



# Department of Environmental Protection

**Jeb Bush**  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

**Colleen M. Castille**  
Secretary

## **PERMITTEE:**

Nassau County Board of County Commissioners  
96160 Nassau Place  
Yulee, Florida 32097

I.D. Number: 0890428  
Permit/Cert Number: 0890428-006-AC  
Date of Issue: September 19, 2006  
Expiration Date: March 31, 2007  
County: Nassau  
Latitude/Longitude: 30°36'12"N; 81°49'02"W  
UTM: E- (17) 421; N-3386.0  
Project: Gas Collection System

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-210, 62-212, 62-272, 62-296, 62-297 and 62-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

## **PROJECT**

This project is for the construction/installation of gas extraction wells with horizontal collectors that route the gas flow to one (1) existing candlestick flare that provides combustion of the landfill gas. This pertains to the Class I landfill. The Candlestick Flare is rated at a destruction efficiency of 98% (percent) for volatile organic compounds (VOC) and NMOC combustion and is sized for 2,000 standard cubic feet per minute (SCFM) flow volume. The purpose of the project defined in this permit increases the Landfill Gas (LFG) collection efficiency and minimizes the potential for off-site odors.

The proposed emission unit is subject to New Source Performance Standards (NSPS), Subpart WWW and National Emissions Standards for Hazardous Air Pollutants (NESHAP), Subpart AAAAA.

## **OPERATING LOCATION**

Located at 46026 Landfill Road, Callahan, Nassau County, Florida.

## **RELEVANT DOCUMENTS**

The documents listed below are the basis of the permit. They are specifically related to this permitting action. These documents are on file with the Department.

Application for an Air Permit received Mar 20, 2006  
Additional Information Received July 22, 2006

## **ATTACHMENTS**

Table 1: MONITORING REQUIREMENTS FOR MSW LANDFILLS  
Table 2: RECORDKEEPING REQUIREMENTS FOR MSW LANDFILLS  
Table 3: COMPLIANCE REPORTING REQUIREMENTS FOR MSW LANDFILLS

**PERMITTEE:**

Nassau County Board of County Commissioners  
96160 Nassau Place  
Yulee, Florida 32097

I.D. Number: 0890428  
Permit/Cert: 0890428-006-AC  
Date of Issue: September 19, 2006  
Expiration Date: March 31, 2007

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:
  - a. Have access to and copy any records that must be kept under the conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

**PERMITTEE:**

Nassau County Board of County Commissioners  
96160 Nassau Place  
Yulee, Florida 32097

I.D. Number: 0890428  
Permit/Cert: 0890428-006-AC  
Date of Issue: September 19, 2006  
Expiration Date: March 31, 2007

**GENERAL CONDITIONS:**

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages, which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- ☐ Determination of Best Available Control Technology (BACT)
- ☐ Determination of Prevention of Significant Deterioration (PSD)
- ☒ Compliance with New Source Performance Standards (NSPS)

**PERMITTEE:**

Nassau County Board of County Commissioners  
96160 Nassau Place  
Yulee, Florida 32097

I.D. Number: 0890428  
Permit/Cert: 0890428-006-AC  
Date of Issue: September 19, 2006  
Expiration Date: March 31, 2007

**GENERAL CONDITIONS:**

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
  - the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the dates analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used; and
  - the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

**PERMITTEE:**  
Nassau County Board of County Commissioners  
96160 Nassau Place  
Yulee, Florida 32097

I.D. Number: 0890428  
Permit/Cert: 0890428-006-AC  
Date of Issue: September 19, 2006  
Expiration Date: March 31, 2007

**SPECIFIC CONDITIONS:**

**ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS**

1. **Hours of Operation:** The hours of operation are not restricted, i.e. 24 H/D; 7 D/W; 52 W/Y, and 8760 Hours per year.  
[Rules 62-4.160(2), 62-210.200(PTE), F.A.C.]
2. **Method of Operation:** Emissions Unit No. 001 shall fire propane gas as its fuel.  
[Rules 62-4.160(2), 62-210.200(PTE), F.A.C.]
3. **Maximum Operation Rate:** The maximum operation rate is listed below and shall not be exceeded without prior department approval:
4. **Permitted Capacity.** The Maximum Process Throughput Rate (Flare Capacity) shall not exceed 2,000 SCFM flow volume.  
[Rules 62-4.160(2), and 62-210.200(PTE), F.A.C.]
5. **Method of Operation.** The landfill gas (LFG) collection system includes gas extraction wells and horizontal collectors of the landfill. Collected LFG is transported by a series of headers and lateral pipes to a blower/flare station where the gas is combusted by a candlestick flare.

**EMISSION LIMITATIONS AND PERFORMANCE STANDARDS**

6. **Visible Emissions:** Visible emissions from the utility flare shall be less than 20% opacity.  
[Rule 62-296.320(4)(b), f.a.c.]
7. **Flare Operation.** Permittee seeking to comply with §60.752(b)(2)(iii) using an open flare shall install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment:
  - a. A heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame.
8. **Circumvention.** The owner or operator shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly.  
[Rule 62-210.650, F.A.C.]
9. The Department shall be notified and prior approval shall be obtained of any modifications or revisions deviating from the permittee's application during this construction project.  
[Rules 62-4.030, 62-4.070(1), and 62-4.160(2), f.a.c.]

**Monitoring of Operations**

10. The monitoring of operations shall be conducted in accordance with table 1 in the attachments.  
[Rule 62-4.070(3), f.a.c.]
11. **General Visible Emissions Standard (Facility Wide):** No person shall cause, let, permit, suffer or allow to be discharge into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on Ringelmann Chart (20% opacity), except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit.  
[Rule 62-296.320(4)(b) 1., F.A.C.]

**PERMITTEE:**  
Nassau County Board of County Commissioners  
96160 Nassau Place  
Yulee, Florida 32097

I.D. Number: 0890428  
Permit/Cert: 0890428-006-AC  
Date of Issue: September 19, 2006  
Expiration Date: March 31, 2007

12. **Objectionable Odor Prohibited:** No person shall cause, suffer, allow or permit the discharge of air pollutants that cause or contribute to an objectionable odor. Objectionable odor, is an odor present in the outdoor atmosphere which by itself or by combination with other odors, is or maybe harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which create a nuisance.  
[Rule 62-296.320(2) and 62-210.200 (181), F.A.C.]
13. **Unconfined Particulate Matter (Facility Wide):** No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of material; construction, alteration, demolition or wrecking; or industrially activity such as loading, unloading, storing and handling; without taking reasonable precaution to prevent such emissions. Reasonable precautions may include but are not limited to the followings:
- a. Paving and maintenance of roads, parking areas and yards.
  - b. Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
  - c. Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
  - d. Removal of particulate matter from paved roads and/or other paved areas under the control of the owner or operator of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
  - e. Landscaping or planting of vegetation.
- [Rule 62-296.320(4)(c), F.A.C.]
14. **Excess Emissions:** In case of excess emissions resulting from malfunctions, the permittee shall notify the department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the department.  
[Rule 62-210.700(6), F.A.C.]

#### **COMPLIANCE MONITORING**

15. **Operating Rate During Testing:** Testing of emissions shall be conducted with the emissions unit operating at permitted capacity, which is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.  
[Rules 62-297.310(2) & (2)(b), F.A.C.]
16. **Compliance Test Notification:** At least 15 days prior to the date on which each formal compliance test is due to begin, the permittee shall provide written notification of the test to the Air Compliance Section of this Office. The notification must include the following information: the date, time, and location of each test; the name and telephone number of the facility's contact person who will be responsible for coordinating the test; and the name, company and telephone number of the person conducting the test.  
[Rule 62-297.310(7)(a) 9., F.A.C.]
17. **Special Compliance Tests:** When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.  
[Rule 62-297.310(7), F.A.C.]

**PERMITTEE:**  
Nassau County Board of County Commissioners  
96160 Nassau Place  
Yulee, Florida 32097

I.D. Number: 0890428  
Permit/Cert: 0890428-006-AC  
Date of Issue: September 19, 2006  
Expiration Date: March 31, 2007

18. **Accuracy of Equipment.** The permittee of an emissions unit for which compliance tests are required shall install, operate, maintain equipment and/or instruments necessary to determine process variables, such as process weight input or heat input, when such data is needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emissions limiting standards. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

[Rule 62-297.310(5)(a) & (b), F.A.C.]

19. **Operation-Problems:** If the permittee is temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by hazard of fire, wind or by other cause, the permittee shall immediately notify the department. Notification shall include pertinent information as to the cause of the problem, and what steps are being taken to correct the problem and to prevent its recurrence, and where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with department rules.

[Rule 62-4.130, F.A.C.]

#### **REPORTING AND RECORDKEEPING REQUIREMENTS**

20. **Records Keeping:** The owner or operator shall maintain records in accordance with table 2 of the attachment.

[Rule 62-4.160 (14)(b), F.A.C.]

21. **Compliance Report:** Reports of the required compliance tests shall be submitted in accordance with table 3 of the attachments.

[Rule 62-297.310(8)(b), F.A.C.]

#### **ADMINISTRATIVE:**

22. The I.D. No. and Project name for this source shall be used on all correspondence.
23. Any revision(s) to a permit (and application) must be submitted to the Department, in writing, and approved by the Department prior to implementation.
24. A completed **Application for Air Permit- Title V Source** [DEP Form No. 62-210.900(1), F.A.C.] shall be submitted to the Department at least 60 days prior to the expiration date of this operation permit. To properly apply for the operation permit renewal, the permittee shall submit the appropriate application form, processing fee, and compliance test reports as required by this permit.

[Rules 62-4.055 and 62-4.220, F.A.C.]

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



Christopher L. Kirts, P. E.  
District Air Program Administrator

**"FILED, on this date, pursuant to Section 120.52,  
F.S., with the designated Department Clerk,  
receipt of which is hereby acknowledged."**



**Date: September 19, 2006**

**PERMITTEE:**

Nassau County Board of County Commissioners  
96160 Nassau Place  
Yulee, Florida 32097

I.D. Number:	0890428
Permit/Cert:	0890428-006-AC
Date of Issue:	September 19, 2006
Expiration Date:	March 31, 2007