spring and Fall	
Mercury	743-99-76	-	ug/L	Spring and Fall	
Methyl ethyl ketone (MEK)	789-33	-	ug/L	Spring and Fall	
Methyl isobutyl ketone; (4-Methyl-2-pentanone)	108-10-1	-	ug/L	Spring and Fall	
Methyl tertiary-Butyl Ether (MTBE)	163-40-44	-	ug/L	Spring and Fall	
Naphthalene	912-03	-	ug/L	Spring and Fall	
n-Butyl Benzene	104-51-8	-	ug/L	Spring and Fall	
Nickel	744-00-20	-	ug/L	Spring and Fall	
Nitrate + Nitrite	C-0-05	-	ug/L	Spring and Fall	
n-Propyl benzene	103-65-1	-	ug/L	Spring and Fall	
pH	C-0-06	-	SU	Spring and Fall	
Phosphorus	772-31-40	-	ug/L	Spring and Fall	
p-Isopropyltoluene	998-76	-	ug/L	Spring and Fall	
Potassium	744-00-97	-	ug/L	Spring and Fall	
sec-Butyl Benzene	135-98-8	-	ug/L	Spring and Fall	
Silver	744-02-24	-	ug/L	Spring and Fall	
Sodium	744-02-35	-	ug/L	Spring and Fall	
Specific Conductance	C-0-11	-	umho/cm	Spring and Fall	
Styrene	100-42-5	-	ug/L	Spring and Fall	
Sulfate	148-08-798	-	mg/L	Spring and Fall	
Suspended Solids, Total	C-0-09	-	mg/L	Spring and Fall	
Temperature	T-1-21	-	Deg C	Spring and Fall	

Permit Issued:

Permit Expires:

LIMITS TABLE

Comments:

Report Date: 01/23/2013
 Facility: Grand Rapids Sludge Facility
 Permit SW-210

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14
 Summer: Jul-01 to Jul-31
 Fall: Oct-01 to Oct-31

DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT DRAFT

This Limits Table applies to the following stations:

Composite leachate sample from D and 1-4 , Leachate storage tank

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
tert-Butyl Benzene	980-66	-	ug/L	Spring and Fall	
Tetrachloroethylene; (Perchloroethylene)	127-18-4	-	ug/L	Spring and Fall	
Tetrahydrofuran	109-99-9	-	ug/L	Spring and Fall	
Toluene	108-88-3	50.0	ug/L	Spring and Fall	
Trichloroethylene; (TCE)	790-16	-	ug/L	Spring and Fall	
Trichlorofluoromethane	756-94	-	ug/L	Spring and Fall	
Turbidity, Field	G-0-19	-	NTU	Spring and Fall	
Vinyl chloride; (chloroethene)	750-14	-	ug/L	Spring and Fall	
Xylenes (mixture of o,m,p)	133-02-07	-	ug/L	Spring and Fall	
Zinc	744-06-66	-	ug/L	Spring and Fall	

Permit Issued:

Permit Expires:

LIMITS TABLE

Comments:

Report Date: 01/23/2013
Facility: Grand Rapids Sludge Facility
Permit SW-210

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14
Summer: Jul-01 to Jul-31
Fall: Oct-01 to Oct-31

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This Limits Table applies to the following stations:

GP-01 located West of Kettle A-3 , GP-02 located East of Kettle D , GP-03 located SE of Kettle C

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
LEL	PCA-01-0	100.0	%	Spring, Summer and Fall	
Methane Gas	PCA-01-1	5.0	%	Spring, Summer and Fall	

LIMITS TABLE

Comments:

Report Date: 01/23/2013
 Facility: Grand Rapids Sludge Facility
 Permit SW-210

Standard Landfill Monitoring Periods:

Spring: Mar-28 to May-14
 Summer: Jul-01 to Jul-31
 Fall: Oct-01 to Oct-31

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This Limits Table applies to the following stations:

Kettle D , Phase 1 , Phase 2 , Phase 3 , Phase 4 , Phase 5 , Phase 6 , Phase 7 , Phase 8

Analyte	CAS/EMMI#	Intervention Limit	Units	Frequency	Comments
Appearance	1	-	N/A	Spring and Fall	
Barium	744-03-93	-	ug/L	Spring and Fall	
Boron	744-04-28	250.0	ug/L	Spring and Fall	
Cation-Anion Balance	F84-1 -	-	%	Spring and Fall	
Cobalt	744-04-84	-	ug/L	Spring and Fall	
Manganese	743-99-65	75.0	ug/L	Spring and Fall	
Nickel	744-00-20	-	ug/L	Spring and Fall	
pH	C-0-06	-	SU	Spring and Fall	
Silver	744-02-24	-	ug/L	Spring and Fall	
Specific Conductance	C-0-11	-	umho/cm	Spring and Fall	
Static Water Level (Elevation, MSL)	PCA-00-1	-	ft	Spring and Fall	
Temperature	T-1-21	-	Deg C	Spring and Fall	
Turbidity, Field	G-0-19	-	NTU	Spring and Fall	

Permit Issued:

Permit Expires:

Required Actions and Submittals Table

Report Date: 01/23/2013

Facility: Grand Rapids Sludge Facility

Permit SW-210

Action: PER007

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Subject Item I.D. IL001

Required Actions/Submittals

Frequency/Due Date	Action or Submittal	Requirement
Annually	Submit Annual Waste Activity Report	An annual activity waste report for the industrial waste disposal area must be submitted by February 1 with the annual report. The report must include the specific items identified in Minn. R. 7035.2585 and 7035.2815, subp. 13, item S.
	Submit engineering design report	The permittee shall submit an engineering report by June 30, 2014 with the results of the hydraulic conductivity analysis of the sludge and an evaluation of whether the sludge is suitable for continued use as a barrier layer in the final cover system based on these results. This report shall also provide the basis for a 65 pound per cubic foot compaction specification and for the proposed lift placement thickness of 2 to 4 feet. In addition, the report shall include a revised Detail 5 on Plan Sheet 9 of the Permit Application that has a physical connection between the sand drainage layer of the final cover system and the liner system through use of the coarse aggregate shown on the Detail.
Annually	Submit Annual Gas Monitoring Evaluation Report	An annual gas monitoring 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.
TBD	Install	The permittee shall label the Kettle D and Phases 1-8 control panels with the leachate head level reading that corresponds with one foot of head on each of these liner systems.
Annually	Submit Spring Water Monitoring Report	A spring water monitoring report must be submitted by June 30 of each year. The water monitoring, leachate and leak detection system 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 in accordance with Minn. R. 7035.2585 and 7035.2815, subp. 14, item Q. The report must include a summary and discussion of the monitoring results for the preceding calendar year.
Annually	Submit Autumn Water Monitoring Report	An autumn water monitoring report must be submitted by February 1 of each year. The water monitoring, leachate and leak detection system 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.

Waste Capacity Table

Report Date: 01/23/2013
Facility: Grand Rapids Sludge Facility
Permit SW-210
Action: PER007

<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
IL001	Industrial Waste Disposal Area	Open	53.00	acres	4,218,022.00	cubic yards	4,218,022.00	cubic yards	Includes capacity for Original landfill area, Kettle A, A-1, A-2, A-3, B, C, D, E, F, and Phases 1-8