



Facility File
Sumter County
Sumter County Landfill
A

**APPLICATIONS FOR
PERMIT TO OPERATE COMPOSTING FACILITY
PERMIT TO CONSTRUCT LEACHATE TREATMENT FACILITY
PERMIT TO OPERATE RESOURCE RECOVERY FACILITY
WASTE TIRE GENERAL PERMIT
AND
PERMIT TO MAINTAIN CLOSED CLASS I SANITARY LANDFILL
PREPARED FOR**



**BOARD OF COUNTY COMMISSIONERS
DEPARTMENT OF PUBLIC WORKS
222 EAST McCOLLUM AVENUE
BUSHNELL, FLORIDA 33513**

4060C00092 W

MARCH 30, 1992

92-1100.00

Springstead Engineering, inc.

Consulting Engineers — Planners — Surveyors
727 South 14th Street
Leesburg, Florida 34748
Lake (904) 787-1414
Sumter (904) 793-3639 Fax (904) 787-7221

**APPLICATIONS FOR
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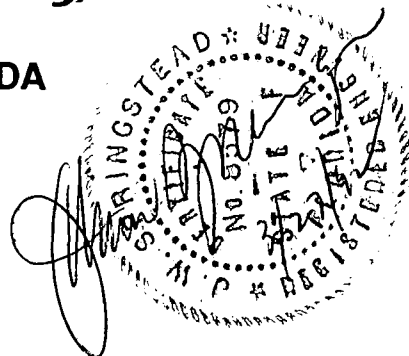


**Springstead
Engineering, Inc.**

LEESBURG, FLORIDA

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Fax (904) 787-7221

March 30, 1992

Mr. Kim Ford, P.E.
Florida Department of Environmental Regulation
Southwest District
4520 Oak Fair Boulevard
Tampa, Florida 33610-7347

Re: Sumter County Solid Waste Management Facility
SC60-123071
Class I Landfill (Closed)
SF60-146475
Sumterville, Florida

Dear Mr. Ford:

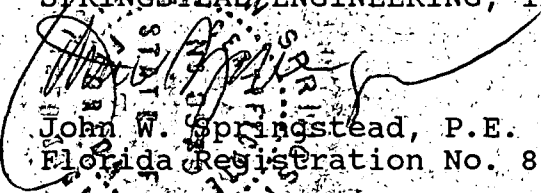
Enclosed, you will find the completed permit applications for the Sumter County Solid Waste Management Facility. The permit applications include the operation permits for the resource recovery and composting facility, the construction permit for a leachate treatment system, a general permit for storing waste tires and a long-term care permit for the closed Class I landfill.

The permits are presented in this volume with necessary supporting information presented in a separate Appendices volume.

We hope that this information satisfies your needs at the present time. If you have any questions or require additional information, please do not hesitate to contact us.

Very truly yours,

SPRINGSTEAD ENGINEERING, INC.


John W. Springstead, P.E.
Florida Registration No. 8579

JWS/DWS

Distribution of Reports:

FDER - 6 Copies

Sumter County Department of Public Works - 2 Copies

Springstead Engineering, Inc. - 2 Copies

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SECTION 1
INTRODUCTION AND SCOPE

PREPARED FOR



**BOARD OF COUNTY COMMISSIONERS
DEPARTMENT OF PUBLIC WORKS
222 EAST McCOLLUM AVENUE
BUSHNELL, FLORIDA 33513**

PREPARED BY



**Springstead
Engineering, inc.**

LEESBURG, FLORIDA

MARCH 30, 1992

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1.0 INTRODUCTION AND SCOPE

1.1 Purpose

This volume and the accompanying Appendix volume have been prepared under the direction of the Sumter County Board of County Commissioners - Department of Public Works. The purpose of this document is to submit completed permit applications to the Florida Department of Environmental Regulation (FDER) in order to renew the existing operation permits for the resource recovery facility, the composting facility and the long term care of the closed Class I landfill at the Sumter County Landfill - A Solid Waste Management Facility. In addition, completed permit applications are being submitted for a new general permit to store waste tires and for a construction permit to design and build a new leachate treatment system for the existing composting facility.

We request that the construction permit for the leachate treatment system be processed as expeditiously as possible. The construction and availability of this system will allow full utilization of all existing compost pad space providing the capability to compost all material received and begin reducing the volume of material stored in the Class I cell area.

1.2 Site Location

The subject facility is located approximately $\frac{1}{4}$ mile south of County Road 470 and approximately 1 mile east of Interstate Highway 75 in Sumterville, Sumter County, Florida (Section 15, Township 20 South, Range 22 East). The general site location is shown on the Site Location Map presented in Figure 1.

1.3 Status of County

Sumter County is a small, rural west central Florida county with a population of approximately 32,000. Sumter County is currently at the 10 mil cap for ad valorem taxes and has been for the past four years. The unemployment rate in the county is at 10.6% which is 2% above the state average. Resources are extremely limited. It is the county's intent through the completion of existing facilities and providing the additional improvements to provide cost effective and environmentally acceptable solid waste disposal for an extended period of time. With the help of state grants for solid waste management, Sumter County has been able to comply with state requirements concerning solid waste management. The existing solid waste facility would be adequate to provide solid waste disposal in the county if necessary pieces of equipment can be purchased and flow control for the resource recovery composting facility is implemented. Plans for the improvements are being considered and arrangements are being made to accomplish these improvements.

1.4 Site History

The solid waste facility site was originally permitted by FDER as a Class I landfill in 1975. As the landfill began to reach capacity and the State of Florida passed laws requiring recycling, the officials of Sumter County realized the need for a different approach to the county's methods of disposal of solid waste.

After reviewing the options which were available at the time for treating solid waste, Sumter County opted for the relatively new process of composting Class I solid waste along with a resource recovery facility which would separate out the recyclables. It was the county's intent to establish economically and environmentally

acceptable methods to handle solid waste. As the Class I landfill was being capped, the County was constructing one of the first resource recovery/solid waste composting facilities in the state. Sumter County began composting Class I solid waste in 1987. Since then, additional equipment such as balers and screens have been added to streamline the resource/recovery composting process.

Sumter County has purchased an additional 40 acres of property adjacent to the existing solid waste facility and is investigating the feasibility of expanding the facility onto this adjacent property located south of the existing facility. This would allow the county to provide a long term facility for solid waste disposal. The concept is to construct a structure in which to dry, screen and package graded compost, construct an additional composting pad to provide for additional capacity, and to construct a Class III solid waste landfill cell for disposal of inert materials.

1.5 Current Facility Status

1.51 General

The Sumter County Solid Waste Management Facility is the only public collection center for solid waste in the county. The location of the site is centrally located in the county to provide access to all residents of the county. The facility is open six days a week (Monday through Saturday) between the hours of 8:00 AM and 4:00 PM. The operation and maintenance of the facility is contracted out. Currently, Sumter County is engaged in a management contract with AMERICYCLE, The American Recycling Company, Inc., who have offices on county property located adjacent to the facility.

1.52 Operations

The solid waste enters the facility, is weighed, and directed to the resource recovery building or to the recycling area. Material directed to the resource recovery building is placed on the tipping floor in the building. It is then pushed onto a conveyor belt where the material is preshredded and then passed under a magnetic belt separator to remove ferrous items and then onto a sorting conveyor where aluminum, HDPE, PETE, OCC, nonferrous metals, etc., are removed by hand sorters. The material then goes into a double rotor flail mill where it is shredded, then conveyed into trucks for transportation to the composting pad. The material is formed into windrows, injected with a proprietary starter, and composted for approximately 60 days. When the compost is cured, it is passed through a screen to remove film plastics and other undesirables materials prior to grading. The graded compost is then marketed into several types of agricultural applications.

Recyclables including metals, plastics, glass, used oil, tires, batteries, and other items are segregated and placed in areas designated for each item. The recyclables are sold and removed by vendors.

Construction and demolition (C&D) debris are generally not received at the site. Any C&D received is segregated, loaded and hauled to an FDER approved disposal site.

No hazardous waste is accepted at the facility.

The facility processes, on average, about 60 tons of solid waste a day. While the resource recovery facility has a much greater capacity, to produce the quality of compost desired, the existing composting facilities are well suited for this process volume.

1.53 Waste Components

Based on information provided by AMERICYCLE, approximately 70% of the solid waste which enters the facility is eventually recycled. Of this 70%, approximately 10% of the incoming waste being is being sorted out and sold directly to recyclers and approximately 60% is shredded, allowed to compost and is ultimately sold. The remaining 30% is hauled to an approved FDER facility for disposal.

The Sumter County Solid Waste Facility also contains a permitted, lined, Class I solid waste cell. Currently this cell is not in use for Class I solid waste, but is being utilized for storage of shredded MSW prior to being composted. It is the county's intent that this area is to also be used for temporary contingency measures should the primary solid waste system for some reason be interrupted.

1.6 Permit Applications

Permit applications are being submitted to FDER as required to continue to operate the Sumter County Solid Waste Management Facility. The permits required were specified in a response letter from FDER to Springstead Engineering, Inc., dated February 20, 1992.

This document is structured so that the required permits, as numbered in the above referenced letter, coincide with the report section relating to the information requested in the permit. Because some of the permits request identical information, a compilation of Appendices has been included which contains the requested items.

The report section number and letter permit request correlation pertains to all required permits with exception of Number 1, the construction permit for the proposed expansion of the composting facilities. Sumter County is currently working to expand the facility. At this time the proposed expansion and funding is being planned. Materials and plans are being developed which will be submitted to FDER for conceptual review. The proposed time frame for these improvements to be constructed and operational is anticipated to be fiscal year 1994-95.

The permit application for the operation of the composting facility which will replace the related modification of permit SC60-132071 which expires June 1, 1992 is presented in Section 2.0 of this report. The necessary permit information is presented on the application as well as in the report. The numbered information presented in the report corresponds to the question number designated in the permit application. The operation permit application includes all existing composting facilities, even though the north and south pads are not currently in use (See Section 3.0).

Section 3.0 is the application for a permit to construct a leachate treatment system for the resource recovery and composting facility. It is important that this application be permitted immediately in order to provide full pad utilization as explained in the Section

1.1. As explained in Section 3.0, since there is no formal application specifically for construction of a leachate treatment system, an application to construct a domestic treatment system was utilized at the suggestion of FDER.

Section 4.0 presents the application for a permit to operate the existing resource recovery facilities used for segregating and shredding waste. Section 5.0 consists of the necessary information required in applying for general permit for storing waste tires.

Section 6.0 is the application for a long term care permit for the closed Class I landfill to replace permit SF60-146475. This permit addresses the continued groundwater monitoring and landfill maintenance. In addition, it is designed to identify findings or problems from the past monitoring and recommend changes or improvements which might be necessary.

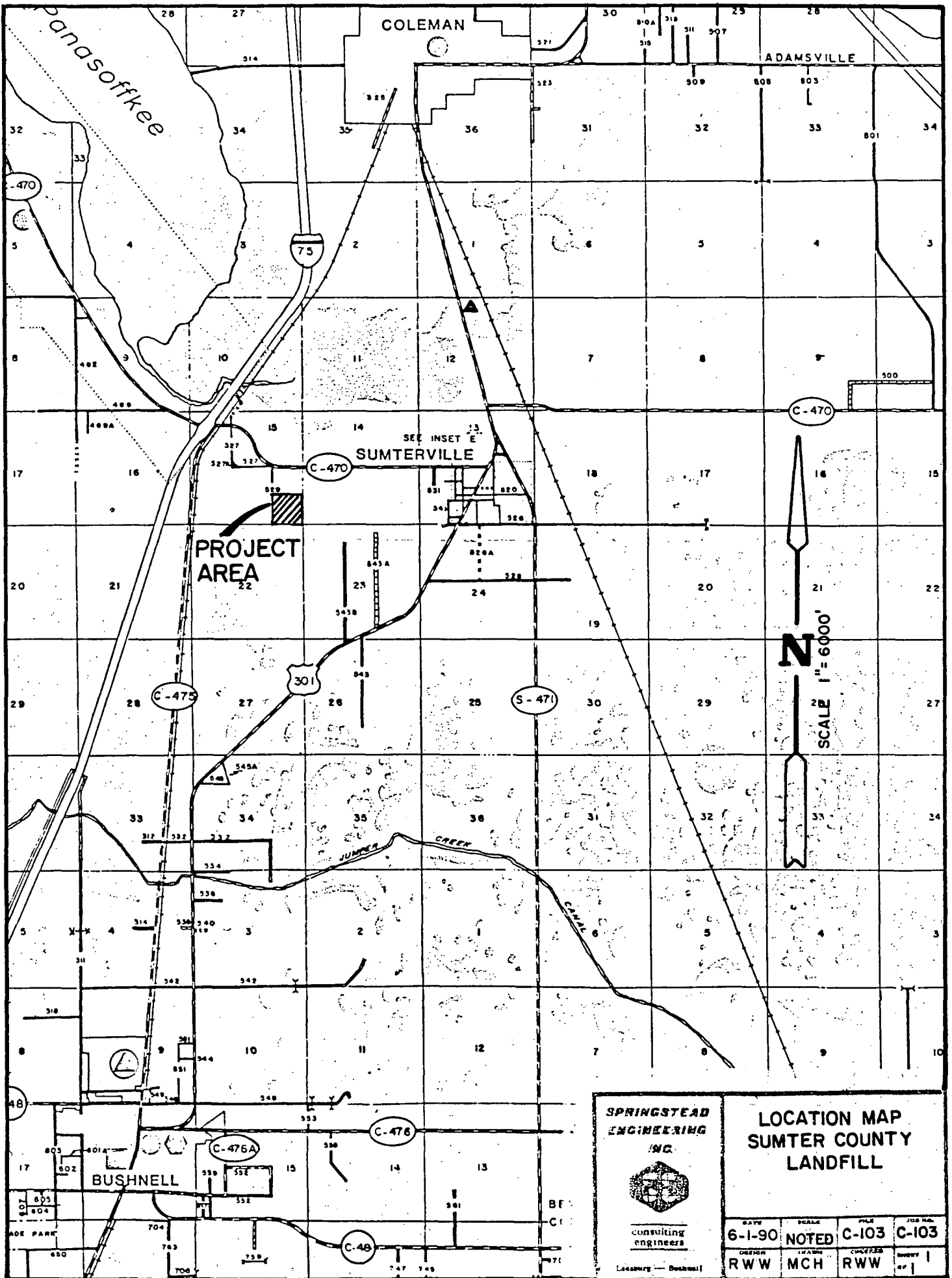
1.7 LINED CLASS I CELL

At this time, the Class I Solid Waste Cell contains waste which has been sorted and milled and is ready to be placed on the composting pad. The waste has not been placed on a pad because of an agreement between Sumter County and FDER that the two new composting pads not be put into service prior to a leachate treatment system being in place.

Presented in Section 3.0 of this report is the permit application to construct a leachate treatment facility for the three composting pads. Upon the permitting and construction of the system and the subsequent activation of the two nonoperating pads, the waste in the cell will be removed and composted. Due to the present lower-

than-average intake of waste at the facility, it is anticipated that the cell can be emptied in a timely manner. This is the primary plan for the removal of waste from the cell. In addition, when Sumter County gets the site permitted and begins the work on the adjacent property to the south, the planned additional composting pad will be used initially to expedite the emptying of the cell.

In the event that there is a delay in completing the treatment facility, or that improvements on the adjacent site do not occur, Sumter County will remove the material from the cell and have it hauled to other FDER approved facilities for disposal. The removal and hauling to other facilities is Sumter County's least desirable solution for emptying the cell and will not be considered until all other options have been exhausted.



**SPRINGSTEAD
ENGINEERING
INC.**



consulting
engineers

Leesburg — Bushnell

LOCATION MAP SUMTER COUNTY LANDFILL

DATE	SCALE	FILE	JOB NO.
6-1-90	NOTED	C-103	C-103
DESIGN	DRAWN	CHECKED	INVEST
RWW	MCH	RWW	1

SECTION 2
APPLICATION FOR
PERMIT TO OPERATE COMPOSTING FACILITY

PREPARED FOR



BOARD OF COUNTY COMMISSIONERS
DEPARTMENT OF PUBLIC WORKS
222 EAST McCOLLUM AVENUE
BUSHNELL, FLORIDA 33513

PREPARED BY



Springstead
Engineering, inc.

LEESBURG, FLORIDA

MARCH 30, 1992

92-1100.00



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form #	17-709.900(1)
As for a Permit to Construct/Operate	
Form Title A Solid Waste Man Fac. for the Prod. of Compost	
Effective Date	November 21, 1999
DER Application No.	(Filed in by DER)

Application for a Permit to Construct ☐ Operate ☒ A Solid Waste Management Facility for the Production of Compost

General Requirements

Solid Waste Management Facilities for the production of compost shall be permitted pursuant to Section 403.707, Florida Statutes, and in accordance with Rule 17-709, Florida Administrative Code. A minimum of six copies of the application shall be submitted to the Department District Office having jurisdiction over the facility. Complete appropriate sections for the type of facility for which application is made. Entries should be typed or printed in ink. All blanks should be filled in or marked not applicable. The application shall include all information, drawings, and reports necessary to evaluate the facility. Information required to support the application is listed on the attached pages of this form.

Facility Type: ☒ Existing ☐ Proposed

Materials Processed: ☒ Yard Trash ☐ Manure ☒ Other Solid Wastes ☐ Other Solid Wastes with Sludge

1. a. Facility Name: Sumter County Landfill

b. Facility Location (main entrance): Approximately 1 mile east of I-75 on C.R. 470

Section 15, Township 20S, Range 22E Latitude 28 ° 44 ' 30N " Longitude 82 ° 05 ' 20W "

Sumter County Board of County Commissioners
Department of Public Works

2. a. Applicant Name (operating authority):

b. Address: 222 East McCollum Avenue, Bushnell, Florida 33513

c. Contact Person: Garry Breeden, Director of Public Works (904) 793-0240

3. a. Authorized Agent/Consultant: Springstead Engineering, Inc. (904) 787-1414

b. Address: 727 South 14th Street, Leesburg, Florida 34748

c. Contact Person: John W. Springstead, P.E. (904) 787-1414

4. a. Landowner (if different than applicant): Same as applicant

b. Address: Same as applicant

5. Estimated Cost of Construction, Total: \$ N/A

6. Anticipated Construction Starting and Completion Dates From: N/A To: N/A

Required Attachments for Construction/Operation Permit for a Solid Waste Management Facility Producing Compost

General

Permit application and supporting information shall include the following (17-709.310(2), F.A.C.):

1. A letter of transmittal to the Department;
2. A table of contents listing the main section of the application
3. The permit fee specified in Florida Administrative Code Rule 17-4.05 in check or money order payable to the Department;
4. Six copies, at minimum, of the completed application form, all supporting data, and reports;
5. Engineer seal;
6. Engineer's letter of appointment if applicable;
7. Copy of any lease agreement, or any other agreement between operator and property owner by which the closing of the facility may be affected; and
8. Proof of publication of notice of application for the proposed activity in a newspaper of general circulation.

Completeness
Check

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

Specific Attachment Item

The following information items must be included in the application. Please explain if they are not applicable.

NOTE: For facilities that have been satisfactorily constructed in accordance with their construction permit, the information required does not have to be resubmitted for an operation permit if the information has not changed during the construction period.

1. Facility Design (17-709.500, F.A.C.):

NOTE: All maps, plan sheets, drawings, or aerial photographs shall be legible; be signed and sealed by the registered professional engineer responsible for their preparation; be of appropriate scale to show clearly all required details; be numbered, referenced to narrative, titled, have a legend of symbols used, contain horizontal and vertical scales (where applicable), and specify drafting or origination dates; and use uniform scales as much as possible, contain a north arrow, and use NGVD for all elevations.

- a. A map or aerial photograph of the area, no more than 1 year old, unless not substantially changed from older map or photograph, showing land use and zoning within 1 mile of the facility: (17-709.500(2)(a), F.A.C.)
- b. Site Plan (17-709.500(2)(b), F.A.C.)

NOTE: The site plan shall be on a scale not greater than 200 feet to the inch showing the following:

- (1) Dimensions of the site
- (2) Plan for receiving, processing, production, curing (if any) and storage areas
- (3) Fencing or other measures to restrict access

c. Topographic Maps (17-709.500(2)(c), F.A.C.)

NOTE: The topographic maps, which may be combined with the plot plan (item 1b), on a scale not greater than 200 feet to the inch showing the following:

- (1) Five foot contour intervals
- (2) Access roads
- (3) Grades required for proper drainage
- (4) Special drainage devices
- (5) Other pertinent information based on intended use of facility

d. Report (17-709.500(2)(d), F.A.C.)

- (1) Designed capacity of the proposed facility
- (2) Anticipated type and source of solid waste
- (3) Any additives to be used in the production of compost

XX

XX

XX

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XX

Compost Facility Data Form

Permit No.: SC60-132071 Issue Date: 7/10/1987 Expires: 6/1/1992
 Facility No. (DER identification): 4060C00092

DER Action: ☐ Add ☐ Delete ☐ Change ☐ Deactivate Site ☐ Other

1. County Sumter		2. Facility Name Sumter County Solid Waste Management Facility	
3. Date Form Completed 3/27/1992		4. Facility Address West C.R. 470	
4a. Facility Phone Number (904) 793-3368		4b. Facility Site Supervisor Ric Gray (Amerecycle)	
5. Facility Type <input checked="" type="checkbox"/> Composting <input type="checkbox"/> In-vessel <input type="checkbox"/> Static Pile <input checked="" type="checkbox"/> Windrow <input type="checkbox"/> Other Describe _____			
6. Month/Year Begun 10/1988		7. Area within Site Boundary 30 Acres	
		8. Area within Property Boundary 30 Acres	
9. Security to Prevent Unauthorized Use <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		10. Weighing Scales <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
11. Waste Processed Per Operational Day 60 tons			
12. Maximum Processing Rate 25 tons/hour			
13. Charge/ton \$35.00		14. Days Operated S M T W T F S	
		15. Hours/Day Operated 8.0	
16. Types of Waste Received <input checked="" type="checkbox"/> Residential <input checked="" type="checkbox"/> Commercial <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Agricultural <input type="checkbox"/> Septic Tank <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Yard Trash <input type="checkbox"/> Sewage Sludge <input checked="" type="checkbox"/> Other Institutional			
17. Leachate Recycled <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		17a. Treatment Method Used See Applicate for Leachate Treatment Fac.	
17b. Discharges to: <input type="checkbox"/> Surface Waters <input checked="" type="checkbox"/> Underground		17c. Class Receiving Water G-II	
18. Final Residue is 30 % of waste intake		18a. Residue is disposed of at (site name) FDER site	
19. Surface Runoff Collected <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		19a. Type of Runoff Treatment Leachate & Stormwater	
		19b. Class of Receiving Waters G-II	
20. Number of Staff Varies		21. Attendant <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
22. Name and Title of Person Completing Form John W. Springstead, P.E., Consultant			

Note: All blanks for the numbered items must be filled or marked as not applicable.

Certification by Applicant and Engineer or Public Officer

A. Applicant

The undersigned applicant or authorized representative of the Sumter County Board of County Commissioners is aware that statements made in this form and attached information are an application for a Solid Waste Management Facility for the Production of Compost Permit from the Florida Department of Environmental Regulation and certifies that the information in this application is true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403, Florida Statutes, and all rules and regulations of the Department. It is understood that the Permit is not transferable, and, the Department will be notified prior to the sale or legal transfer of the permitted facility.


 Signature of Applicant or Agent

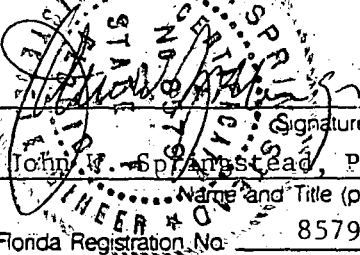
Tom Dixon, Chairman, Board of Sumter County
 Name and Title Commissioners

Date: 3-28-92

Attach letter of authorization if agent is not a governmental official, owner, or corporate officer

B. Professional Engineer Registered in Florida or Public Officer as Required in Section 403.707 and 403.7075, Florida Statutes

This is to certify that the engineering features of this solid waste management facility have been designed/examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgement, this facility, when properly maintained and operated, will comply with all applicable statutes of the State of Florida and rules of the Department. It is agreed that the undersigned will provide the applicant with a set of instructions of proper maintenance and operation of the facility


 Signature
John W. Sprangstead, P.E., Consultant
 Name and Title (please type)
 Florida Registration No. 8579

727 South 14th Street
 Mailing Address

Leesburg, Florida 34748

City, State, Zip Code

Telephone No. (904) 787-1414

(please affix seal)

(please affix seal)

Date: 3/30/92

Construction Cost Estimate: N/A

Permit Number: _____

Issue Date: _____

Review Date: _____

Expiration Date: _____

APPLICATION FOR A PERMIT
TO OPERATE
A SOLID WASTE MANAGEMENT FACILITY
FOR THE PRODUCTION OF COMPOST
SUMTER COUNTY SOLID WASTE MANAGEMENT FACILITY
SUMTER COUNTY, FLORIDA
92-1100.00

SPECIFIC ATTACHMENT ITEM

1. FACILITY DESIGN

a. Zoning Map

A recently revised map of the area showing use and zoning within one (1) mile of facility is presented in Appendix A.

b. Site Plan

A site plan presented in Appendix B shows the following:

- (1) Dimensions of site;
- (2) Plan for receiving, processing, production curing and storage areas;
- (3) Fencing or other measures to restrict access.

c. Topographic maps

A topographic map prepared from a recent aerial photograph was prepared and is enclosed in Appendix

C. The topographic map shows the following:

- (1) One (1) foot contour intervals;
- (2) Access roads;
- (3) Grades required for proper drainage;
- (4) Special drainage devices;
- (5) Other pertinent information based on intended use of the facility.

d. Report

(1) Design capacity of the facility

The design capacity of the facility is sixty (60) tons per day.

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SUMTER COUNTY SOLID WASTE MANAGEMENT FACILITY
SUMTER COUNTY, FLORIDA
92-1100.00

(2) Anticipated type and source of solid waste

Sumter County contracted with TIA Solid Waste Management Consultants to conduct a study of the composition of the county's municipal solid waste. The results of the study were submitted to the Sumter County Board of County Commissioners in a report titled Sumter County Waste Composition Study - January 1991

Table 3-5 of the above report identified the types and percentages of waste as follows:

1.	Newsprint	7.9
2.	Fine Paper	4.2
3.	Misc. Paper	9.0
4.	Corrugated	8.7
5.	Plastic Film	4.4
6.	Plastic (PET)	0.8
7.	Plastic (HDPE)	0.5
8.	Plastic (BOT)	1.4
9.	Plastic (Other)	3.8
10.	Textiles	1.5
11.	Yard Waste	13.8
12.	Food Waste	5.4
13.	Wood Lumber	0.5
14.	Glass	4.1
15.	Rubber	0.4
16.	Steel Cans	3.1

APPLICATION FOR A PERMIT
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SUMTER COUNTY SOLID WASTE MANAGEMENT FACILITY
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17. Other Ferrous	0.5
18. Non-Ferrous (Aluminum)	0.5
19. OBW	0.0
20. Construction	15.6
21. Sweepings	0.0
22. Other	14.0

Also, footnote 3 in Table 3-5 indicate the source of waste as follows:

1. Residential	54%
2. Commercial / Industrial	43%
3. Institutional	3%.

(3) Any additives to be used in the production of compost

The only additive is B.D. Compost Starter manufactured by the Pfeiffer Foundation, Inc., Spring Valley, New York. Sumter County has been assured that there are no pathogens in the compost starter and that it is considered innocuous. Refer to the letter enclosed in Appendix D.

2. FACILITY PERFORMANCE AND DESIGN STANDARDS

a. Support for Operation

(1) Material Type (soil, synthetic, other)

The composting pads are constructed of asphalt.

**APPLICATION FOR A PERMIT
TO OPERATE
A SOLID WASTE MANAGEMENT FACILITY
FOR THE PRODUCTION OF COMPOST
SUMTER COUNTY SOLID WASTE MANAGEMENT FACILITY
SUMTER COUNTY, FLORIDA
92-1100.00**

(2) Adequate base support

The underlying materials provide adequate base support at locations built on undisturbed soils. Portions of the facility built upon former fill areas require periodic grade adjustments to maintain proper drainage.

b. Leachate control and removal system performance

See attached application for permit to construct leachate treatment facility.

c. Stormwater management system performance

(1) Prevention of surface water flowing into receiving, processing and curing areas

Controls are in place to prevent surface water from flowing onto the composting pads.

(2) Stormwater run-off control; retention, detention ponds

Stormwater run-off at the site is collected and directed to the retention area located in the northeast corner of the thirty (3) acre site.

(3) Equivalency to design standards

The facility is operating under an approved Southwest Florida Water Management District Management of Surface Water Permit.

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- (4) Design to minimize ponding of solid waste, composting material and finished product
Surface of the composting areas are sloped such that surface flow on the composting pads is directed to the leachate ponds. Composting pads constructed on former fill areas may require periodic grad adjustments to prevent ponding.

(5) Water management district approval

A General Management of Surface Water Permit No. 402092.03 was granted Composting Facility Site Improvements on June 13, 1991. The expiration date of this permit is June 13, 1994. A copy of the permit is enclosed in Appendix E.

3. OPERATIONAL FEATURES AND APPURTENANCES

a. Effective barrier

The entire solid waste complex is surrounded by fencing, with entry being controlled by locking gates. See the Site Plan enclosed in Appendix B.

b. All weather access road

Roads that provide access between public roads or highways and the Sumter County Landfill are maintained so as to be passable in ordinary inclement weather. It is necessary that patron be able to enter the site and dispose of solid waste in all sorts of weather. The access road between C.R. 470

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is paved with asphaltic concrete. See Photograph No. 1 in Appendix F.

- c. Signs indicating name of operating authority, traffic flow, hours of operation, contact in cases of emergencies and charges (if any)

A sign indicating the name of the facility and operator is located on C.R. 470 and is shown in Photograph No. 2. Numerous instructional signs pertaining to traffic flow are erected at the facility. Photograph No. 3 shows the signs visible to patrons approaching the scales. Photograph No. 4 shows signs visible on approach the building housing the resource recovery facility. Photograph No. 5 shows signs directing traffic back to the scales and out of the facility. Photograph No. 6 shows the signs on the locking gate to the facility indicating the hours of daily operation, indicating that the facility is closed on Sundays, That solid waste transported from outside Sumter County is not permitted and that Hazardous materials are accepted. Photograph No. 7 shows the sign located at the scale house indicating the solid waste rate schedule.

- d. Scales

Weigh scales are provided at the entrance to the solid waste complex. Measurement of all refuse received at the facility provides data for planning,

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forecasting and a basis for establishment of fees. Photograph No. 8 shows the inside of the scale house.

e. Dust control method

Due to recycling of leachate, dust is not expected to be a problem at the facility. However, suitable measures will be taken whenever dust is a problem. Excessive dust slows operations, creates accident hazards and esthetic problems and may cause eye irritation or other injury and health problems to personnel. See Photograph No. 9.

f. Litter control devices

Blowing litter at the resource recovery / volume reduction facility is a problem; however, blowing litter is a problem when the entire solid waste complex is considered. Blowing litter is controlled by fencing. The solid waste complex is regularly policed to minimize the scattering of litter.

g. Fire protection and control provisions

Suitable measures will be taken to prevent and control fires. Fires endanger life and property. Smoke and odors create nuisances to surrounding property owners, cause air pollution, endanger disposal personnel and interfere with operations. An adequate supply of water under pressure is available in the facility. Suitable fire extingui-

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ishers, maintained in working order, are located at several strategic locations in and around the facility. The Lake Panasoffkee (telephone (904) 793-2621) is located approximately three (3) miles distant. A volume gun is used in the leachate recycling and may be used for fire fighting.

- h. **Odor control devices, methods or practices**
There will be odors in the vicinity of the solid waste. Some people will find them objectionable. There is no realistic method of preventing the odors in the areas near the solid waste. Proper operation of all aspects of the solid waste management facility of which the composting facility is part will minimize odors.

4. **ADDITIONAL OPERATIONAL CRITERIA**

a. **Attendant**

An attendant is on duty during operating hours at the scale house and is shown in Photograph No. 10. Tipping floor personnel are on duty during operating hours to help with unloading operations and inspect the solid waste stream.

- b. **Communication devices**
Communication is provided at the facility by telephones, two-way radios, direct voice communication and hand signals.

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5. OPERATIONS PLAN

a. Designation of responsible persons

Mr. Garry Breeden, Director of Public Works
222 East McCollom Avenue
Bushnell, Florida 33513

b. Proposed equipment

Milled material is mixed, turned and placed in windrows by a Scarab. A Scarab is a self-propelled machine specially designed to accomplish this procedure. The Scarab presently located at the Sumter County Landfill (a solid waste management facility) is shown in Photograph No. 11.

c. Contingency operations

The solid waste management facility is owned by Sumter County. The county can utilize equipment and personnel resources in the event of an emergency, such as fire or equipment failure.

d. Controlling the type of waste received at the site

Other than lead batteries, and used motor oil, Sumter County does not accept hazardous waste. It is recognized that items may be included in the waste stream that should not be processed through the facility. There is no feasible way to prevent the introduction of these materials into the facility. After segregation, bins are provided for storage of items until proper disposal is accomplished. Sumter County will remove or not accept

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easily identifiable hazardous waste. Personnel are to read and become familiar with the Hazardous Waste Information for Sumter County Landfill Operations Personnel supplement in Sumter County Solid Waste Facility Operational Guidelines (November 3, 1988). A copy of the supplement is enclosed in Appendix G.

Incoming solid waste will be inspected at four points as follows:

1. The attendant at the scale house looks at all incoming waste loads. The scale house attendant takes the following actions in the event that hazardous waste is identified:
 - a. Tells the person hauling the waste that the waste is hazardous and that it will not be accepted by the facility;
 - b. Insures that the waste leaves the facility with the hauler.
2. Tipping floor personnel are notified by the scale house attendant of the presence of hazardous waste. The notified personnel will observe the dumping of the load and insure that the hazardous waste is not dumped. Tipping floor personnel will

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insure that the hazardous waste is on the vehicle when it leaves the tipping floor and insure that the vehicle precedes directly to the scale house.

3. The scale house attendant will insure that the hazardous waste is on the vehicle when it leaves the site.
4. The attendant responsible for inspecting solid waste as it leaves the dumping pit on the conveyor belt will visually inspect for hazardous waste. If the source of the hazardous waste can be identified, responsible parties will be notified and required to remove the hazardous waste from the facility. If the source of the hazardous waste cannot be identified, it will be separated and placed in bins located inside the building. Sumter County will contract with a commercial enterprise to provide pickup and removal of any hazardous waste within 72 hours or transport the material to a hazardous waste disposal facility.

A tank located inside the facility is provided for the collection of used motor oil. Pickup of the used motor oil is done by National Oil Company, 105 South Alexander Street, Plant City, Florida 33566.

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Photograph No. 12 shows the tank used for used oil collection.

Lead batteries are palletized for collection by All American Recycling, P.O. Box 1556, Ocala, Florida 32678. Photograph No. 13 shows the lead batteries stored on pallets for pickup.

e. Weighing incoming waste

Provisions exist for measuring all solid waste delivered to the facility for processing. Weigh scales are provided. Measurement of all refuse received at the facility provides data for planning, forecasting and a basis for establishment of fees.

f. Vehicle traffic control and unloading

Signs direct commercial and non-commercial patrons to the proper entrances to the facility. Photograph No. 4 shows the sign directing commercial hauler to the north end of the building. Also, a sign is shown directing haulers of construction debris, white goods and stumps to the proper location. Assistance is provided for unloading due to the ongoing inspections of the solid waste stream at the facility.

g. Method and sequence of processing waste

The milled material from the volume reduction facility is either temporarily stored or placed on

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the composting pads. The composting procedure is started by injecting B.D Compost Starter during the initial turning, mixing and placement of the milled material into windrows.

h. Operations of leachate and stormwater controls

See the attached Application for Permit to Construct a Leachate Treatment Facility.

i. Designation of backup disposal site(s)

Backup disposal sites include, but is not limited to, the Lake County Incinerator, located in Okahumpka, Florida.

6. WATER QUALITY STANDARDS

See the attached Application for Permit to Construct a Leachate Treatment Facility.

7. COMPOST FACILITY DATA FORM

Completed Facility Data Form is page 4 of 5 of the application for permit.

8. CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICIAL

Certifications by Applicant and Engineer or Public Officer is page 5 of 5 of the application for permit.

SECTION 3
APPLICATION FOR
PERMIT TO CONSTRUCT LEACHATE TREATMENT FACILITY

PREPARED FOR



BOARD OF COUNTY COMMISSIONERS
DEPARTMENT OF PUBLIC WORKS
222 EAST McCOLLUM AVENUE
BUSHNELL, FLORIDA 33513

PREPARED BY



Springstead
Engineering, inc.

LEESBURG, FLORIDA

MARCH 30, 1992

92-1100.00

3.0 APPLICATION FOR A CONSTRUCTION PERMIT FOR PROPOSED LEACHATE TREATMENT FACILITY

3.1 General

This application is for the permitting of the design and construction of a leachate treatment system which will function in conjunction with the existing composting operations at the Sumter County Solid Waste Facility. As shown in other sections of this report, the site currently has three (3) composting pads with a leachate collection system for each pad. The pads and ponds are generally located at the north, center and south of the existing facility. The center pad was the initial facility constructed in 1986 with the north and south pads being added in 1991.

The composting pads are not covered, consequently leading to precipitation contacting the pad and compost. Regulations require that precipitation contacting the pad and/or compost be treated as leachate. The leachate collection ponds were designed to hold a total volume equal to the volume of a 100-year, 24-hour storm over the entire compost pad leachate pond area (10.7 inches of rain times the total pad/pond area). Presently, only the center composting pad and pond are in use as a result of leachate build-up in the pond.

3.2 Background

Upon initially constructing the center composting pad, a low volume pilot treatment plant for treating and disposing the leachate was permitted by FDER for a period of 1-year. Before the results of the pilot operation were verified, the test plant was taken off line and replaced with a system which could treat a larger volume of leachate in order to empty the leachate pond.

The larger system combined micron filtration, ozonation, activated carbon adsorption and ultraviolet sterilization for the treatment of the leachate. Subsequent O & M problems significantly reduced the systems treatment capacity resulting in the search for an alternate treatment system which would be able to treat the leachate generated by the 3 composting pads. Because such a treatment system is not currently in place, Sumter County and FDER have agreed not to operate the north and south compost pads.

3.3 Proposed System for Leachate Treatment

The proposed system for the leachate treatment incorporates two commonly used methods for leachate treatment. The system is designed to treat the total volume of leachate which would be produced during a 100-year, 24-hour storm in the required time period of three weeks. The treatment would be performed using the processes of reapplication of the leachate to the composting pads and through an extended aeration package sewage treatment plant.

The reapplication treatment will incorporate a new flow equalization basin which will collect leachate pumped from the 3 ponds associated with the compost pads. The leachate will be pumped back to the composting pads through a distribution system designed to regulate the location of the reapplication. That is, the piping will have valves which can be operated to direct the leachate to pads or areas of pads which may require moisture or to prevent the spraying of leachate on compost which is being harvested.

In conjunction with the reapplication, an extended aeration sewage treatment plant will also collect leachate from the flow equalization basin and perform treatment to meet the requirements

set forth by FDER for treated leachate. The treatment plant will be sized to handle a maximum capacity of 100,000 gallons per day which will satisfy the 3 week criteria.

The effluent consisting of treated stormwater-leachate will be routed as stormwater to the existing stormwater retention area for percolation into the ground.

A schematic diagram showing the piping network, the associated pumps, the flow equalization basin and the sewage treatment plant locations are shown in Figure 3-1. A schematic of the treatment plant is presented in Figures 3-2 and 3-3.

The combination of treatment through reapplication, evaporation and treatment through the plant will provide sufficient capacity to treat the required volume of leachate from the three existing compost pads in the specified period of time.

According to representatives of FDER, there is no specific permit application to complete for the construction of a leachate treatment facility. It has been recommended that the guidelines of the permit application to construct a domestic wastewater facility be followed in order for a complete application be submitted, therefore, the following is the application permit for the leachate treatment system prepared using the format of DER Form 17-600.910(1).

APPLICATION FOR PERMIT TO CONSTRUCT A COMPOST LEACHATE TREATMENT FACILITY

PART II - General Information

1) Application Type:

Construction of a new treatment and disposal system

2) This application is for the modification of an existing Solid Waste Facility, GMS ID No: 4060C00092

3) Project/Facility name:

Sumter County Landfill - A Solid Waste Management Facility
West CR 470
Sumterville 33585 Sumter County, Florida
Lat. 28-44-30 N Long. 82-05-20 W S 15 T 20S R 22E
Telephone No. 904-793-3368

4) Applicant/Responsible Authority:

Sumter County Commission - Department of Public Works
Director - Mr. Garry Breedon
222 East McCollum Avenue
Bushnell, Florida 33513
Telephone No. 904-793-0240

5) Applicant/Responsible Authority is a County (C)

6) General Project Description, reason needed, and relationship to existing facilities:

The project consists of the design and construction of a leachate treatment system for an existing Class I resource recovery and composting facility. The leachate treatment system is needed to treat the stormwater-leachate which accumulates in the compost leachate collection ponds after a rainfall in the required time period. The treatment system will be designed to treat and dispose of leachate collected in the existing ponds.

7) Anticipated Start of Construction:

Upon receipt of permit and bidding of project; Projected 9/92

8) Current DER permits include:

Permit No:	Type:	Issued:	Expires:
SC60-132071	Volume Reduction, Composting, and Class I Landfill	7/10/87	6/1/92

9) Effluent disposal system will consist of discharge to on-site stormwater percolation pond

10) Reclaimed water is not produced by this facility

PART III - Treatment System Data

1) Treatment Facility name:

Sumter County Landfill - A Solid Waste Management Facility

2) Location:

West CR 470
Sumterville 33585 Sumter County, Florida
Lat. 28-44-30 N Long. 82-05-20 W S 15 T 20S R 22E
Telephone No. 904-793-3368

3) The treatment system does not serve an area in a county regulated by the Public Service Commission.

4) Design Capacity:

Current permitted capacity	= 0.0 mgd
Proposed design capacity	= <u>0.1 mgd</u>
Total design capacity	= 0.1 mgd

Basis of design flow:

Flow required to meet FDER's time requirement for emptying leachate ponds.

- 5) Treatment level to be provided: (As per specific condition No.43 in current FDER Operating Permit)

PARAMETER	CONCENTRATION	UNIT
Flow	-	gpd
pH	6.5 - 8.5	std. units
SS	20	mg/L
BOD ₅	20	mg/L
COD	Acceptable BOD ₅ : COD ratio	-
Nitrate as N	12	mg/L
Fecal Coliform	N.D.	#/100 ml

- 6) Disinfection Level: Low level
- 7) pH range: 6.5 minimum to 8.5 maximum
- 8) Class of reliability provided:
- 9) Residual disposal will consist of remixing residuals with curing compost.

Part IV - Reuse/Disposal System Data

- A. Discharge to surface waters: Not applicable to this project
- B. Discharge to surface waters-wetlands: Not applicable to this project
- C. Discharge to surface waters-ocean outfall: Not applicable to this project
- D. Reuse of reclaimed water and land application: Not applicable to this project
- E. Ground water disposal by underground injection: Not applicable to this project

F. 1.) Effluent disposal will consist of groundwater disposal through a stormwater retention area located on-site. The effluent will flow through a swale around the closed Class I landfill and into the water retention area located at the northeast corner of the site.

2.) Lat. 28-44-30 N; Long. 82-05-20 W; S 15 T 20S R 22E

3.) Design Flow:

Current permitted capacity	= 0.0 mgd
Proposed design capacity	= <u>0.1 mgd</u>
Total design capacity	= 0.1 mgd

Basis of design flow:

Flow required to meet FDER's time requirement for emptying the existing leachate ponds.

G. Total reuse/disposal capacity:

Current permitted capacity	= 0.0 mgd
Proposed design capacity	= <u>0.1 mgd</u>
Total design capacity	= 0.1 mgd

Note: Recycling of leachate to compost pads will occur simultaneously with STP treatment; volume of treated

effluent will be reduced by volume lost to evaporation during recycling.

H. Antidegradation requirements:

1.) This project does not include a new surface water discharge.

2.) This project does not include an expansion of an existing surface water discharge.

Part V - Certifications

A. Applicant

I certify that the statements made in this application for a construction permit are true, correct and complete to the best of my knowledge and belief. I agree to retain the design engineer, or another professional engineer registered in Florida, to conduct on-site observation of construction, to prepare a certification of completion of construction, and to review record drawings for adequacy as referenced in Rule 17-600.730(4), F.A.C. Further, I agree to provide an appropriate operation and maintenance manual for the facilities pursuant to Rule 17-600.720, F.A.C., and to retain a professional engineer registered in Florida to examine (or to prepare if desired) the manual.

Date: 3-28-92 _____

 Signature of the Applicant

Phone: (904) 793-0200 _____

 Name and Title (please type)

B. Professional Engineer Registered in Florida (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this construction project have been (designed) (examined) by me and found to conform to engineering principles applicable to such projects. In my professional judgment this facility, when properly constructed, operated and maintained, will comply with all applicable statutes of the State of Florida and rules of the Department. I will provide the applicant with instructions for proper operation and maintenance of the facility.

 Signature of Engineer

JOHN W. SPRINGSTEAD, P.E. 8579
 Name (Please type) Florida Registration No.

SPRINGSTEAD ENGINEERING, INC.
 Company Name

727 S. 14th STREET
 Company Address

LEESBURG, FLORIDA 34748

Date: 3/30/92 Telephone No. (904) 787-1414

C. Professional Engineer Registered in Florida (where required by Chapter 471, F.S.) and if different from project design engineer in B.

I certify that this firm or individual has been retained by the applicant to prepare a certification of completion of construction and to review record drawings for adequacy as referenced in Rules 17-600.717 and 17-600.730(4), F.A.C.

 Signature of Engineer

 Name (Please type) Florida Registration No.

 Company Name

 Company Address

 Date: _____ Telephone No. (_____) _____

(Affix Seal)

SECTION 4
APPLICATION FOR
PERMIT TO OPERATE RESOURCE RECOVERY FACILITY

PREPARED FOR



BOARD OF COUNTY COMMISSIONERS
DEPARTMENT OF PUBLIC WORKS
222 EAST McCOLLUM AVENUE
BUSHNELL, FLORIDA 33513

PREPARED BY



Springstead
Engineering, inc.

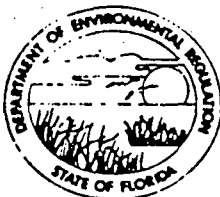
LEESBURG, FLORIDA

MARCH 30, 1992

92-1100.00

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

APPLICATION FOR PERMIT TO CONSTRUCT ☐
OPERATE ☒

A SOLID WASTE RESOURCE RECOVERY AND MANAGEMENT FACILITY

GENERAL REQUIREMENTS

Solid Waste Resource Recovery and Management Facilities shall be permitted pursuant to Section 403.707, Florida Statutes, and in accordance with Florida Administrative Code Rule 17-7. A minimum of six copies of the application shall be submitted to the Department District Office having jurisdiction over the facility. Complete appropriate sections for the type of facility for which application is made. Entries should be typed or printed in ink. All blanks should be filled in or marked not applicable. The application shall include all information, drawings, and reports necessary to evaluate the facility. Information required to support the application is listed on the attached pages of this form.

Facility Type: Existing ☒ Proposed ☐

Sanitary Landfill:

- ☒ Class I,
☐ Class II,
☐ Class III: Trash/yard Trash
☐ Class III: Yard Trash Composting

Volume Reduction:

- ☐ Composting
☒ Shredder
☐ Incinerator/Trench Burner
☒ Resource Recovery:
☐ Energy ☒ Materials

Sludge Landspreading:

- ☐ Grade I
☐ Grade II
☐ Grade III
☐ Septage/Food Service

FACILITY NAME: Sumter County Solid Waste Management Facility / 4060C00092
DER ID Number

FACILITY LOCATION (main entrance): Approximately 1 mile east of I-75 on C.R. 470

S 15 section, T 20S township, R 22E range / Latitude 28° 44' 30N Longitude 82° 05' 20W

Applicant Name (operating authority): Sumter County Board of County Commissioners

Street Address & P. O. Box: 222 East McCollum Avenue, Bushnell, Sumter Co., Florida 33513
City County Zip

Contact Person: Garry Breeden, Director of Public Works (904) 793-0240
Name Phone Number

Authorized Agent/Consultant: Springstead Engineering, Inc. (904) 787-1414
Name Phone Number

Contact Person: John W. Springstead, P.E. (904) 787-1414
Name Street P. O. Box Phone Number

Leesburg, Lake County, Florida 34748
City County State Zip

Landowner (if different than applicant): Same as applicant

Address of Landowner: Same as applicant
Street, P. O. Box City State Zip

Cities, Towns and Areas to be Served: Sumter County, Florida

Current and Projected Population to Served: 1990 - pop. 31,577, 2000 - est. pop. 38,400

Acres within Waste Site Boundary: 30 Acres within Property Boundary: 30

Protecting Florida and Your Quality of Life

Volume of Solid Waste to be received: 60 ~~tons/day~~ ~~tons/day~~ ~~tons/day~~
Date Site Ready to Receive Solid Waste: 10/1988 Estimated Life of Facility 50+ years
Estimated Cost of Construction, Total: \$ N/A Estimated cost of Closing: \$ N/A
Anticipated Construction Starting and Completion Dates
From: N/A To: N/A

REQUIRED ATTACHEMENTS FOR CONSTRUCTION/OPERATION PERMIT
FOR A RESOURCE RECOVERY AND MANAGEMENT FACILITY

GENERAL

Permit application and supporting information shall include the following (17-7.030(2), F.A.C.):

Completeness Check

1. A letter of transmittal to the Department; (17-7.030(3)(a) F.A.C.)
2. A table of contents listing the main sections of the application; (17-7.030(3)(b), F.A.C.)
3. The permit fee specified in Florida Administrative Code Rule 17-4.05 in check or money order payable to the Department; (17-7.030(3)(c), F.A.C.)
4. Six copies, at minimum, of the completed application form, all supporting data, and reports; (17-7.030(2), F.A.C.)
5. Engineer seal; (17-7.030(2)(d), F.A.C.)
6. Engineer's letter of appointment if applicable; (17-7.030(3)(e), F.A.C.)
7. Copy of any lease agreement, transfer of property agreement with right of entry for long-term care, or any other agreement between operator and property owner by which the closing and long-term care of the facility may be affected; (17-7.030(3)(h))
8. Proof of publication of notice of application for the proposed activity in a newspaper of general circulation; (17-7.03(4), F.A.C.)

SPECIFICATION ATTACHMENT ITEMS

The following information items must be included in the application or an explanation given if they are not applicable.

Construction Permits:

- A. Landfills - Submit items 1, 2, 3, 4, 5, 6, 7, 8, 10.
- B. Volume Reduction - Submit items 1, 2, 3, 4, 5, 6, 7, 9, 10.
- C. Sludge Landspreading - Submit items 2, 3, 4, 5, 6, 8, 10.

Operation Permits:

- A. Landfills - All the items above.
- B. Volume Reduction - All the items above.
- C. Sludge Landspreading - All the items above.

NOTE: For facilities that have been satisfactorily constructed in accordance with their construction permit the information required for A, B, and C type facilities does not have to be resubmitted for an operation permit if the information has not changed during the construction period.

1. A foundation analysis (17-7.050(2)(b), F.A.C.)
2. Evidence that the facility is in conformance with local zoning (17-7.050(2)(c)4, F.A.C.)
3. Facility Design (17-7.050(3), F.A.C.):

NOTE: All maps, plan sheets, drawings, isometrics, cross-sections, or aerial photographs shall be legible; be signed and sealed by the registered professional engineer responsible for their preparation; be of appropriate scale to show clearly all required details; be numbered, referenced to narrative, titled, have a legend of symbols used, contain horizontal and vertical scales (where applicable), and specify drafting or origination dates; and use uniform scales as much as possible, contain a north arrow, and use NGVD for all elevations.

- Completeness Check
- a. A map or aerial photograph of the area, no more than 1 year old, showing land use and zoning within 1 mile of the facility. (17-7.050(3)(a), F.A.C.) XX
- b. Plot Plan (17-7.050(3)(b), F.A.C.) XX
- NOTE: The plot plan on a scale not greater than 200 feet to the inch showing the following:
- (1) Dimensions and Legal Description of the site XX
 - (2) Location and depth (NGVD) of soil borings XX
 - (3) Plan for trenching or disposal areas N/A
 - (4) Fencing or other measures to restrict access XX
 - (5) Cross sections showing both original and proposed fill elevations N/A
 - (6) Location, depth, and construction details of monitoring wells N/A
- c. Topographic Maps (17-7.050(3)(c), F.A.C.) XX
- NOTE: The topographic maps, which may be combined with the plot plan (item 4b), on a scale not greater than 200 feet to the inch showing the following:
- (1) Five foot contour intervals one foot contours XX
 - (2) Proposed fill areas XX
 - (3) Borrow areas N/A
 - (4) Access roads XX
 - (5) Grades required for proper drainage XX
 - (6) Typical cross sections of disposal site including lifts, borrow areas and drainage controls N/A
 - (7) Special drainage devices N/A
 - (8) Fencing XX
 - (9) Equipment facilities XX
 - (10) Other pertinent information based on intended use of facility XX
- d. Report (17-7.050(3)(d), F.A.C.)
- (1) Estimated population and area served by the proposed site with basis for the estimate XX
 - (2) Anticipated type, annual quantity, and source of solid waste XX
 - (3) Anticipated life of site XX
 - (4) Source and characteristics of cover material N/A
- e. Ground Water Monitoring Plan (17-7.050(3)(e), F.A.C.)
- (1) Plan and hydrogeological survey, including foundation analysis, in accordance with 17-4.245(6), 17-7.030, and 17-7.050 F.A.C.; or N/A
 - (2) A copy of a Department letter of approval of a previously submitted plan, if applicable. XX

4. Landfill Performance and Design Standards (17-7.050(4), F.A.C.)

Completeness Check

- | | |
|---|-----|
| a. Liner performance (17-7.050(4)(a)(b), F.A.C.) | N/A |
| (1) Material type (soil, synthetic, other) | N/A |
| (2) Adequate base support | N/A |
| (3) Planned installation adequate to cover all surrounding earth | N/A |
| (4) Equivalency to design standards | N/A |
| b. Liner quality control plan (17-7.050(4)(c), F.A.C.) | N/A |
| (1) Specifications | N/A |
| (2) Construction/installation methods | N/A |
| (3) Sampling and testing | N/A |
| (4) Manufacturer's specifications and recommendations | N/A |
| c. Leachate control and removal system performance (17-7.050(4)(e), F.A.C.) | N/A |
| (1) Construction materials | N/A |
| (2) Strength and thickness | N/A |
| (3) Measures to prevent clogging | N/A |
| (4) Central collection point for treatment and disposal | N/A |
| (5) Leachate depth not to exceed one foot | N/A |
| (6) Equivalency to design standards | N/A |
| d. Surface water management system performance (17-7.050(4)(g), F.A.C.) | N/A |
| (1) Prevention of surface water flow onto waste-filled areas | N/A |
| (2) Stormwater run-off controls; retention, detention ponds | N/A |
| (3) Equivalency to design standards | N/A |
| (4) Water management district approval | N/A |
| e. Gas control system performance (17-7.050(4)(i), F.A.C.) | N/A |
| (1) Prevention of methane migration | N/A |
| (2) Prevention of damage to vegetation | N/A |
| (3) Prevention of objectionable odors off site | N/A |
| (4) Equivalency to design standards | N/A |

5. Operations Plan (17-7.050(5)(b),(c)(d) & (e), F.A.C.)

- | | |
|---|----|
| a. Designation of responsible person(s) | XX |
| b. Contingency operations | XX |
| c. Controlling the type of waste received at the site | XX |

	<u>Completeness Check</u>
d. Weighing or measuring incoming waste	<u>XX</u>
e. Vehicle traffic control and unloading	<u>XX</u>
f. Method and sequence of filling waste	<u>N/A</u>
g. Waste compaction and application of cover	<u>N/A</u>
h. Operations of gas, leachate, and storm water controls	<u>XX</u>
i. Ground water monitoring	<u>XX</u>
j. All weather access roads	<u>XX</u>
k. Effective barrier	<u>XX</u>
l. Signs indicating name of operating authority, traffic flow, hours of operation, and charges for disposal (if any)	<u>XX</u>
m. Dust control methods	<u>XX</u>
n. Litter control devices	<u>XX</u>
o. Fire protection and fire fighting facilities	<u>XX</u>
p. Attendant	<u>XX</u>
q. Communication facilities	<u>XX</u>
r. Adequate in-service and reserve equipment	<u>XX</u>
s. Safety devices on equipment to shield and protect operators	<u>XX</u>
6. <u>Water Quality Standards (17-7.050(5)(g) & (h), F.A.C.)</u>	<u>XX</u>
Describe how surface runoff and leachate will be handled to meet water quality standards of Florida Administrative Code Rules 17-3 and 17-4.	<u>XX</u>
7. <u>Closure (17-7.070(2), F.A.C.)</u>	
a. <u>Closure plan (17-7.073, F.A.C.)</u>	<u>N/A</u>
(1) Design	<u>N/A</u>
(2) Final use	<u>N/A</u>
(3) Closure operations	<u>N/A</u>
(4) Post-closure (17-7.075, F.A.C.)	<u>N/A</u>
(5) Financial responsibility (17-7.071, F.A.C.)	<u>N/A</u>
b. <u>Closure plan schedule (17-7.071, F.A.C.)</u>	<u>N/A</u>
8. <u>Solid Waste Disposal Facility Data Form</u>	<u>N/A</u>
9. <u>Solid Waste-Volume Reduction and Resource Recovery Facility Data Form</u>	<u>XX</u>
10. <u>Certification by Applicant and Engineer or Public Officer</u>	<u>XX</u>

SOLID WASTE VOLUME REDUCTION AND RESOURCE RECOVERY FACILITY DATA FORM

Permit No.: SC60-132071 Issue Date: 7/10/1987 Expires: 6/1/1992
Facility No. (DER Identification): 4060C00092

DER ACTION: ☐ Add ☐ Delete ☐ Change ☐ Deactivate Site ☐ Other


1. County <u>Sumter</u>		2. Site Name <u>Sumter County Solid Waste Management Facility</u>	
3. Date Form Completed <u>3/27/1992</u>		4. Facility Address <u>West C.R. 470</u>	
4a. Facility Phone No. <u>(904) 793-3368</u>		4b. Facility Site Supervisor <u>Ric Gray - Amerecycle</u>	
5a. <u>28° 44' 30" N</u> <u>82° 05' 20" W</u> Latitude Longitude		5b. <u>25</u> <u>20S</u> <u>22E</u> Township Range Section	
6. Operating Authority Name <u>Dept. of Pub. Works</u> <u>Sumter Co. Bld. of Co. Commissioners</u>		8. Operating Authority Address <u>222 East McCollum Avenue</u> <u>Bushnell, Florida 33513</u>	
7. Phone Number <u>(904) 793-0240</u>			
9. Owner of Site Property (if different from Operator) <u>Same as operator</u>		11. Address of Owner <u>Same as operator</u>	
10. Phone Number of Owner <u>Same as operator</u>			
12. Facility Type (check one or more) <input type="checkbox"/> Incinerator Only <input type="checkbox"/> Biomass Gas Production <input type="checkbox"/> Pyrolysis <input type="checkbox"/> Other: <input type="checkbox"/> Sludge Concentration <input type="checkbox"/> Baler (compactor) <input checked="" type="checkbox"/> Composting Plant <input type="checkbox"/> Transfer Station <input type="checkbox"/> Waterwall Incinerator <input checked="" type="checkbox"/> Shredder (pulverizer)			
13. Month/Year Begun <u>10/1988</u>		14. Disposal Area <u>N/A</u> Acres	
15. Population Served <u>1990 - pop. 31,577</u>			
16. Expected Useful Lifetime <u>50+</u> Years		17. Weighing Scales <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
18. Waste Processed Per Operational Day <u>60</u> tons/gal/yr			
19. Charge/ton <u>\$35.00</u>		20. Days Operated <u>S M T W T F S</u>	
21. Hours/Day Operated <u>8.0</u>			
22. Maximum Processing Rate <u>25 tons/hour</u> tons/day			
23. Material Recovered, Tons/Week <u>XX</u> Paper <u>XX</u> Glass Other: <u>XX</u> Ferrous Metals <u>XX</u> Non-Ferrous Metals <u>XX</u> Aluminum <u>XX</u> Plastics			
24. Energy Recovery, in units shown <u>N/A</u> <u>High Pressure Steam-lb/hr</u> <u>Chilled Water-gal/hr</u> <u>Gas-ft³/hr</u> <u>Low Pressure Steam-lb/hr</u> <u>Oil-gal/hr</u> <u>Gas-BTU/hr</u> <u>Electricity-kw/hr</u> <u>Oil-BTU/hr</u> Other:			
25. Process Water Recycled <input type="checkbox"/> Yes <input type="checkbox"/> No		Treatment Method Used	
Discharged to: <input type="checkbox"/> Surface Waters <input checked="" type="checkbox"/> Underground		<u>G-II</u> Class Receiving Water	
26. Final Residue is <u>30</u> % of waste intake		Residue is disposed of at (Site Name) <u>EDER site</u>	
27. Supplementary Fuel Used <u>N/A</u>			
Type <u>N/A</u>		Quantity Used/Hour <u>N/A</u>	
28. Estimated Operating Costs Material - Energy Revenue \$ <u>N/A</u>		Total Cost/Ton \$ <u>N/A</u> Net Cost/Ton \$ <u>N/A</u>	
29. Number of Staff <u>Varies</u>		30. State Pollution Control Bond Financing Amount \$ <u>N/A</u>	
		31. Estimated Amount of Tax Exemptions that will be Requested \$ <u>N/A</u>	
32. Name and Title of Person Completing Form <u>John W. Springstead, P.E., Consultant</u>			

Note: All blanks must be filled or marked as not applicable.

CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

A. Applicant

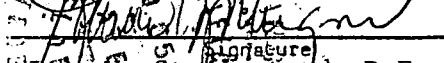
The undersigned applicant or authorized representative of Sumter Co. Brd. of Co. Comm. is aware that statements made in this form and attached information are an application for a Solid Waste Resource Recovery and Management Facility Permit from the Florida Department of Environmental Regulation and certifies that the information in this application is true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403, Florida Statutes, and all rules and regulations of the Department. It is understood that the Permit is not transferable, and, the Department will be notified prior to the sale or legal transfer of the permitted facility.


 Signature of Applicant or Agent
Tom Dixon, Chairman, Board of Sumter County Commissioners
 Name and Title
 Date: 3-28-97

Attach letter of authorization if agent is not a governmental official, owner, or corporate officer.

B. Professional Engineer Registered in Florida or Public Officer as Required in Section 403.707 and 403.7075, Florida Statutes

This is to certify that the engineering features of this resource recovery and management facility have been designed/examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgement, this facility, when properly maintained and operated, will comply with all applicable statutes of the State of Florida and rules of the Department. It is agreed that the undersigned will provide the applicant with a set of instructions of proper maintenance and operation of the facility.


 Signature
John W. Springstead, P.E., Consultant
 Name and Title (please type)
727 South 14th Street
 Mailing Address
Leesburg, Florida 34748
 City, State, Zip Code
(904) 787-1414
 Telephone Number
3/30/97
 Date
8549
 Florida Registration Number
 (please affix seal)

Construction Cost Estimate: N/A

Permit Number: _____ Issue Date: _____
 Review Date: _____ Expiration Date: _____

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SPECIFIC ATTACHMENT ITEMS

1. FOUNDATION ANALYSIS

Standard Penetration Test Borings (ASTM D 1586) made in the area of the Solid Waste Recovery Facility Building indicated that the soil at the then proposed construction site were suitable for bearing the building. A copy of the boring logs and a map showing the locations of the borings are enclosed in Appendix H. The controlling factor in a building of this design is uplift. This means the foundations have two functions: provide bearing for the building loads and act as anchors during periods of high winds. The building is still standing.

2. EVIDENCE THAT FACILITY IS IN CONFORMANCE WITH LOCAL ZONING

The Sumter County Planning and Zoning Department was contacted regarding the zoning of the facility. The current zoning is INDUSTRIAL DISTRICT as is all adjacent property. Sumter County is currently in a transition period due to the recent adoption of Sumter County Comprehensive Plan, 1991 - 2001, adopted by the Sumter County Board of County Commissioners on February 3, 1992. The facility will be permitted or authorized in the under the Comprehensive Plan, regardless the facility is vested. Map VII-19 titled Future Land Use, Sumter County, 2001 in the Comprehensive Plan, presented in Appendix I, shows an area encompassing the present facility and areas in Sections 22 and 23 slated for set

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aside for industrial uses. These areas are slated for expansion of the facility.

3. FACILITY DESIGN

a. Map or Aerial Photograph

A map was prepared and updated as part of this application process. The map showing land use and zoning within one (1) mile of the facility is presented in Appendix A.

b. and c. Plot Plan

Maps showing plot plan and topographic information (information requested in 4.c.) based on a recent aerial photograph are presented in Appendix B and Appendix C. The map shows:

- (1) Dimensions and legal description of the site;
- (2) Fencing at the facility to restrict access;
- (3) Access roads;
- (4) Grades required for proper drainage;
- (5) Special drainage devices;
- (6) Equipment facilities;
- (7) Other pertinent information.

The map is enclosed in Appendix B.

d. Report

(1) Estimated population and area served

Estimated population The 1990 Census as reported in Florida Statistical Abstract 1991 showed that the population of Sumter County was 31,577. The medium (population) projection for Sumter County for the year 2000 was

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38,400. This information was reported in Florida Statistical Abstract 1991 with the source being given as University of Florida, Bureau of Economic and Business Research, Population Program, Population Studies, July 1991, Volume 24, No. 2. Bulletin No. 96. The medium projection is defined as the one that is believed most likely to provide an accurate forecast of future population. The high and low projections given with the above data were 44,600 and 33,000, respectively.

The facility services all of Sumter County. The area of Sumter County was reported to be 561 square miles in Florida Statistical Abstract 1991.

(2) Anticipated type annual quantity and source of solid waste

Sumter County contracted with TIA Solid Waste Management Consultants to conduct a study of the composition of the county's municipal solid waste. The results of the study were submitted to the Sumter County Board of County Commissioners in a report titled Sumter County Waste Composition Study - January 1991

Table 3-5 of the above report identified the types and percentages of waste as follows:

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1.	Newsprint	7.9%
2.	Fine Paper	4.2%
3.	Misc. Paper	9.0%
4.	Corrugated	8.7%
5.	Plastic Film	4.4%
6.	Plastic (PET)	0.8%
7.	Plastic (HDPE)	0.5%
8.	Plastic (BOT)	1.4%
9.	Plastic (Other)	3.8%
10.	Textiles	1.5%
11.	Yard Waste	13.8%
12.	Food Waste	5.4%
13.	Wood Lumber	0.5%
14.	Glass	4.1%
15.	Rubber	0.4%
16.	Steel Cans	3.1%
17.	Other Ferrous	0.5%
18.	Non-Ferrous (Aluminum)	0.5%
19.	OBW	0.0%
20.	Construction	15.6%
21.	Sweepings	0.0%
22.	Other	14.0%

Also, footnote 3 in Table 3-5 indicated the source of waste as follows:

1.	Residential	54%
2.	Commercial / Industrial	43%
3.	Institutional	3%.

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Annual quantity of solid waste to be processed is expected to range from 11,000 tons to 22,000 tons.

(3) Anticipated life of the site

The anticipated life of the site is 50+ years.

(4) Source and characteristics of cover material

This does not apply for this facility.

e. Groundwater Monitoring Plan

The groundwater is monitored at the Sumter County Landfill, a solid waste management facility of which the resource recovery facility is a part. A copy of a letter from State of Florida Department of Environmental Regulation dated March 22, 1985 pertaining to the establishment of the Ground Water Monitoring Plan at the Sumter County Landfill is presented in Appendix J. The letter listed the conditions that were to become a part of Permit No. S060-30674.

4. LANDFILL PERFORMANCE AND DESIGN STANDARDS

This does not apply for this facility.

5. OPERATIONS PLAN

a. Designation of responsible persons

Mr. Garry Breeden, Director of Public Works
222 East McCollom Avenue
Bushnell, Florida 33513

b. Contingency operations

The resource recovery facility is owned by Sumter County. The county can utilize equipment and

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personnel resources in the event of an emergency, such as fire or equipment failure.

- c. Controlling the type of waste received at the site
- Other than lead batteries, and used motor oil, Sumter County does not accept hazardous waste. It is recognized that items may be included in the waste stream that should not be processed through the facility. There is no feasible way to prevent the introduction of these materials into the facility. After segregation, bins are provided for storage of items until proper disposal is accomplished. Sumter County will remove or not accept easily identifiable hazardous waste. Personnel are to read and become familiar with the Hazardous Waste Information for Sumter County Landfill Operations Personnel supplement in Sumter County Solid Waste Facility Operational Guidelines (November 3, 1988). See Appendix G.

Incoming solid waste will be inspected at four points as follows:

1. The attendant at the scale house looks at all incoming waste loads. The scale house attendant takes the following actions in the event that hazardous waste is identified:
 - a. Tells the person hauling the waste that the waste is hazardous and that

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it will not be accepted by the facility;

- b. Insures that the waste leaves the facility with the hauler.
2. Tipping floor personnel are notified by the scale house attendant of the presence of hazardous waste. The notified personnel will observe the dumping of the load and insure that the hazardous waste is not dumped. Tipping floor personnel will insure that the hazardous waste is on the vehicle when it leaves the tipping floor and insure that the vehicle precedes directly to the scale house.
3. The scale house attendant will insure that the hazardous waste is on the vehicle when it leaves the site.
4. The attendant responsible for inspecting solid waste as it leaves the dumping pit on the conveyor belt will visually inspect for hazardous waste. If the source of the hazardous waste can be identified, responsible parties will be notified and required to remove the hazardous waste from the facility. If the source of the hazardous waste cannot be identified, it will be separated and placed in bins located inside the building. Sumter

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County will contract with a commercial enterprise to provide pickup and removal of any hazardous waste within 72 hours or transport the material to a hazardous waste disposal facility.

A tank located inside the facility is provided for the collection of used motor oil. Pickup of the used motor oil is done by National Oil Company, 105 South Alexander Street, Plant City, Florida 33566. Photograph No. 12 in Appendix F shows the tank used for used oil collection.

Lead batteries are palletized for collection by All American Recycling, P.O. Box 1556, Ocala, Florida 32678. Photograph No. 13 shows the lead batteries stored on pallets for pickup.

d. Weighing or measuring incoming waste

Provisions exist for measuring all solid waste delivered to the facility for processing. Weigh scales are provided. Measurement of all refuse received at the facility provides data for planning, forecasting and a basis for establishment of fees.

e. Vehicle traffic control and unloading

Signs direct commercial and non-commercial patrons to the proper entrances to the facility. Photograph No. 4 shows the sign directing commercial hauler to the north end of the building. Also, a

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sign is shown directing haulers of construction debris, white goods and stumps to the proper location. Assistance is provided for unloading due to the ongoing inspections of the solid waste stream at the facility.

f. Method and sequence of filling waste

This does not apply for this facility.

g. Waste compaction and application of cover

This does not apply for this facility.

h. Operations of gas, leachate, and stormwater controls

(1) Control of gas

The possible buildup of gases inside the resource recovery building is controlled by use of explosion-proof exhaust fans.

(2) Control of leachate

Fluids emanating from solid waste of water that has previously been in contact with the solid waste is by definition leachate. The tipping floor is sloped toward four receptacles. Any leachate flowing into the pits is pumped into a concrete above ground storage tank located on the west side of the building. It is then transported by truck and dumped into the leachate treatment system.

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(3) Control of Stormwater

Stormwater is collected and directed to the stormwater retention pond located in the northeast corner of the 30 acres.

i. Groundwater monitoring

Groundwater monitoring is accomplished in accordance with the approved Groundwater Monitoring Plan, dated June 14, 1984. The letter of approval from Florida Department of Environmental Regulation dated March 22, 1985 is presented in Appendix J.

j. All weather access roads

Roads that provide access between public roads or highways and the Sumter County Landfill are maintained so as to be passable in ordinary inclement weather. It is necessary that patrons of the Sumter County Landfill shall be able to enter the site and dispose of solid waste in all sorts of weather. The access road between C.R. 470 is paved with asphaltic concrete. See Photograph No. 1.

k. Effective barrier

The Sumter County Landfill is surrounded by fencing, with entry being controlled by locking gates. See the Site Plan enclosed in Appendix B.

l. Signs indicating name of operating authority, traffic flow, hours of operation, and charges for disposal (if any)

A sign indicating the name of the facility and operator is located on C.R. 470 and is shown in

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Photograph No. 2. Numerous instructional signs pertaining to traffic flow are erected at the facility. Photograph No. 3 shows the signs visible to patrons approaching the scales. Photograph No. 4 shows signs visible on approach the building housing the resource recovery facility. Photograph No. 5 shows signs directing traffic back to the scales and out of the facility. Photograph No. 6 shows the signs on the locking gate to the facility indicating the hours of daily operation, indicating that the facility is closed on Sundays, That solid waste transported from outside Sumter County is not permitted and that Hazardous materials are accepted. Photograph No. 7 shows the sign located at the scale house indicating the solid waste rate schedule.

m. Dust control methods

Dust is not expected to be a problem at the Sumter County Landfill. However, suitable measures will be taken whenever dust is a problem. Excessive dust slows operations, creates accident hazards and esthetic problems and may cause eye irritation or other injury and health problems to personnel. Dust is controlled by ventilation and water jets at the mills.

n. Litter control devices

Blowing litter is a problem; however, blowing litter is a problem when the entire solid waste

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management facility is considered. Blowing litter is controlled by fencing. The solid waste complex is regularly policed to minimize the scattering of litter.

o. Fire protection and fire fighting facilities

Suitable measures will be taken to prevent and control fires. Fires endanger life and property. Smoke and odors create nuisances to surrounding property owners, cause air pollution, endanger disposal personnel and interfere with operations. An adequate supply of water under pressure is available in the facility. Suitable fire extinguishers, maintained in working order, are located at several strategic locations in and around the facility. The Lake Panasoffkee Fire Department (telephone (904) 793-2621) is located approximately three (3) miles distant.

p. Attendant

An attendant is on duty during operating hours at the scale house and is shown in Photograph No. 10. Tipping floor personnel are on duty during operating hours to help with unloading operations and inspect the solid waste stream.

q. Communication facilities

Communication is provided at the facility by telephones, two-way radios and direct voice communication.

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r. Adequate in-service and reserve equipment

Adequate in-service equipment is located in the facility. Additional equipment is located at the solid waste management facility. Additional county owned equipment may be transported to the site in case of emergencies or breakdowns.

s. Safety devices on equipment to shield and protect operators

All personnel are equipped with safety devices such as:

1. Hard hats;
2. Steel-toed boots;
3. Safety eyeglasses or face shields; and
4. Hearing protection.

Additional safety equipment such as shields on the equipment, eye washing stations and first aid kits are provided in the facility.

6. WATER QUALITY STANDARDS

See leachate control and treatment

7. CLOSURE

This does not apply for this facility.

8. SOLID WASTE DISPOSAL FACILITY DATA FORM

This form is not required for a resource recovery facility operation permit application.

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9. SOLID WASTE-VOLUME REDUCTION AND RESOURCE RECOVERY
FACILITY DATA FORM

Completed Solid Waste-Volume Reduction and Resource
Recovery Facility Data Form is page 9 of 10 of the
application for permit.

10. CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER
Certifications by Applicant and Engineer or Public
Officer is page 10 of 10 of the application for permit.

SECTION 5
APPLICATION FOR
WASTE TIRE GENERAL PERMIT

PREPARED FOR



BOARD OF COUNTY COMMISSIONERS
DEPARTMENT OF PUBLIC WORKS
222 EAST McCOLLUM AVENUE
BUSHNELL, FLORIDA 33513

PREPARED BY



Springstead
Engineering, inc.

LEESBURG, FLORIDA

MARCH 30, 1992

92-1100.00



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-711.900(2)
Form Title <u>Waste Tire General Permit Notification</u>
Effective Date <u>February 22, 1989</u>
DER Application No. _____ (Filed in by DER)

Waste Tire General Permit Notification

Pursuant to Rule 17-711.801, Florida Administrative Code, the owners or operators of a qualifying waste tire collection center or small processing facility or mobile shredding, chopping, or cutting equipment shall submit the following information on this form to the Department.

1. Type and status of operation (check as many as apply):

Existing ☐ Proposed ☒

- ☒ Waste tire collection center ☐ Mobile shredding, chopping, or cutting equipment
☐ Small processing facility ☐ Other

2. Waste tire collection centers and small processing facilities must complete the following facility information:

a. Facility name: Sumter County Solid Waste Management Facility

b. Facility location: Approximately 1 mile east of I-75 on C.R. 470

Street address (main entrance) West C.R. 470

City Sumterville, County Sumter, Zip 33585

Section 15, Township 20S, Range 22E

Latitude 28°44'30"N, Longitude 82°05'20"W

c. Name of property owner: Sumter Co. Brd. of Co. Comm., Dept of Public Works

d. Address of property owner: 222 East McCollum Avenue

City Bushnell, State Florida, Zip 33513

e. Telephone number of property owner: (904) -793-0240

3. Name of operator: Same as owner

4. Address of operator: Same as owner

City Same, State Same, Zip Same

5. Telephone number of operator: (Same) Same

6. Describe the general operation of the facility or equipment (attach additional sheets, if necessary): Collects waste tires from the citizens of Sumter County for temporary storage and transportation to FDER permitted processing facilities.

7. Describe how the waste tire storage and handling requirements of Rule 17-711.540, F.A.C. will be met (attach additional sheets, if necessary):

See attaches pages

DER Form 17-711.900(2)
Form Title <u>Waste Tire General Permit Notification</u>
Effective Date <u>February 22, 1988</u>
DER Application No. _____ (Filed in by DER)

8. Date of beginning operation: Contingent on permit

9. Quantities of waste tires, expressed in tons (assume there are 100 tires per ton or 10 tires per cubic yard):

Received per month: 2 tons (expected)
 Stored on site: 9.99 tons (To be less than 10 tons)
 Processed per month: 0 tons

10. Describe how and where the waste tires, processed tires, and residuals from processing will be disposed:

Transported to processing facility for conversion to fuel products

11. List mobile shredding, chopping, and cutting equipment processing locations during preceeding three months (Photocopies of Form 17-711.900(3) for each processing site may be attached in lieu of listing each site). Attach additional sheets, if necessary:

Name of facility or site: N/A

Site Location (main entrance)

Street address: _____

City _____ County _____ Zip _____

Latitude _____, Longitude _____

Site property owner: _____

Property owner address: _____

Property owner phone number: (_____) _____

12. Required attachments:

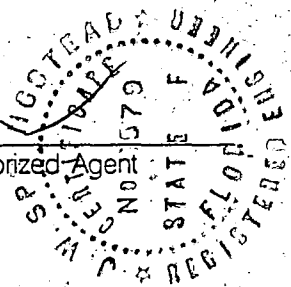
- Letter of notification to fire protection authority
- General permit fee of \$25.00. (Rule 17-4, F.A.C.)

13. Certification:

To the best of my knowledge and belief, I certify the information provided in this notification is true, accurate, and correct.

John W. Springstead P.E.
 Name of Authorized Agent

[Signature]
 Signature of Authorized Agent



3/30/92
 Date

Mobile Equipment Operators mail completed form to:
 Florida Department of Environmental Regulation
 Solid Waste Section
 Attention: Tires
 2600 Blair Stone Road
 Tallahassee, Florida 32399-2400

Collection Centers and Small Processing Facilities
 mail completed form to
 the appropriate district office
 listed on page 1.

WASTE TIRE
GENERAL PERMIT NOTIFICATION
AT
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7. Describe how waste tire storage and handling requirements of Rule 17-711.540 F.A.C. will be met.

1. Neither waste tires nor processed tires are stored indoors at the Sumter County Landfill. Should indoor storage become a reality waste tire and process tire storage shall be under conditions that meet those in The Standard for Storage of Rubber Tires, NFPA 231D-1986 edition, published by the National Fire Protection Association, Battery March Park, Quincy, Massachusetts.
2. Waste tires and processed tires are stored outdoors at the Sumter Count Landfill. Outdoor storage complies with the following technical and operational standards:
 - (a) The waste tire site is not located within 200 feet of a water body, or in a wetland, transitional wetland or isolated wetland. The waste tire site is located on an impervious surface, sloped to direct stormwater away from the waste tire pile to stormwater retention areas.
 - (b) The size of the waste tire pile shall not approach the size constraints given in Rule 17-711.540(2)(b) as the restrictions of this Waste Tire General Permit Notification are expected to be met. Those restrictions are:
 1. No more than 1,000 waste tires shall be stored at the site; and
 2. All of the waste tires are removed from the site at least once each year.

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The waste tire collection site operated at the Sumter County Landfill should not fall under the processing limit of 500 waste tires per 30 day period as no attempt is made to recapture reusable byproducts from the waste tires or to cut, burn or otherwise alter whole tires so that they are no longer whole. See Rule 17-711.200 (14).

- (c) An unobstructed 50-foot wide fire lane shall be maintained around the waste tire pile.
- (d) Mosquitoes and rodents shall be controlled to protect the public health and welfare.
- (e) A sign located at the locking gate on the entrance road shows the days and hours of operation. A sign is located at the scale house at the entrance of the Sumter County Landfill showing the various rates. The signs are shown in Photographs No. 6 and No. 7 in Appendix F.
- (f) No operations involving the use of open flame shall be conducted within twenty-five (25) feet of the waste tire pile.
- (g) Any vehicle is allowed access to the waste tire pile at any time.
- (h) The Sumter County Landfill is surrounded by an effective barrier, restricting unauthorized dumping. Access is controlled by the use of locking gates.

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- (i) An attendant is on duty at the waste tire pile during unloading operations as inspection of solid waste stream is part of the operational guidelines at the Sumter County Landfill. See Photograph No. 10.
- (j) A concrete barrier is placed downhill from the waste tire pile providing adequate protection from liquid runoff from a potential fire from entering water bodies.
- (k) A copy of the letter sent to Lake Panasoffkee Fire District is enclosed in Appendix L. A fire safety survey was requested.
- (l) Telephones are maintained at the Sumter County Landfill should contact with local fire prevention authorities be indicated.
- (m) The waste tire pile is presently located on an asphaltic concrete surface; therefore, potentially flammable vegetation is not a concern.
- (n) An emergency preparedness manual is available at the site. This manual includes the following elements:
 - 1. A list of names and telephone numbers of persons to be contacted in the event of fire, flood or other emergency;
 - 2. A list of emergency response equipment, locations and how equipment is to be used in the event of fire, flood or other emergency; and

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3. A description of the procedures that follow in the event of a fire, including procedures to contain and dispose of the oily material generated by the combustion of a large number of tires.
- (o) The Florida Department of Environmental Regulation shall be notified immediately in the event of a fire or other emergency if the potential of off-site effects exists. Within two weeks of any emergency involving potential off-site impact, a written report shall be submitted to the Florida Department of Environmental Regulation describing the origins of the emergency, the actions that were taken to deal with the emergency, the results of the actions that were taken and analysis of the success or failure of the actions.
- (p) Records shall be maintained of the quantity of waste tires and processed tires (road kill) received at the site, stored at the site and shipped from the site.

SECTION 6
APPLICATION FOR
PERMIT TO MAINTAIN CLOSED CLASS I SANITARY LANDFILL

PREPARED FOR



BOARD OF COUNTY COMMISSIONERS
DEPARTMENT OF PUBLIC WORKS
222 EAST McCOLLUM AVENUE
BUSHNELL, FLORIDA 33513

PREPARED BY



Springstead
Engineering, inc.

LEESBURG, FLORIDA

MARCH 30, 1992

92-1100.00

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

APPLICATION FOR PERMIT TO CLOSE
A SOLID WASTE RESOURCE RECOVERY AND MANAGEMENT FACILITY

GENERAL REQUIREMENTS

Solid Waste Resource Recovery and Management Facilities must be permitted pursuant to Section 403.707, Florida Statutes. Separate permit applications for each type of facility, six copies each, should be submitted to the District office of the Department of Environmental Regulation. Complete appropriate sections of the application for the type of facility involved.

Applicant has the responsibility to provide copies of the application to appropriate city, county and/or regional pollution control agencies, established pursuant to Section 403.182, Florida Statutes. Applicant shall also submit the application through appropriate local planning agencies. Comments from any of these agencies shall be forwarded with the application to the Department.

The permit application shall include all information necessary to evaluate the proposed closure plan to insure the landfill will pose no significant threat to public health or the environment. All entries should be typed or printed in ink. If additional space is needed, separate, properly identified sheets of paper may be attached. All blanks shall be filled or marked as not applicable.

Facility Type:

Sanitary Landfill:

- ☒ Class I, more than 50 cy or 20 tons waste/day
☐ Class II, less than 50 cy or 20 tons waste/day
☐ Class III:
☐ trash/yard trash

Volume Reduction:

- ☐ Composting
☐ Transfer Station
☐ Shredder
☐ Incinerator/Trench Burner
☐ Resource Recovery: ☐ Energy ☐ Materials

Sludge Landspreading:

- ☐ Grade II

FACILITY NAME: Sumter Co. Solid Waste Management Fac. /4060C0092

FACILITY LOCATION (main entrance): Approx. 1 mile east of I-75 on C.R. 470

S 15, T 20S, R 22E /Latitude 28° 44' 30N Longitude 82° 05' 20W

Applicant Name (operating authority): Sumter Co. Bld. of Co. Comm., Dept. of Pub. Works

Street Address (include P. O. Box): 222 East McCollum Avenue, Bushnell, Sumter, FL 33513

Contact Person: Carry Breeden, Director of Public Works (904) 793-0240

Authorized Agent/Consultant: John W. Springstead, P.E., Consultant

Mailing Address: 727 South 14th Street

Leesburg, Lake, Florida 34748

Contact Person: John W. Springstead, P.E. (904) 787-1414

Landowner (if different than applicant): Same as applicant

Address of Landowner: Same as applicant

street, P. O. Box city state zip

**REQUIRED ATTACHEMENTS FOR CLOSURE OF A
RESOURCE RECOVERY AND MANAGEMENT FACILITY**

LANDFILL:

Permit applications and supporting information shall include the following (17-7.030(2), F.A.C.):

- | | Completeness Check |
|---|--------------------|
| 1. A letter of transmittal to the Department; (17-7.030(3)(a), F.A.C.) | ___ |
| 2. A table of contents listing the main sections of the application: (17-7.030(3)(a), F.A.C.) | ___ |
| 3. The permit fee specified in Florida Administrative Code Rule 17-4.05 in check or money order payable to the Department: (17-7.030(3)(c), F.A.C.) | ___ |
| 4. Six copies, at minimum, of the completed application form, all supporting data, and reports; (17-7.030(2), F.A.C.) | ___ |
| 5. Engineer certification; (17-7.030(3)(g), and 17-7.073(8), F.A.C.) | ___ |
| 6. Engineer's letter of appointment if applicable; (17-7.030(3)(a), F.A.C.) | ___ |
| 7. Closure plan as required in Florida Administrative Code Rule 17-7.073. A copy of a Department letter of approval of the landfill groundwater monitoring plan, or a copy of the letter of transmittal of the groundwater monitoring plan to the Department may be included in the closure plan in lieu of the groundwater monitoring plan document. | ___ |
| 8. Copy of any lease agreement, transfer of property agreement with right of entry for long-term care, or any other agreement between operator and property owner by which the closing and long-term care of the facility may be affected; (17-7.030(3)(h) and 17-7.073(3)(4), F.A.C.) | ___ |

ATTACHMENT ITEMS

The following information items must be included in the application or an explanation given if they are not applicable.

CLOSURE PLAN REQUIREMENTS (17-7.073), F.A.C.)

- | | |
|--|----|
| 1. <u>General Landfill Information Report</u>
(17-7.073(1), Florida Administrative Code) | |
| a. Identification of the landfill (17-7.073(1)(a), F.A.C.) | XX |
| b. Name, address, and phone number of primary contact person (17-7.073(1)(b), F.A.C.) | XX |
| c. Name of persons or consultants preparing closure plan (17-7.073(1)(c), F.A.C.) | XX |
| d. Name of landfill property owners and landfill operator (17-7.073(1)(d), F.A.C.) | XX |
| e. Locations of main entrance or operators office of the landfill by: township, range, and section and latitude and longitude (17-7.073(1)(e), F.A.C.) | XX |
| f. Total acreage of waste disposal area and landfill property (17-7.073(1)(f), F.A.C.) | XX |
| g. Legal Description of landfill property (17-7.073(1)(g), F.A.C.) | XX |
| h. History of landfill construction and operations (17-7.073(1)(h), F.A.C.) | XX |
| i. Identity of types of waste disposal of in completed landfill (17-7.073(1)(i), F.A.C.) | XX |

2. Area Information Report
(17-7.073(2), F.A.C.)

Completeness Check

- a. Topography (17-7.073(2)(a), F.A.C.)
- b. Hydrology (17-7.073(2)(b), F.A.C.)
- c. Geology (17-7.073(2)(c), F.A.C.)
- d. Hydrogeology (17-7.073(2)(d), F.A.C.)
- e. Ground and surface water quality (17-7.073(2)(e), F.A.C.)
- f. Land use information (17-7.073(2)(f), F.A.C.)

XX

XX

XX

XX

XX

XX

3. Groundwater Monitoring Plan Containing Site Specific Information
(17-7.073(3) and 17-4.245(6)(d), F.A.C.)

XX

4. Gas Migration Investigation
(17-7.073(4), F.A.C.)

XX

5. Assessment of the Effectiveness of Existing Landfill Design and Operation
(17-7.073(5), F.A.C.)

- a. Effectiveness and results of groundwater investigation (17-7.073(5)(a), F.A.C.)
- b. Effects of surface water runoff, drainage patterns and existing storm water controls (17-7.073(5)(b), F.A.C.)
- c. Extent and effects of methane gas migration (17-7.073(5)(c), F.A.C.)
- d. Type and condition of existing cover and effectiveness as leachate control mechanism. (17-7.073(5)(d), F.A.C.)
- e. Nature and characteristics of wastes disposed of at the landfill. (17-7.073(5)(e), F.A.C.)

XX

XX

XX

XX

XX

6. Closure Design Plan
(17-7.073(6), F.A.C.)

- a. Phasing of site closing. (17-7.073(6)(a), F.A.C.)
- b. Existing topography and proposed final grades. (17-7.073(6)(b), F.A.C.)
- c. Final cover installation plans. (17-7.073(6)(c), F.A.C.)
- d. Proposed method of leachate control. (17-7.073(6)(d), F.A.C.)
- e. Compliance with groundwater protection requirements of 17-4.245 and 17-4.246, F.A.C. (17-7.073(6)(e), F.A.C.)
- f. Proposed method of gas and odor control. (17-7.073(6)(f), F.A.C.)
- g. Proposed method of stormwater control. (17-7.073(6)(g), F.A.C.)
- h. Proposed method of access control. (17-7.073(6)(h), F.A.C.)
- i. Proposed final use of landfill property. (17-7.073(6)(i), F.A.C.)

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

7. Closure Operation Plan
(17-7.073(7), F.A.C.)

Completeness Check

- a. Describe actions which will be taken to close the landfill.
(17-7.073(7)(a), F.A.C.)
- b. Time schedule for completion of closure and long term care.
(17-7.073(7)(b), F.A.C.)
- c. Proposed method of demonstrating financial responsibility for long term monitoring and maintenance. (17-7.073(7)(d), and 17-7.077(2)(i), F.A.C.)
- d. Equipment and personnel needs to complete closure.
(17-7.073(7)(e), F.A.C.)

N/A

N/A

N/A

N/A

REQUIREMENTS FOR LONG TERM CARE (17-7.075, F.A.C.)

1. Establish Long Term Care Period From Date of Closing.
(17-7.075(1) and 17-7.074(5), F.A.C.)
2. Acquire Right of Access Agreement Between Operator and Property Owner for Closing and Long-Term Care.
(17-7.075(3) and 17-7.077(2)(h), F.A.C.)

XX

XX

REQUIREMENTS FOR PROOF OF FINANCIAL RESPONSIBILITY (17-7.076, F.A.C.)

1. Closure Cost Estimates
(17-7.076(1), F.A.C.)

N/A

APPLICATION FOR A LONG-TERM CARE PERMIT
FOR THE CLOSED CLASS I SANITARY LANDFILL
TO REPLACE PERMIT SF60-146475
SUMTER COUNTY SOLID WASTE MANAGEMENT FACILITY
SUMTER COUNTY, FLORIDA
92-1100.00

INTRODUCTION

State of Florida Department of Environmental Regulation issued permit SF60-146475, July 1, 1988. This permit authorized work to close portions of the solid waste Class I sanitary landfill (approximately 30 acres), referred to as Sumter County Landfill, subject to specific attachments, near Interstate 75 and C.R. 470, north of Bushnell, Sumter County, Florida.

The closure of the Class I sanitary landfill was done in three (3) phases. Certification of Phase I cell closure was issued December 11, 1989. Certification of Phase II cell closure was issued May 24, 1990. Certification of Phase III cell closure was issued December March 5, 1990.

1. GENERAL LANDFILL INFORMATION REPORT

a. Identification of the landfill

The closed portions Class I Sanitary Landfill located at the Sumter County Landfill, a solid waste management facility. The facility is approximately one (1) mile east Interstate Highway No. 75 in Section 15, Township 20 South, Range 22 East, Sumter County, Florida. Groundwater Management System identification number is 4060C00092.

b. Name, address and phone number of primary contact person

Mr. Garry Breeden, Director
Sumter County Public Works Department
222 East McCollum Avenue
Bushnell, Florida 33513
(904) 793-0240

c. Closure plan prepared by
Springstead Engineering, Inc.
727 South 14th Street
Leesburg, Florida 43748
(904) 787-1414

- The landfill is owned, fee simple, by the Sumter County Board of County Commissioners.

The landfill is operated by the Sumter County Board of County Commissioners and the American Recycling Company, Inc (Amerecycle).

- Section 15, Township 20 South, Range 22 East,
latitude 28° 44' 30" North, longitude 82° 05' 20"
West.

- Waste disposal area - 19.84 acres

Landfill property - 30 acres. ~~property - 30 acres~~

- $$S^{\frac{1}{2}} \text{ of } SE^{\frac{1}{2}} \text{ of } SE^{\frac{1}{2}} \text{ of } S^{\frac{1}{2}} \text{ of } SE^{\frac{1}{2}} \text{ of } SE^{\frac{1}{2}}$$

AND [REDACTED] **AND** [REDACTED]

E. 20 feet of N 417.55 feet of NW $\frac{1}{4}$ of SE $\frac{1}{4}$ East of NW $\frac{1}{4}$ of SE $\frac{1}{4}$

AND

E. 50 feet of S 902.45 feet of NW $\frac{1}{4}$ of SE $\frac{1}{4}$

AND

E. 50 feet of SW $\frac{1}{4}$ of SE $\frac{1}{4}$

AND

All in Section 15, Township 20 South, Range 22 East, Sumter County, Florida.

APPLICATION FOR A LONG-TERM CARE PERMIT
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h. History of landfill construction and operation

Landfilling was accomplished by the trench fill method of disposal. Trench work began on the eastern side of the property in June, 1975 and progressed westward. Cells were opened from the north to the south as needed. The trenches were opened to a width of approximately 35 feet with a width varying between 15 and 25 feet. The fill consists of residential and commercial solid waste (see question "i", below). High rising operations were begun on the site in 1987 using on stockpiled on site and off site material as daily cover. The landfill operations were continuous until closure.

i. Identity of types of waste disposal of in completed landfill

Sumter County contracted with TIA Solid Waste Management Consultants to conduct a study of the composition of the county's municipal solid waste. The results of the study were submitted to the Sumter County Board of County Commissioners in a report titled Sumter County Waste Composition Study - January 1991

Table 3-5 of the above report identified the types and percentages of waste as follows:

1. Newsprint	7.9%
2. Fine Paper	4.2%
3. Misc. Paper	9.0%
4. Corrugated	8.7%

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5.	Plastic Film	4.4%
6.	Plastic (PET)	0.8%
7.	Plastic (HDPE)	0.5%
8.	Plastic (BOT)	1.4%
9.	Plastic (Other)	3.8%
10.	Textiles	1.5%
11.	Yard Waste	13.8%
12.	Food Waste	5.4%
13.	Wood Lumber	0.5%
14.	Glass	4.1%
15.	Rubber	0.4%
16.	Steel Cans	3.1%
17.	Other Ferrous	0.5%
18.	Non-Ferrous (Aluminum)	0.5%
19.	OBW	0.0%
20.	Construction	15.6%
21.	Sweepings	0.0%
22.	Other	14.0%

Also, footnote 3 in Table 3-5 indicated the source of waste as follows:

1.	Residential	54%
2.	Commercial / Industrial	43%
3.	Institutional	3%.

2. AREA INFORMATION REPORT

a. Topography

The topography is karstic as indicated by the numerous closed depressions near the landfill site and knowledge of the characteristics of the under-

APPLICATION FOR A LONG-TERM CARE PERMIT
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lying limestone formations known at the landfill site.

b. Hydrology

Report of Investigations No. 42, titled Hydrology of Green Swamp Area in Central Florida, (1966), prepared by the United States Geological Survey indicates that the groundwater supply in the area of the landfill originates with precipitation. The area around the landfill is karstic having a poorly developed surface drainage system and a well developed subsurface drainage system. Runoff from rainfall is directed to the numerous closed depressions. Some of the water ultimately enters the zone of saturation, recharging the aquifers. The groundwater moves within the aquifers under the influence of gravity toward areas of discharge such as streams, lakes, springs, wells and the oceans.

c. Geology

Basically, the geology of the site may be described as a layer of clastic material (sand, silt and clay) overlying carbonates (limestone and dolomite). The thickness of the layer of clastic material is less than fifty (50) feet. The limestone is several thousand feet thick. The upper, more recently deposited limestones make up the Floridan Aquifer. The thickness of the Floridan Aquifer probably nears one-thousand-five-hundred feet in this area. The limestone formations beneath the site listed from youngest to oldest are:

APPLICATION FOR A LONG-TERM CARE PERMIT
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1. The Ocala Group of the Late Eocene Epoch dated approximately 38 million years old. The Ocala Group is made up of the Crystal River Formation and the Williston Formation. Some sources also include the Inglis Formation.
2. The Avon Park Limestone of the Middle Eocene Epoch dated approximately 41 to 48 million years old.
3. The Oldsmar Limestone of the Middle and Early Eocene Epoch dated approximately 48 to 53 million years old.
4. The Cedar Keys Formation of the Late Paleocene Epoch and the Early Eocene Epoch dated 53 to 60 million years old.

The Oldsmar Limestone and the Cedar Keys Formation are not considered to be part of the Floridan Aquifer. Some sources include the Lake City Limestone as a part of the Floridan Aquifer, placed between the Avon Park Limestone and the Oldsmar Limestone. References used in the Geology section are:

1. Column No. 30, Gulf Coast Region Chart, Correlation of Stratigraphic Units of North America (COSUNA) Project American Association of Petroleum Geologist.
2. Geologic Highway Map of the Southeastern Region, The American Association of Petroleum Geologist and the United States Geologic Survey.

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3. Hydrology of Lake of Sumter County, Florida,
United States Geological Survey.

d. Hydrogeology

According to a report titled Water-Resources Information for the Withlacoochee River Region, West-Central Florida, (1981), published by the United States Geologic Survey, the site is located in the Western Valley Physiographic Area. Valleys are characterized by large lakes, flat terrain and relatively high runoff.

According to the Soil Survey of Sumter County, Florida, published by the United States Department of Agriculture Soil Conservation Service the soil types present at the subject are: Astatula fine sand, rolling, Lake fine sand, 0 to 5 percent slopes and Apopka fine sand, 0 to 5 percent slopes.

Astatula fine sand, ~~rolling~~ is ~~moderately~~ sloping to strongly sloping and is excessively drained. It is on the sand hills in Sumter County.

Typically, the surface layer is dark gray fine sand about 3 inches thick underlain by pale brown and grayish brown fine sand to a depth of about 6 inches. The upper part of the underlying material, to a depth of about 27 inches, is light yellowish brown fine sand.

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The middle part, to a depth of about 40 inches, is pale brown fine sand. The lower part to a depth of more than 80 inches is very pale brown fine sand.

This soil does not have a high water table within 80 inches of the surface. The available water capacity is very low. Permeability is very rapid. Natural fertility is very low.

Lake fine sand, 0 to 5 percent slopes is nearly level to gently sloping and is excessively drained. It is on ridges and knolls in the broad upland areas.

Typically, the surface layer is very dark grayish brown fine sand about 9 inches thick. The upper part of the underlying material, to a depth of about 63 inches, ~~is brown, yellowish, brown and strong brown fine sand.~~ The lower ~~part~~ ~~part to a depth of more than 80 inches or more~~ ~~is brownish yellow fine sand.~~ ~~yellow fine sand.~~

This soil does not have a high water table within 80 inches of the surface. The available water capacity is low throughout. Permeability is rapid or very rapid. Natural fertility is low.

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Apopka fine sand, 0 to 5 percent slopes is nearly level to gently sloping and is well drained. It is on the upland.

Typically, the surface layer is dark gray fine sand about 8 inches thick. The subsurface layer, to a depth of about 54 inches, is pale brown and very pale brown fine sand. The upper part of the subsoil to a depth of about 63 inches or more, is brownish yellow sandy loam. The lower part to a depth of about 80 inches is reddish yellow sandy loam.

This soil does not have a high water table within 72 inches of the surface in most years. The available water capacity is low. Permeability is rapid in the surface and subsurface layers and is moderate in the subsoil. Natural fertility is low.

- e. Groundwater and surface water quality
Water quality is a generalized expression which encompasses the concentrations and measurements of many constituents and physical characteristics associated with the chemistry of water. The report titled Water-Resources Information for the Withlacoochee River Region, West Central Florida, (1981), published by the United States Geologic Survey, provided the following information for water in streams:

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- (1) The chemical type of stream water during low-flow conditions is calcium and magnesium carbonate type;
- (2) The average dissolved-solids concentrations of stream water estimated from specific conductance data was 100 to 200 mg/L;
- (3) The maximum observed specific conductance for stream water was 250 to 500 micromhos per centimeter at 25°C;
- (4) The average total nitrogen concentration in stream water was less than 0.60 mg/L;
- (5) The maximum orthophosphate concentration in stream water was 0.2 to 0.5 mg/L;
- (6) The maximum color of stream water was 200 to 300 Platinum-Cobalt units;
- (7) The minimum pH of stream water was 6.0 to 7.0 pH units.

The water quality data given for Fenney Springs was:

Dissolved solids was 175 mg/L;
Specific Conductance was 230 μ mhos/cm;
Hardness as CaCO₃ was 120 mg/L;
Chloride was 1.2 mg/L

f. Land use information.

The Sumter County Planning and Zoning Department was contacted regarding the zoning of the facility. The current zoning is INDUSTRIAL DISTRICT as is all adjacent property. Sumter County is currently in a

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transition period due to the recent adoption of Sumter County Comprehensive Plan, 1991 - 2001, adopted by the Sumter County Board of County Commissioners on February 3, 1992. The facility will be permitted or authorized under the Comprehensive Plan, regardless the facility is vested. Map VII-19 titled Future Land Use, Sumter County, 2001 in the Comprehensive Plan, presented in Appendix I, shows an area encompassing the present facility and areas in Sections 22 and 23 slated for set aside for industrial uses. These areas are slated for expansion of the facility.

3. GROUNDWATER MONITORING PLAN

A copy of the Groundwater Monitoring Plan for the Sumter County Landfill dated June 14, 1984 and Florida Department of Environmental Regulation's letter of approval, dated March 22, 1985 are enclosed and may be found in Appendix J.

4. GAS MIGRATION INVESTIGATION

The purpose of measuring gas generated at the Sumter County Landfill site was to determine if landfill gas was moving laterally, possibly causing a threat of explosion due to a buildup of gas in nearby structures or migration to off-site locations. A copy of Gas Migration Investigation, Sumter County Landfill is presented in Appendix K.

Porous soils formerly used for daily cover in the closed portions of the landfill should allow generated gas to

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easily move vertically. These soils do not indicate the possibility of the creation of a trap or seal forcing the generated gas to move laterally.

The results of a field test for gas migration were given in a report dated February 2, 1988. The gas readings were reported negative; therefore, it was assumed that the landfill gas being generated by decomposing materials was being liberated vertically through porous soils and not migrating laterally, possibly to off-site locations.

5. ASSESSMENT OF THE EFFECTIVENESS OF EXISTING LANDFILL DESIGN AND OPERATION

This section applies to pre-closure of sanitary landfills; however, answers to some questions do have a bearing on the long-term care of a closed sanitary landfill.

a. Effectiveness and results of groundwater investigation

Quarterly monitoring reports have been submitted to the Florida Department of Environmental Regulation, Southwest District office in Tampa. No comments have been received concerning groundwater impact.

b. Effects of surface water runoff, drainage patterns and existing stormwater controls

Based on the highly porous soils found on site and perimeter stormwater collection, stormwater has not effected on site or off site properties, operations or area drainage patterns.

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c. Extent and effects of methane gas migration
See Gas Migration Investigation, Sumter County Landfill, presented in Appendix K.

d. Type and condition of existing cover and effectiveness as leachate control mechanism

The soils found on site are Type A soils. Type A soils have rapid infiltration rates and low runoff potential. Type A soils are not suitable for leachate control. An impervious top liner was installed to control leachate infiltration into the buried solid waste.

e. Nature and characteristics of waste disposed of at the landfill

Sumter County is primarily a small rural, agriculture based area generating a corresponding quantity of residential, commercial, agricultural and non-hazardous industrial and yard trash waste for a population in excess of 30,000. Bio-hazardous or potentially harmful waste are not accepted and are prohibited at this site.

6. CLOSURE DESIGN PLAN

a. Phasing of site closing

This section does not apply to this application.

b. Existing topography and proposed final grades

This section does not apply to this application.

c. Final cover installation plans

This section does not apply to this application.

d. Proposed method of leachate control

This section does not apply to this application.

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- e. Compliance with groundwater protection requirements
This section does not apply to this application.
- f. Proposed method of gas and odor control
This section does not apply to this application.
- g. Proposed method of stormwater control
This section does not apply to this application.
- h. Proposed method of access control
This section does not apply to this application.
- i. Proposed final use of landfill property
This section does not apply to this application.

7. CLOSURE OPERATION PLAN

- a. Describe actions which will be taken to close the landfill
This section does not apply to this application.
- b. Time schedule for completion of closure and long term care
This section does not apply to this application.
- c. Proposed method for demonstrating financial responsibility for long term monitoring and maintenance
This section does not apply to this application.
- d. Equipment and personnel needs to complete closure.
This section does not apply to this application.

REQUIREMENTS FOR LONG TERM CARE

- 1. Establish Long Term Care Period From Date of Closing
The closed Class I Sanitary Landfill is on a site being used as a modern solid waste management system. Monitoring of groundwater is required for several of the operations being performed.

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2. Acquire Right of Access Agreement Between Operator and Property Owner for Closing and Long-Term Care.
Sumter County Board of County Commissioners are the operators and owners of the Sumter County Landfill and the closed Class I Sanitary Landfill; therefore no right of access agreement is necessary.