

US EPA ARCHIVE DOCUMENT

September 22, 2010

**CERTIFIED MAIL**

Mr. Craig Dufficy  
US Environmental Protection Agency  
Two Potomac Yard  
2733 S. Crystal Dr.  
5<sup>th</sup> Floor; N-5831  
Arlington, VA 22202-2733

RE: Request for Information under Section 104(e) of the Comprehensive Environmental Response, Compensation, and Liability Act 42 U.S.C. 9604(e) – Stanton Plant

Dear Mr. Dufficy;

This letter is in response to your August 24, 2010 letter that was received by Great River Energy (GRE) August 27, 2010. The letter requested information pursuant to Section 104(e) of CERCLA. September 2, GRE requested and was granted a 15 day extension to the information request.

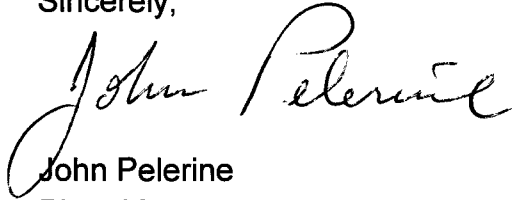
GRE has reviewed the instructions in Enclosure A and determined that three surface impoundments meet the definition of surface impoundments or similar diked or bermed management unit(s) designated as landfills which receive liquid-borne material from a surface impoundment used for the storage or disposal of residuals or by-products from the combustion of coal, including but limited to, fly ash, bottom ash, boiler slag, or flue gas emission control residuals.

Enclosure A contains responses to information for the GRE, Stanton Plant.

Your letter states that EPA has requested this information pursuant to authority granted under provisions of CERCLA which provides in relevant part that whenever the Agency has reason to believe that there may be a release or threat of a release of a pollutant or contaminant, they may require any person who has or may have information to furnish information or documents relating to the matter. GRE feels strongly that none of the impoundments at Stanton Plant presents the threat of release.

GRE has exercised the utmost care and diligence in preparing our responses. Please direct any questions concerning this submittal to my attention at the address listed below.

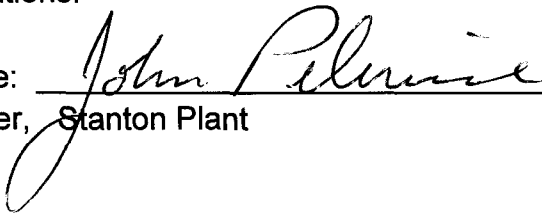
Sincerely,



John Pelerine  
Plant Manager,  
Stanton Plant  
4001 Hwy 200A  
Stanton, ND 58571

#### CERTIFICATION

I certify that the information contained in this response to EPA's request for information and the accompanying document is true, accurate, and complete. As to the identified portions of this response for which I cannot personally verify their accuracy, I certify under penalty of law that this response and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gather and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

John Pelerine:   
Plant Manager, Stanton Plant

Enclosure A: US EPA Request under Section 104(e) CERCLA  
September 22, 2010

1. Relative to the National Inventory of Dams criteria for High, Significant, Low or Less-than-Low, please provide the potential hazard rating for each management unit and indicate who established the rating, what the basis of the rating is and what federal, or state agency regulates the unit(s). If the unit(s) does not have a rating, please note that fact.

**The bottom ash ponds (designated north, middle, and south ponds) have not been rated by any agency under the National Inventory of Dams criteria. An independent engineer, hired by GRE, has rated the management units using the National Inventory of Dams criteria. Ratings are provided below.**

Management Unit	Potential Hazard Rating	Ratings Established By	Rating Basis	Regulating Agency
North Bottom Ash Pond / Cell 1	Less Than Low	Barr Engineering Company September, 2010	No probable loss of human life. Small impoundment capacity, low dam height, water does not contain pollutants at concentrations of concern (limited or no risk of environmental damage), and areas next to the pond are not susceptible to damage.	North Dakota Department of Health (NDDH) Division of Waste Management Permit SP-043
Middle Bottom Ash Pond / Retention Cell	Less Than Low	Barr Engineering Company September, 2010	No probable loss of human life. Small impoundment capacity, low dam height, water does not contain pollutants at concentrations of concern (limited or no risk of environmental damage), and areas next to the pond are not susceptible to damage.	North Dakota Department of Health (NDDH) Division of Waste Management Permit SP-043
South Bottom Ash Pond / Cell 2	Less Than Low	Barr Engineering Company September, 2010	No probable loss of human life. Small impoundment capacity, low dam height, water does not contain pollutants at concentrations of concern (limited or no risk of environmental damage), and areas next to the pond are not susceptible to damage.	North Dakota Department of Health (NDDH) Division of Waste Management Permit SP-043

2. What year was each management unit commissioned and expanded?

**All current impoundments were commissioned in 1994 and have not been expanded since operations started.**

3. What materials are temporarily or permanently contained in the unit? Use the following categories to respond to this question: (1) fly ash; (2) bottom ash; (3) boiler slag; (4) flue gas emission control residuals; (5) other. If the management unit contains more than one type of material, please identify all that apply. Also, if you identify "other" please specify the other type of materials that are temporarily or permanently contained in the unit(s).

Impoundment Name	Material	Temporary/Permanent
North Bottom Ash Pond / Cell 1	3, 4, and 5 (coal mill rejects)	Temporary
Middle Bottom Ash Pond / Retention Cell	3, 4, and 5 (coal mill rejects)	Temporary
South Bottom Ash Pond / Cell 2	3, 4, and 5 (coal mill rejects)	Temporary

4. Was the management unit(s) designed by a professional Engineer? Is or was the construction of the waste management units(s) under the supervision of a Professional Engineer? Is inspection and monitoring of the safety of the waste management unit(s) under the supervision of a Professional Engineer?

**All management units have been designed by independent engineering firms. Quality Control/Quality Assurance (QA/QC) during the construction of all impoundments was conducted by an independent testing firm and QA/QC results are analyzed by both the State of North Dakota and the design engineer.**

**GRE performs monthly inspections on all impoundments. All inspections are documented in the plant Computerized Maintenance Management System (CMMS). Impoundments are inspected for all applicable rules and regulations. GRE has conducted training for all personnel performing inspections. In addition to monthly inspections, operations personnel are trained to observe abnormalities during routine rounds.**

**Inspection and monitoring activity is under the supervision of a professional engineer registered in the state of North Dakota.**

5. When did the company last assess or evaluate the safety (i.e. structural integrity) of the management unit(s)? Briefly describe the credentials of those conducting the structural integrity assessments/evaluations. Identify actions taken or planned by facility personnel as a result of these assessments or evaluations. If corrective actions were taken, briefly describe the credentials of those performing the corrective actions, whether they were company employees or contractors. If the company plans an assessment or evaluation in the future, when is it expected to occur?

<b>Impoundment Name</b>	<b>Assessment Date</b>	<b>Corrective Action</b>
<b>North Bottom Ash Pond / Cell 1</b>	<b>9-15-10</b>	<b>None Recommended</b>
<b>Middle Bottom Ash Pond / Retention Cell</b>	<b>9-15-10</b>	<b>None Recommended</b>
<b>South Bottom Ash Pond / Cell 2</b>	<b>9-15-10</b>	<b>None Recommended</b>

**Structural integrity evaluations of all impoundments at Stanton Plant were completed under the supervision of a professional engineer registered in the state of North Dakota, job title Senior Geotechnical Engineer, employed by Barr Engineering Company, an independent engineering consulting firm.**

6. When did a State or a Federal regulatory official last inspect or evaluate the safety (structural integrity) of the management unit(s)? If you are aware of a planned state or federal inspection or evaluation in the future, when is it expected to occur? Please identify the Federal or State regulatory agency or department which conducted or is planning the inspection or evaluation. Please provide a copy of the most recent official inspection report or evaluation.

**There have been no Federal regulatory agency inspections or evaluations.**

**The North Dakota Department of Health, Waste Management Division has performed Solid Waste inspections two times a year for the past several years. The most recent report is from the 11/19/2009 inspection. All impoundments are permitted by NDDH Solid Waste Department. NDDH does not perform dam safety inspections as part of its annual site inspections but does inspect monitoring activities associated with the**

**operation of the impoundments. The next inspection is expected to occur in October 2010.**

7. Have assessments, evaluations, or inspections conducted by State or Federal regulatory officials conducted within the past year uncovered a safety issue(s) with the management unit(s), and, if so, describe the actions that have been or are being taken to deal with the issue or issues. Please provide any documentation that you have for these actions.

**No safety issues have been found.**

8. What is the surface area (acres) and total storage capacity of each of the management unit(s)? What is the volume of material currently stored in each of the management unit(s)? Please provide the date that the volume measurement(s) was taken. Please provide the maximum height of the management units(s). The basis for determining maximum height is explained later in the Enclosure.

<b>Impoundment Name</b>	<b>Surface Area Acres</b>	<b>Total Storage Capacity</b>
<b>North Bottom Ash Pond / Cell 1</b>	<b>3.56</b>	<b>59,000 cubic yards</b>
<b>Middle Bottom Ash Pond / Retention Cell</b>	<b>3.11</b>	<b>62,000 cubic yards</b>
<b>South Bottom Ash Pond / Cell 2</b>	<b>3.83</b>	<b>65,000 cubic yards</b>

<b>Impoundment Name</b>	<b>Date</b>	<b>Volume of material currently stored</b>
<b>North Bottom Ash Pond / Cell 1</b>	<b>7/1/10</b>	<b>9259 cubic yards</b>
<b>Middle Bottom Ash Pond / Retention Cell</b>	<b>7/1/10</b>	<b>5017 cubic yards</b>
<b>South Bottom Ash Pond / Cell 2</b>	<b>11/15/09 Engineering Est.</b>	<b>35,185 cubic yards</b>

<b>Impoundment Name</b>	<b>Maximum Height Feet</b>
<b>North Bottom Ash Pond</b>	<b>13</b>
<b>Middle Bottom Ash Pond</b>	<b>13</b>
<b>South Bottom Ash Pond</b>	<b>13</b>

9. Please provide a brief history of known spills or unpermitted releases from the unit within the last ten years, whether or not these were reported to State or federal regulatory agencies. For purposes of this question, please include only releases to surface water or to the land (do not include releases to groundwater).

**No spills or unpermitted releases from the units.**

10. Please identify all current legal owner(s) and operator(s) at the facility.

**The current legal owner and operator of the facility:**

**Great River Energy**

**12300 Elm Creek Boulevard**

**Maple Grove, Minnesota 55369-4718**





**NORTH DAKOTA**  
DEPARTMENT of HEALTH

ENVIRONMENTAL HEALTH SECTION  
Gold Seal Center, 918 E. Divide Ave.  
Bismarck, ND 58501-1947  
701.328.5200 (fax)  
www.ndhealth.gov



FILE: Great River Energy—Stanton Station (SP-0043 & SP-0085)

January 28, 2010

DEREK LANING  
GENERATION ENGINEER  
GREAT RIVER ENERGY  
STANTON STATION  
4001 HWY 200A  
STANTON ND 58571-9402

Dear Mr. Laning:

On November 19, 2009, I conducted a routine inspection of Great River Energy's (GRE) Stanton Station solid waste management facilities as regulated by the North Dakota Department of Health under permits SP-0043 and SP-0085. Permit SP-0043 pertains to the bottom ash settlement ponds at the Station, and SP-0085 regulates the fly ash disposal, contact water sump and storm water pond at the former Glenharold Mine site. Please review the copies of the inspection checklists and photographs included with this letter.

At the time of inspection, the north, middle and south settling ponds appeared to be functioning normally on the permitted 0043 facility. Upon observation, there were no apparent cracks, seepage or significant erosion on the settlement pond embankments. The units had over two feet of freeboard. As was discussed during the inspection of the 0043 facilities, disposal of settled bottom ash was discontinued at the south impoundment during October 2009, and the north pond began receiving bottom ash for settling. Dewatering of the south pond also began during that time. Please keep the Department informed when the dewatering of the south pond resumes during the spring of 2010, and when the dredging and disposal of the ponded waste begins.

Regarding the waste woodpile on the 0043 property, our discussion again noted GRE's repeated attempts to recycle wood wastes, especially pallets that are discarded on the waste woodpile. Please keep the Department informed as to any future discussions with Waste Management or other recyclers regarding any means or proposals to recycle or reuse suitable waste wood. For your information, I have enclosed guidance information on wood waste management that is also available on our website at:

<http://www.ndhealth.gov/wm/Publications/WoodWasteInformation.pdf>

<http://www.ndhealth.gov/wm/Publications/WoodProcessingRecyclingFacilitiesAndEquipmentVendors.pdf>

Environmental Health  
Section Chief's Office  
701.328.5150

Division of  
Air Quality  
701.328.5188

Division of  
Municipal Facilities  
701.328.5211

Division of  
Waste Management  
701.328.5166


Division of  
Water Quality  
701.328.5210

Regarding the 0085 fly ash landfill disposal facility located in a portion of the former Glenharold Mine, the Department requests that whenever the sump at the facility needs to be pumped out to maintain the two-foot freeboard requirement, that samples of the contact water be taken to determine the levels of heavy metals, sodium and other parameters. The Department is aware that no sampling of the contact water in the sump adjacent to the fly ash disposal area was conducted when it was pumped out in the spring of 2009 to the other contact water pond. For the future, the Department requests regular, annual sampling of the contact water (leachate) in both ponds as part of the regular monitoring for this facility. In addition, please ensure that all incoming fly ash and coal ash piles are spread out in a timely manner.

The Department recognizes GRE markets its fly ash/fgd material for beneficial use, whereby nearly 75% of the waste generated has been recycled for industrial and oilfield waste solidification and other purposes.

If you have any further questions or comments regarding this inspection, please contact me at [kijohnson@nd.gov](mailto:kijohnson@nd.gov), by phone at 701-624-5622, Ext. 299, or the Department in Bismarck at 701-328-5166.

Sincerely,



Kirk D. Johnson, Env. Scientist  
Solid Waste Program  
Division of Waste Management

KDJ:lb

Enc.

cc: Custer Health



**SMALL VOLUME INDUSTRIAL WASTE SPECIAL WASTE LANDFILL INSPECTION  
CHECKLIST- CHECKLIST 4**  
NORTH DAKOTA DEPARTMENT OF HEALTH - DIVISION OF WASTE MANAGEMENT  
Telephone: 701-328-5166 • Fax: 701-328-5200 (9-2006)

Facility Name: Great River Energy-Stanton -(Ponds an	Permit Number: 0043
Inspector: Kirk Johnson	Date/Time: 11/19/2009 9:55:00 AM
Weather Conditions: Partly cloudy, around 40 degrees	Facility Representative: Derek Laning

**This checklist includes small volume industrial waste and special waste landfill performance standards prescribed in Article 33-20 NDAC. It is not an inclusive checklist of all requirements for these landfills. This checklist is intended to help assess the routine operation of the landfill. The applicable chapter and subsection are referenced after each item.**

- |     |   |
|-----|---|
| Yes | 1. A permanent sign must be posted at the entrance of a facility, or at the entrance of a solid waste management unit used by a facility for wastes generated on-site, which indicates the following: The name of the facility, the permit number, the name and telephone number of the owner and the operator if different than the owner, the days and hours the facility is open for access, the wastes not accepted for disposal, and any restrictions for trespassing, burning, hauling, or nonconforming dumping. (04.1-02.7) |
| Yes | 2. Every solid waste landfill or facility shall have and maintain, or have access to, equipment adequate for the excavation, compaction, covering, surface water management, and monitoring procedures. (04.1-09.2.a.)  |
| Yes | 3. Roads must be constructed and maintained to provide access to the facility. Access roads must be cleaned and decontaminated as necessary. (04.1-09.2.b.)   |
| Yes | 4. There must be available an adequate supply of suitable cover material, which, if necessary, must be stockpiled and protected for winter operation. (04.1-09.2.c.)  |
| Yes | 5. All disposal facilities shall identify, quantify, remove, stockpile, and maintain suitable plant growth material for later use in closure. (04.1-09.2.f.)  |
| Yes | 6. Suitable control measures must be taken whenever fugitive dust is a nuisance or exceeds the levels specified in article 33-15. (04.1-02.5)   |
| Yes | 7. The working face or open area of a landfill must be limited in size to as small an area as practicable. Sequential partial closure must be implemented as necessary to keep the disposal area as small as practicable and to close filled areas in a timely manner. (04.1-09.2.e.)   |
| Yes | 8. All surface water run-on or runoff must be properly controlled to avoid its concentration on or in solid waste and to minimize infiltration into the waste material. Disposal shall avoid any areas within the facility where run-on or runoff accumulates. (04.1-09.3.d.)   |
| Yes | 9. All solid wastes deposited at the landfill must be spread and compacted as densely as practicable to minimize waste volume and promote drainage of surface water. (07.1-01.3)  |
| Yes | 10. On all areas of the landfill where final cover or additional solid waste will not be placed within six months, 8 inches or more of compacted, clay-rich soil material, similar material, or a synthetic cover must be placed to prevent ponding of surface water, to minimize infiltration of surface water, and to control windblown dust. (07.1-01.1)   |
| Yes | 11. Active areas of the landfill must be surveyed periodically to ensure that filling is proceeding in a manner consistent with landfill design. (04.1-09.3.c.)   |
| N/A | 12. All litter or windblown rubbish, trash, or garbage must be returned to the solid waste management facility as soon as practicable. (04.1-02.9)  |
| Yes | 13. All earthen material must be maintained on-site unless removal from the site is authorized by the department. (04.1-09.2.k.)  |

Yes 14. Leachate removal systems must be operated and maintained to assure continued function according to the design efficiency. This shall include, where applicable: (04.1-09.3.e.)

*Items c and d not applicable*

- a. Flushing, inspection, and, if necessary, repair of collection lines after placement of the first layer of waste in a landfill cell;
- b. Annual sampling and analysis of leachate for the parameters required under the ground water quality monitoring required under section 33-20-13-02;
- c. At minimum, semiannual monitoring of leachate head or elevations above the liner;
- d. Annual flushing of leachate collection lines to remove dirt and scale; and
- e. Inclusion of leachate removal system operation, inspection, and maintenance procedures in the operating record.

Yes 15. Solid waste disposal in industrial waste landfills and special waste landfills must be limited to those wastes identified in the permit application or permit. Regulated infectious waste, used oil as a free liquid, hazardous waste, and radioactive waste may not be accepted for disposal at the landfill. (07.1-01.2)

Yes 16. The owner or operator must design, construct, and operate each surface impoundment so as to have dikes designed to maintain their structural integrity under conditions of a leaking liner and capable of withstanding erosion, and have the freeboard equal to or greater than 2 feet [61.0 centimeters] to avoid overtopping from wave action or precipitation. (08.1-01.2.c.d.)

*An inspection of the three surface impoundments for bottom ash showed the liners to be free of tears or cracks, and the embankments are in good shape.*

Comments: After a planned plant outage in August 2009, the north bottom ash surface impoundment was started back into service in October 2009, while the south pond was decommissioned, and dewatering began in October/November 2009 and will be completed in the spring of 2010. After dewatering, the sludge will be removed from the south end and deposited into the adjacent bottom ash disposal site. The stormwater pond was dredged in summer of 2009. The waste woodpile was large, with pallets, constructed platforms/steps from the outage, etc. GRE has looked into wood recycling.

Signature of Inspector: *Kirk D. Johnson*

Title: Environmental Scientist

**Photo-Mounting Form**  
**ND DEPT OF HEALTH - DIV OF WASTE MANAGEMENT**  
**Great River Energy - Great River Energy-Stanton -(Ponds and landfill)**



<b>Subject</b>	GRE (0043)	<b>Description</b>	Bottom ash surface impoundment, recently recommissioned to receive bottom ash with water	<b>Date</b>	11/19/2009
<b>Location</b>	Great River Energy-Stanton -(Ponds	<b>Witness</b>	Derek Laning	<b>Time</b>	
<b>Photographer</b>	Kirk Johnson				



<b>Subject</b>	GRE (0043)	<b>Description</b>	Middle bottom ash pond where water recirculates back into the river	<b>Date</b>	11/19/2009
<b>Location</b>	Great River Energy-Stanton -(Ponds	<b>Witness</b>	Derek Laning	<b>Time</b>	
<b>Photographer</b>	Kirk Johnson				

**Photo-Mounting Form**  
**ND DEPT OF HEALTH - DIV OF WASTE MANAGEMENT**  
**Great River Energy - Great River Energy-Stanton -(Ponds and landfill)**



<b>Subject</b>	GRE (0043)	<b>Description</b>	Bottom ash surface impoundment, recently decommissioned and slowly being dewatered	<b>Date</b>	11/19/2009
<b>Location</b>	Great River Energy-Stanton -(Ponds	<b>Witness</b>	Derek Laning	<b>Time</b>	
<b>Photographer</b>	Kirk Johnson				



<b>Subject</b>	GRE (0043)	<b>Description</b>	Recently dredged stormwater pond	<b>Date</b>	11/19/2009
<b>Location</b>	Great River Energy-Stanton -(Ponds	<b>Witness</b>	Derek Laning	<b>Time</b>	
<b>Photographer</b>	Kirk Johnson				

**Photo-Mounting Form**  
**ND DEPT OF HEALTH - DIV OF WASTE MANAGEMENT**  
**Great River Energy - Great River Energy-Stanton -(Ponds and landfill)**

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<b>Subject</b>	GRE (0043)	<b>Description</b>	Waste woodpile with tree cuttings, pallets and some construction platforms and steps	<b>Date</b>	11/19/2009
<b>Location</b>	Great River Energy-Stanton -(Ponds			<b>Time</b>	
<b>Photographer</b>	Kirk Johnson	<b>Witness</b>	Derek Laning		

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**SMALL VOLUME INDUSTRIAL WASTE SPECIAL WASTE LANDFILL INSPECTION  
CHECKLIST- CHECKLIST 4**  
NORTH DAKOTA DEPARTMENT OF HEALTH - DIVISION OF WASTE MANAGEMENT  
Telephone: 701-328-5166 • Fax: 701-328-5200 (9-2006)

Facility Name: Great River Energy - Stanton (Glenharo)	Permit Number: 0085
Inspector: Kirk Johnson	Date/Time: 11/19/2009 9:55:00 AM
Weather Conditions: Sunny, approximately 40 degrees	Facility Representative: Derek Laning

**This checklist includes small volume industrial waste and special waste landfill performance standards prescribed in Article 33-20 NDAC. It is not an inclusive checklist of all requirements for these landfills. This checklist is intended to help assess the routine operation of the landfill. The applicable chapter and subsection are referenced after each item.**

- |     |   |
|-----|---|
| Yes | 1. A permanent sign must be posted at the entrance of a facility, or at the entrance of a solid waste management unit used by a facility for wastes generated on-site, which indicates the following: The name of the facility, the permit number, the name and telephone number of the owner and the operator if different than the owner, the days and hours the facility is open for access, the wastes not accepted for disposal, and any restrictions for trespassing, burning, hauling, or nonconforming dumping. (04.1-02.7) |
| Yes | 2. Every solid waste landfill or facility shall have and maintain, or have access to, equipment adequate for the excavation, compaction, covering, surface water management, and monitoring procedures. (04.1-09.2.a.)  |
| Yes | 3. Roads must be constructed and maintained to provide access to the facility. Access roads must be cleaned and decontaminated as necessary. (04.1-09.2.b.)   |
| Yes | 4. There must be available an adequate supply of suitable cover material, which, if necessary, must be stockpiled and protected for winter operation. (04.1-09.2.c.)  |
| Yes | 5. All disposal facilities shall identify, quantify, remove, stockpile, and maintain suitable plant growth material for later use in closure. (04.1-09.2.f.)  |
| Yes | 6. Suitable control measures must be taken whenever fugitive dust is a nuisance or exceeds the levels specified in article 33-15. (04.1-02.5)   |
| Yes | 7. The working face or open area of a landfill must be limited in size to as small an area as practicable. Sequential partial closure must be implemented as necessary to keep the disposal area as small as practicable and to close filled areas in a timely manner. (04.1-09.2.e.)   |
| Yes | 8. All surface water run-on or runoff must be properly controlled to avoid its concentration on or in solid waste and to minimize infiltration into the waste material. Disposal shall avoid any areas within the facility where run-on or runoff accumulates. (04.1-09.3.d.)   |
| Yes | 9. All solid wastes deposited at the landfill must be spread and compacted as densely as practicable to minimize waste volume and promote drainage of surface water. (07.1-01.3)  |
| Yes | 10. On all areas of the landfill where final cover or additional solid waste will not be placed within six months, 8 inches or more of compacted, clay-rich soil material, similar material, or a synthetic cover must be placed to prevent ponding of surface water, to minimize infiltration of surface water, and to control windblown dust. (07.1-01.1)   |
| Yes | 11. Active areas of the landfill must be surveyed periodically to ensure that filling is proceeding in a manner consistent with landfill design. (04.1-09.3.c.)   |
| N/A | 12. All litter or windblown rubbish, trash, or garbage must be returned to the solid waste management facility as soon as practicable. (04.1-02.9)  |
| Yes | 13. All earthen material must be maintained on-site unless removal from the site is authorized by the department. (04.1-09.2.k.)  |



Yes 14. Leachate removal systems must be operated and maintained to assure continued function according to the design efficiency. This shall include, where applicable: (04.1-09.3.e.)

*Items c and d are not applicable*

- a. Flushing, inspection, and, if necessary, repair of collection lines after placement of the first layer of waste in a landfill cell;
- b. Annual sampling and analysis of leachate for the parameters required under the ground water quality monitoring required under section 33-20-13-02;
- c. At minimum, semiannual monitoring of leachate head or elevations above the liner;
- d. Annual flushing of leachate collection lines to remove dirt and scale; and
- e. Inclusion of leachate removal system operation, inspection, and maintenance procedures in the operating record.

Yes 15. Solid waste disposal in industrial waste landfills and special waste landfills must be limited to those wastes identified in the permit application or permit. Regulated infectious waste, used oil as a free liquid, hazardous waste, and radioactive waste may not be accepted for disposal at the landfill. (07.1-01.2)

Yes 16. The owner or operator must design, construct, and operate each surface impoundment so as to have dikes designed to maintain their structural integrity under conditions of a leaking liner and capable of withstanding erosion, and have the freeboard equal to or greater than 2 feet [61.0 centimeters] to avoid overtopping from wave action or precipitation. (08.1-01.2.c.d.)

*In early 2009 after the heavy snowmelt, a pump and hose were installed to drain the sump lower to maintain freeboard levels--pumped into the stormwater pond.*

Comments: Since the date of the last inspection in June 2009, the water levels in the stormwater pond have dropped significantly. The water level in the sump of the active fly ash disposal area has also declined, and is well below freeboard. Infrequently, to maintain proper freeboard levels in the sump, it has been drained via pumps and hoses into the stormwater pond. Early in the spring of 2009, there had been some erosion on an access approach by the sump area; GRE staff repaired the approach with earthen fill in May 2009. In 2009, fly ash reception into the landfill has been less than in 2008, due to the GRE planned outage, and also due to lessened market demand for fly ash. In 2008, approximately 73% of the fly ash was recycled; this same percentage may hold true for 2009.

Signature of Inspector: <i>Kirk D. Johnson</i>	Title: Environmental Scientist
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**Photo-Mounting Form**  
**ND DEPT OF HEALTH - DIV OF WASTE MANAGEMENT**  
**Great River Energy - Great River Energy - Stanton (Glenharold Mine)**



<b>Subject</b>	GRE (0085)	<b>Description</b>	Facility sign and entrance	<b>Date</b>	11/19/2009
<b>Location</b>	Great River Energy - Stanton (Glenh	<b>Witness</b>	Derek Laning	<b>Time</b>	
<b>Photographer</b>	Kirk Johnson				



<b>Subject</b>	GRE (0085)	<b>Description</b>	Fly and coal ash disposal site	<b>Date</b>	11/19/2009
<b>Location</b>	Great River Energy - Stanton (Glenh	<b>Witness</b>	Derek Laning	<b>Time</b>	
<b>Photographer</b>	Kirk Johnson				

Photo-Mounting Form  
ND DEPT OF HEALTH - DIV OF WASTE MANAGEMENT  
Great River Energy - Great River Energy - Stanton (Glenharold Mine)

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<b>Subject</b>	GRE (0085)	<b>Description</b>	Stormwater pond view	<b>Date</b>	11/19/2009
<b>Location</b>	Great River Energy - Stanton (Glenh			<b>Time</b>	
<b>Photographer</b>	Kirk Johnson	<b>Witness</b>	Derek Laning		

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<b>Subject</b>	GRE (0085)	<b>Description</b>	Disposal cell sump pond filled with contact water adjacent to fly ash disposal site	<b>Date</b>	11/19/2009
<b>Location</b>	Great River Energy - Stanton (Glenh			<b>Time</b>	
<b>Photographer</b>	Kirk Johnson	<b>Witness</b>	Derek Laning		

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## WOOD WASTE INFORMATION

North Dakota Department of Health - Division of Waste Management

Telephone: 701-328-5166 • Fax: 701-328-5200 • Website: [www.ndhealth.gov/wm](http://www.ndhealth.gov/wm)

Revision 01/2007

In the past some managers of wood waste have relied on burn variances for disposing materials that could potentially be reduced, reused and/or recycled. The North Dakota Department of Health (Department) encourages cities, landfills, and generators of wood waste to evaluate more environmentally suitable options for managing wood trade wastes such as pallets, scrap lumber, etc., as well as trees and tree branches. Options include waste reduction; reuse of wood materials such as pallets, lumber, etc.; using wood for firewood or as a heating source; grinding the materials to make a mulch or compost medium, and/or utilizing a permitted air curtain destructor. For buildings, we recommend investigating moving it to another location or salvaging the material. Some entities place several ads in the paper seeking people to take wood materials.

The intent of North Dakota Administrative Code (NDAC) 33-15-01-07 regarding variances is to allow open burning in cases of **exceptional circumstances**, rather than allowing routine open burning as an alternative to recycling or disposal. NDAC 33-15-01-07 reads:

### 33-15-01-07. Variances.

1. Whereupon written application of the responsible person or persons the department finds that by reason of exceptional circumstances strict conformity with any provisions of this article would cause undue hardship, would be unreasonable, impractical, or not feasible under circumstances, the department may permit a variance from this article upon such conditions and within such time limitations as it may prescribe for prevention, control, or abatement of air pollution in harmony with the intent of the state and any applicable federal laws.
2. No variance may permit or authorize the creation or continuation of a public nuisance, or a danger to public health or safety.

Enclosed is a list of companies who utilize, chip or process wood materials "Wood Processing/ Recycling Facilities and Equipment Vendors." We also recommend working with local salvage or firewood brokers. The Department, in providing this information, does not endorse these companies; rather it is intended to help provide information that may be beneficial. We encourage wood waste generators to evaluate options for the future. We ask that wood waste managers work with generators to reduce, reuse and recycle these materials. For any future variances, we ask that more details be provided on the justification for the variance, as well as what your facility is doing to encourage waste reduction, reuse and recycling. A copy of the variance form "Application for Open Burning Variance at Landfills" is enclosed for your future consideration.

In conclusion, we request that you begin to evaluate your options for improving the management of these wood materials to reflect the state's goals of waste reduction, reuse and recycling, as well as continued improvement of our environmental health. Should you have any questions or ideas regarding these matters, please feel free to contact the Department at the following address:

North Dakota Department of Health  
Division of Waste Management  
918 E. Divide Ave., 3rd Fl.  
Bismarck, ND 58501-1947



## WOOD PROCESSING/RECYCLING FACILITIES AND EQUIPMENT VENDORS

North Dakota Department of Health - Division of Waste Management  
Revision 01/2009

Telephone: 701-328-5166  
Fax: 701-328-5200  
Web site: [www.ndhealth.gov/wm](http://www.ndhealth.gov/wm)

Name	Address	City	State	Zip Code	Telephone
<b>Wood Processing/Grinding Companies</b>					
Buberl Recycling	5750 Memorial Ave N	Stillwater	MN	55082	651-439-8399 612-919-8399 (Cell) buberlrecycling@uswest.net
Fraedrich Transport	13635 54th St SE	Enderlin	ND	58027	701-437-2882
Motter's Custom Grinding Inc	RR 1 Box 60	Clifford	ND	58016	701-488-2287 701-945-2481 (Fax) 701-430-1184 (Cell)
Dakota Wood-Grinding Inc	15325 Babcock Ave	Rosemount	MN	55068-6126	651-322-2622 612-867-1282 (Cell) 651-423-6491 (Home)
Pro-Pallet Inc(grinding pallets & crates)	151 12th Ave NW PO Box 702	West Fargo	ND	58078	701-281-0431
<b>Pallet Repair/Sales</b>					
API Pallet Inc.	5228 Phoenix Ct	Grand Forks	ND	58203	701-780-9780
American Pallet & Packaging Co	3402 15th St S	Fargo	ND	58104	701-476-3457
Centennial Shipping Products & Packaging	2740 Main Ave.	Fargo	ND	58102	701-293-1331
Jerry's Palleting	712 40th St NW	Fargo	ND	58102	701-277-0927
Pallet Company	2301 7th Ave N	Fargo	ND	58102	701-297-6880
Pro-Pallet Inc	PO Box 702	West Fargo	ND	58078	701-281-0431
<b>Pallet Repair/Sales, continued</b>					
Valley Recycling & Pallet Inc	413 19th Ave NW	West Fargo	ND	58078	701-281-0431
WJW Enterprises	980 9th Ave NE	West Fargo	ND	58078	701-281-1171

Name	Address	City	State	Zip Code	Telephone
Lesmeister Transportation Inc	2501 Lee Ave	Bismarck	ND	58503	701-258-9494
<b>Municipal Solid Waste Landfills</b>					
Bismarck, City of	601 South 26th St	Bismarck	ND	58501	701-222-6431
Dickinson, City of	99 2nd St E	Dickinson	ND	58601	701-264-7776
Grand Forks, City of	Public Works Dept 724 North 47th St	Grand Forks	ND	58203	701-746-2570
Fargo, City of	2301 8th Ave N	Fargo	ND	58102	701-241-1449
Jamestown, City of	102 3rd Ave SE	Jamestown	ND	58401	701-252-5223
<b>Equipment Vendors</b>					
Bandit Industries	6750 Millbrook Road	Remus	MI	49340	800-952-0178
DuraTech Industries	PO Box 1940	Jamestown	ND	58402	701-252-4601
Swanston Equipment	3450 West Main Ave	Fargo	ND	58102	701-293-7325
Theco Inc	5470 Quam Ave NE	St Michael	MN	55376	763-428-2260
Rotochopper Inc	217 W St	St Martin	MN	56376	320-548-3586
United Rental NW Inc (Morbark Rep)	3201 32nd St SW	Fargo	ND	58104	701-371-9788

**Disclaimer:** The Department encourages wood waste generators to investigate ways to reduce, reuse and/or recycle their wastes rather than dispose or burn the material. To assist in this effort, the Division maintains the attached list of wood processing and/or recycling facilities and equipment vendors as a service. The list may not represent all available services. In providing the list, the Division is not endorsing any specific facility or vendor or guaranteeing their compliance with applicable laws. The Division advises generators to evaluate the services and compliance status of any facility or vendor they use or plan to use to manage their wood wastes.