### State of Fiorida DEPARTMENT OF ENVIRONMENTAL REGULATION



00 | 31 1035 SOUTH | DI 187

# APPLICATION FOR PERMIT TO CONSTRUCT I OPERATE ME A SOLID WASTE RESOURCE RECOVERY AND MANAGEMENT FACILITY

#### GENERAL REQUIREMENTS

Refource Recovery and Management Facilities must be permitted pursuant to Section 403.707. Florida Stitutes. Separtite applications or actipe mit our cubies each should be submitted to the District office of the Department of Environmental Refulation. Cumplete appropriate sections of the application for the type of facility proposed.

Each polication shall be accompanied by an application (check) fee or \$100 payable to "Stite or Florida Department of Environment if Regul Ton

Applicant has the re-ponsibility to provide copies of the application to appropriate dividously and/or regional pollution control agencies tablished ursuint of Section 403-82. Fonds Statute. Applicant half also dear the application through appropriate local fanning bendes. Comments from any of these agencies shall be forwarded with the application to the Department.

Information contained in the application shall conform to requirements of Chapter 17.7 Florida Administrative Code All entries should be typed or uninted in ink. If additional space is needed separate properly identified sneets of lover tray be at lover All blanks in it be filled or marked as not applicable.

| Apricant N me (operand utnority) Board                     | of County Commissioners, Sur     | ter Count, Florida                    |
|--|----------------------------------|---------------------------------------|
| He Addres Sumter County Courth                             | ou_e                             |                                       |
| Bushnell Florida 3   | 3513                             |                                       |
| -uthoriz a AceaGarry BleedenDirec                          | tor of Publ_c Works              |                                       |
| Mailing Add ess iit dif rent from above) P 0               | Drager A                         |                                       |
| Bushnell   | Sumter                           | 33513                                 |
| C 7  | County                           | Ζp                                    |
| e ennone Numbe (904) 793-4221                              |                                  |                                       |
| Foury L coon State Rose 470                                | (N me or wcc: Ro a and C assro d | 11                                    |
| S T 20S R 22E Tance Towns na are s a de lerved Sumter Coun |                                  |                                       |
| 20.000   | er i e Bushre i , na Neh e       |                                       |
|  |                                  |                                       |
| ACT WITH VASTE TRE POUNCARY 28                             |                                  |                                       |
| AC = MIT IT P Derry Poundary 30                            | 3                                |                                       |
| Volume or Sol d. Vaste of a ece ved150                     |                                  | ~ √cz\cs∧ <del>Zuczkykyzskezi</del> v |
| TE LE RE dir a Receive Solid VasteOper                     | ruting since June 1975           |                                       |
| _ndowne if different man applicant)                        |                                  |                                       |
| Acaress of Lincowner                                       |                                  |                                       |

#### Facility Type Sanitary Landfill Volume Reduction ☑ Class I more than 50 cy or 20 tons waste/day ☐ Composting C ass II less than 50 cy or 20 tons waste/day ☐ Transfer Station ☐ C ass III ☐ Shredder ☐ trash/yard trash ☐ Incinerator ☐ Resource Recovery yard trash composting ☐ Landspreading ☐ Energy ☐ Grade III ☐ Materials ☐ Grade IV ☐ Other Facility not shown. REQUIRED ATTACHMENTS FOR RESOURCE RECOVERY AND MANAGEMENT FACILITY PERMITS Construction Permits Class I and Class II Landfills Submit items 1 (if appropriate) 2, 3, 4, 5, 6, 7, 8, 9, 10, and 11 C'ass III Landfills 1 (if appropriate) 3 4 5 7 8 (a b c, h j k) 9 and 11 Volume Reduction 4 5 6 (a e) 7 (a d e g h j) 8 (a b c, g h j k) 9 and 12. Operation Permits NGTE For facilities that have been satisfactorily constructed in accordance with their construction permit, the information n A B and C above does not have to be resupmitted for an operation permit if the information has not cranced during the construction period, D Class I and II Landfills all of the items in A above plus item 13 Class III Lanofills all items in Blabove plus item 13 Volume Reduction, all items in Clabove plus item 13 ATTACHMENT ITEMS Bones (17 7 03(1) Florida Administrative Code) and/or other assurances. N/A Copy of bond or Copy of waiver of bond requirement. NOTE This requirement only applies to privately owned and operated disposal rites. It does not apply a sites operated by counties municipalities other governmental agencies or persons operating a country or municipally owned mainty uncer contract. Agre ment between landowner and applicant if not the lime ildentify and explain the ferms of lease or contract duration and who will be responsible for site closure and continued monitoring until released by the department. See Ground water fonitoring Plan Approved March 22 1985 Permit # \$060-30674 2. Soil Survey (17.7.05(2)(a) Fiorida Administrative Code) NOTE This information is not required if the information is included in the hydroceological report in item #3

Seepage 1f not covered

Apopka fine sand Astatula fine Sand and Candler Sand

All soils have an A hydrologic classification

Degree of imitation of soil

Sail series

Permeability

C.

Sou drainage class

- e Siope Apopka (0-57) Astatula (0-87 8-127) and Candler (0-57)
- f Soil texture Quartz Sand Medium Grain size and 5-207 Clay Content
- g Depth to bedrock Varies
- 3 Hydrogeological Survey (17 7 05(2)(b) Florida Administrative Code) See Groundwater Monitoring Plan Approved March 22 1985 Permit No S060-30674

NOTE For Class II and Class III landfills these requirements may be satisfied by providing the best available information from Water Management Districts the U.S. Geological Survey the Florida Bureau of Geology or other acceptable sources. For Class I site this information shall be obtained from on-site soil borings.

- a Thickness and character or overburden (soil)
- b Character of bedrock
- Depth of water table and potentiometric surfaces
- d Depth to shallow ground water aquifer and artesian aquifer
- e Local and regional ground water flow systems indicating direction of ground water flow
- f Frequency and extent of flooding of the area (17.7.04(3)(a) Florida Administrative Code)
- Landfill exists in a flood-free area above the 100 year flood plain Endence that the Facility is in conformance with local zoning (17 7 05(2)(c)4 Florida Administrative Code)
- County owned operation Information previously submitted in earlier approved application Map or Aenal Photograph taken within one year of permit application (17.7.05(3)(a) Florida Administrative Code) showing land use and zoning within / mile of the proposed facility using the Florida Land Use Cover and Forms Classification System (available from the Department) Map shall be of sufficient scale to show all homes industrial buildings wells water courses dry runs rock out-croppings roads and other significant details
- Recent aerial has been included. Zoning has not changed since earlier approved Plot Plan (17 7 05(3)(b) Florida Administrative Code). applications

  See Groundwater Monitoring Plan. Approved Mar. 22 1985. Permit # S060-30674. NOTE. The plot plan should be drawn on a scale not greater than 200 feet to the inch showing the following.
  - a Dimensions and legal description of the site Legal description found in earlier approved operation
  - Permit Applications
    b Location and depth corrected to MSL of soil borings
  - c Proposed trenching plan
  - d Cover stock piles
  - e Fencing or other measures to restrict access
  - f Cross sections showing both original and proposed fill elevations
  - g Location depth corrected to MSL and construction details of monitoring wells
- 7 Design Drawings and Maps (17 7 05(3)(c) Florida Administrative Code) See Groundwater Monitoring Plan

  Approved March 22, 1985 Permit # \$060-30674

  NOTE The design drawings and maps which may be combined with the plot plan (item #6) should be drawn on a scale not greater than 200 feet to the non-showing the following
  - a. Topographic map with five foot contour intervals
  - b Proposed fill area
  - c Borrow area
  - d Access roads
  - e Grades required for proper drainage
  - f Typical cross sections or disposal site including lifts borrow areas and drainage controls
  - g Special drainage devices

- Fencing Perimeter fence access controlled at entrance gate h
- Single facility building at entrance with well Equipment facilities
- Other pertinent information based on intended use of facility
- See Groundwater Monitoring Plan 8. Report (17.7.05(3)(d) Florida Administrative Code) Approved Mar 22 1985 Permit #S060-30674
  - Estimated population and area served by the proposed site with basis for the estimate
  - Anticipated type annual quantity and source of solid waste with rationale for estimate expressed in tons or cubic yards h of compacted material. Specify the type and amounts of solid wastes to be received from industrial and commercial SOURCES
  - Anticipated life of site
  - Geological formations and ground water elevations corrected to MSL to a depth of at least ten feet below proposed excavations and lowest elevation of the site. Such data shall be obtained by soil borings or other appropriate means. This in formation is not required for Class III sites. This information may be submitted in the hydroceological survey (Item #3)
  - Soil map interpretive guide sheets, and a report giving the suitability of the site for such an operation. This information may be submitted in the soil survey (Item #2)
  - Source and characteristics of cover material
  - Contingency plan including waste handling and disposal methods in case of an emergency such as equipment failure natural disaster or fire See Supplemental Information
  - Persons responsible for actual operation and maintenance of the site and intended operating procedures See Supplemental Information
  - A plan for gas control if gas generation from the site is expected

See Supplemental Information

- Operational plans to direct and control the use of the site
- See Supplemental Information
  Plans for controlling the type of waste received at the site plans shall specify inspection procedures to be followed if prohibited types of waste are discovered See Supplemental Information

)

- 9. Water Quality Standards (17 7 05(3)(e) 17 7 05(4)(f) and 17 7 05(4)(g) Florida Administrative Code)
  - See Supplemental Information Indicate by discussion or drawings or both how the site is designed to meet water quality standards of 17 3 and 17-4. Florida Administrative Code at the sate boundary
- 10. Background Nater Quality (17 7 05(4)(a)3 Florida Administrative Code) Ground water and any on-site water shall be tested for the following parameters:

  A comprehensive monitoring of wells for water quality can be a comprehensive monitoring of wells. found in the Groundwater Monitoring Plan Approved Mar 22 1985 Permit #S060-30674
  - Nitrates h
  - Iron C.
  - ď. Chemical Oxygen Demand
  - Others as determined necessary
- Attached to Application Form Solid Naste Disposal Facility Data Form
- 12. Solid Naste Volume Reduction and Resource Recovery Facility Data Form N/A
- Found in earlier approved operating permit applications 13. Carnification of Construction Completion

#### STATEMENTS BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

|   | Applicant  |  |  |  |
|---|--|--|--|--|
| The undersigned owner or authorized representat   | The undersigned owner or authorized representative of <u>Sumter County</u>   |  |  |  |
| is aware that statements made in this form and attached exhibits are an application for a Landfill Operation  |  |  |  |  |
| Further the undersigned agrees to comply with   | Permit from the Florida Department of Environmental Regulation is true correct and complete to the best of his knowledge and belief the provisions of Chapter 403. Florida Statutes, and all rules and regulations it is not transferable, and the Department will be notified prior to the sale.  |  |  |  |
|   | Dan Brut   |  |  |  |
|   | Signature of Owner or Agent  |  |  |  |
|   | Garry Breeden Director of Public Works  Name and Title   |  |  |  |
|   | Date 10-23-85  |  |  |  |
|   | Attach letter of authorization if agent is not a governmental or call owner or corporate officer   |  |  |  |
| when properly maintained and operated will co   | imply with all applicable statutes of the State of Florida and rules of the Depa   |  |  |  |
| ment it is agreed that the undersigned will provide of the facility  Signature  John W. Springstead, P E  | mply with all applicable statutes of the State of Florida and rules of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Department of the Departmen |  |  |  |
| ment It is agreed that the undersigned will provide of the facility  Signature  | simply with all applicable statutes of the State of Fiorida and rules of the Department of the applicant with a set of instructions for proper maintenance and operation of the applicant with a set of instructions for proper maintenance and operation of the applicant with a set of instructions for proper maintenance and operation of the applicant with a set of instructions for proper maintenance and operation of the applicant with a set of instructions for proper maintenance and operation of the Department of th |  |  |  |
| ment It is agreed that the undersigned will provide of the facility    Signature     John W. Springstead, P E     Name and Title (Please Type)     8579   | simply with all applicable statutes of the State of Fiorida and rules of the Depa de the applicant with a set of instructions for proper maintenance and operation.  Spr. ngstead & Associates-P 0 Box 448  Mailing Address  Leesburg, Florida 32749-0448  C ty State Zip Code  (904) 787-1414   |  |  |  |
| John W. Springstead, P E Name and Title (Please Type)   | simply with all applicable statutes of the State of Fiorida and rules of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Associates Proper maintenance and operation of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Associates Proper maintenance and operation of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Depa de the applicant with a set of instructions for proper maintenance and operation of the Associates Properties of the Depa de the Associates Properties Prop |  |  |  |
| John W. Springstead, P E Name and Title (Please Type)  8579  Florida Regi. ation No.  | Spr. ngstead & Associates -P 0 Box 448  Spr. ngstead & Associates -P 0 Box 448  Walling Address  Leesburg, Florida 32749-0448  C ty State Zip Code  (904) 787-1414  Telephone No   |  |  |  |
| ment it is agreed that the undersigned will provide of the facility    Signature   John W. Springstead, P. E.     Name and Title (Please Type)     8579     Florida Regination No (please affix seal) | Spr. ngstead & Associates -P 0 Box 448  Spr. ngstead & Associates -P 0 Box 448  Walling Address  Leesburg, Florida 32749-0448  C ty State Zip Code  (904) 787-1414  Telephone No   |  |  |  |
| ment it is agreed that the undersigned will provide of the facility    Signature   John W. Springstead, P. E.     Name and Title (Please Type)     8579     Florida Regination No (please affix seal) | Mailing Address  Leesburg, Florida 32749-0448  City State Zip Code  (904) 787-1414  Date  Date   |  |  |  |

#### SOLID WASTE DISPOSAL FACILITY DATA FORM

| Permit No   |   |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|
| Facility No (DER Identification) 10024260016092   |   |  |  |  |  |  |  |
| DER ACTION  | ☐ Change ☐ Deactivate Site                            | ☐ Other  |  |  |  |  |  |
| 1 County<br>Sumter  | 2. Site Name Sumter County Sa                         | nnitary Landfill   |  |  |  |  |  |
| 3 Date Form Completed 10/12/85  | 4 Facility Address<br>State Road 470                  |  |  |  |  |  |  |
| 4a Facility Phone No  | 4b Facility Site Supervisor                           |  |  |  |  |  |  |
| 5a 28 44 30N 82 05 20W  |   | 2 E 15   |  |  |  |  |  |
| Latitude Longitude  | <u> </u>  | Rance Section  |  |  |  |  |  |
| 6 Operating Authority Name  | 8 Operating Autho                                     | nty Address ty Courthouse  |  |  |  |  |  |
| 7 Phone Number (904) 793-4221   | 4   | lorida 33513   |  |  |  |  |  |
| 9 Owner of Site Property (if different from o   |   |  |  |  |  |  |  |
| 10 Phone Number of Owner  |   |  |  |  |  |  |  |
| ☐ C ass II Sanitary Landfill  | Class III  Trash/Yard Trash  Trasn & Trasn Composting | ☐ Sludge disposal facility ☐ Other Facility Not Shown  (Lagoon Pit etc.) |  |  |  |  |  |
| June 1975   | 4 Disposai Area<br>28 Acres                           | 15 Population Served<br>20 000   |  |  |  |  |  |
| 3 Years   | 7 Weigning Scales<br>□ Yes XIX No                     | 18 Security to Prevent Unauthorized Use                                  |  |  |  |  |  |
| MSL 44 Ft   | Ouantity of Waste/Day Tons or 150 Yd <sup>3</sup>     | 21 Charge  |  |  |  |  |  |
| 22 Surrounding Land Use Zonine  Residential None Agricul  | iturai 🗆 Commerciai 🖂 Industr                         | nal 쯔 Other  |  |  |  |  |  |
| 23 Types or Naste Received  1 X3 Re idential XX Agricul  2 Commercial Septic  3 Industr  4 Pathological/Intectious Water/ | Tank Stand Trash/Trash                                | ☐ Industrial Sludge sh ☐ Hospital ☐ Other                                |  |  |  |  |  |
| 24 Number of Manitaring Weils   | 6 25 Number of Surface                                | ∞ Monitoring Points None   |  |  |  |  |  |
| 26 Gas Control System 27  | 7 Salvaging Permitted  C Yes   KNo                    | 28 Attendant   Full-Time   Ex Yes   C No                                 |  |  |  |  |  |
| 2º Leachate Control Method Liner Type ☐ Natural ☐ Emplo   | aced Clay   | 於Other Clay Cover  |  |  |  |  |  |
| Cullect on Method   | ☐ Parlmetar Ditch XX None ☐                           | Under 5 te Orains C Other  |  |  |  |  |  |
| Treatment Method 🖂 Oxidation  |   | ☐ Ad næd None ☐ Other  |  |  |  |  |  |
| 30 L acnate Discharge   | <del></del>   | ater Groundwater G-3   |  |  |  |  |  |
| 31 Site Located in Floodplain   | ☐ Wetlands  |  |  |  |  |  |  |
| 32 Sur-ace Runorf Collected   | Type of Runarf Treatment None                         | C ass of Receiving Waters None   |  |  |  |  |  |
| 33 Property Recorded as a Solid Naste Disposal Site in County Land Records  |   |  |  |  |  |  |  |
| 4 Days of Operation 6 days/Week   Days of Cover Covered Daily   Hours of Operation 8                                      |   |  |  |  |  |  |  |
| John W Springstead P E  |   |  |  |  |  |  |  |

Note All blanks must be filled or marked as not applicable

## SOLID WASTE VOLUME REDUCTION AND RESOURCE RECOVERY FACILITY DATA FORM

| Peri  | mit No  | Issue Date                              |                             | Expires                                  |                                  |  |  |
|---|---|---|-----------------------------|--|----------------------------------|--|--|
| Facility No. (DER Identification)   |   |   |                             |  |                                  |  |  |
| DE  | R ACTION Add Delete   | ☐ Change ☐                              | Deactivate Site             | ☐ Other                                  |                                  |  |  |
| 1   | County  | County 2. Site Name                     |                             |  |                                  |  |  |
| 3   | Date Form Completed   | 4 Facility Addr                         | 4 Facility Address          |  |                                  |  |  |
| 4a  | Facility Phone No   | 4b Facility Site S                      | 4b Facility Site Supervisor |  |                                  |  |  |
| 5a  | 0 0   | 5b                                      |                             | <del></del>                              |                                  |  |  |
|   | Latitude Longitud   | le Townshi                              | p                           | Range                                    | Section                          |  |  |
| 6   | Operating Authority Name  |   | 8 Operating A               | Authority Address                        |                                  |  |  |
| 7   | Phone Number  |   |                             |  |                                  |  |  |
| 9   | 9 Owner of Site Property (if different from Operator)   11 Address of Owner                       |   |                             |  |                                  |  |  |
| 10  | Phone Number of Owner   |   | 7                           |  |                                  |  |  |
| 12 Facility Type (check one or more)  Incinerator Only  Blomass Gas Production Composting Plant Transfer Station Waterwall Incinerator  Shredder (pulverizer)  Month/Year Begun  14 Disposal Area  15 Population Served |   |   |                             |  |                                  |  |  |
|   |   |   | Acres                       |  |                                  |  |  |
| 16  | Expected Useful Lifetime Years  | 17 Weighing Scales                      | lo                          | 18 Waste Processed F                     | Per Operational Day tons/gai/yd  |  |  |
| 9   | Char e/   | 20 Days Operated<br>S M T W             | TFS                         | 21 Hours/Day Opera                       | ted                              |  |  |
| 22  | Maximum Processing Rate   | ţ                                       | ons/day                     |  |                                  |  |  |
| 23  | Material Recovered Tons/Week Paper Ferrous Metals Aluminum  | Glass<br>Non Ferri<br>Plastics          | ous Metals                  | Other                                    |                                  |  |  |
| 24  | Energy Recovery in units snown High Pressure Steam (b/h Low P essure Steam (b/h Electricity kw/hr | r Chilled W<br>r Oil-gai/hr<br>Oil BTU/ | ,                           | Gas ft <sup>3</sup> /hr Gas BTU/hr Other |                                  |  |  |
| 25  | Process Water Recycled  | ☐ No   Treatme                          | ent Method Used             |  |                                  |  |  |
|   | Discri raea to  Surface Waters  Undergra  | und                                     |                             | C ass Recuiving Water                    |                                  |  |  |
| 26  | 26 Final Residue is ———————————————————————————————————   |   |                             |  |                                  |  |  |
| 27  | Supplementary Fuel Used   |   |                             |  |                                  |  |  |
|   | Type Quantity Used/Hour   |   |                             |  |                                  |  |  |
| ∠8  | Estimated Operating Costs Material  | - Energy Revenue S                      | Total Co                    | st/Ton S Net Co                          | t Ton 5                          |  |  |
| 29  | Number of Starf   | 30 State Pollution (<br>Financing Amou  |                             | 31 Estimated Amou that will be Regu      | nt of Tax Exemptions<br>lested S |  |  |
| 2د  | Name and Title of Person Completin  | ig Form                                 |                             |  |                                  |  |  |

Note All blanks must be filled or marked as not applicable

# SUMTER COUNTY LANDFILL APPLICATION FOR PERMIT TO OPERATE A SOLID WASTE RESOURCE RECOVERY AND MANAGEMENT FACILITY SUPPLEMENTAL INFORMATION C-103

#### 8 REPORT

#### 8g CONTINGENCY PLAN

The sanitary landfill is owned and operated by Sumter County can utilize equipment and personnel resources in the event of an emergency such as a fire or equipment failure

Fire Safety measures for fire prevention are employed at the landfill Highly combustible material can not be disposed at the site. Smouldering refuse ashes or cinders will be completely saturated with water at the entrance

The trench method of refuse disposal is favorable to fire control Earth is excavated in a linear direction and displaced above and along the edges of the trench Earth material can be hastily pushed over into the trench and extinguish any inflamed debris. Fire spreading beyond the trench area can proceed only a short distance due to the lack combustible material

If a fire becomes uncontrolable fire fighting equipment can be furnished by the Lake Panasoffkee Fire Department County water trucks and the Florida Forestry Service

Equipment Failure Sumter County will immediately replace any malfunctioning landfill equipment to insure uninterrupted waste disposal service Waste material will be temporarily stockpiled in an appropriate area until service is resumed

#### 8h RESPONSIBLE PERSONS

Landfill Operation Mr Garry Breeden Director of Public Works 209 North Florida Street Bushnell Florida Sumter County

<u>Landfill Site Supervisor Mr</u> William R Baker Site Attendant Sumter County Landfill Sumter County Florida

#### 81 GAS CONTROL PLAN

Methane Gas Landfill solid waste is a diversified mixture of inorganic and organic material and living organisms. The formation of methane gas from buried water involves the degradation of organic matter by microorganisms. The microbial activity is influenced by moisture and warm temperatures.

Under aerobic conditions organic matter is initially hydrolyzed by bacteria into soluble organic compounds. The compounds are then oxidized into carbon dioxide and water. The second process continues until the available oxygen is depleted. Under anaerobic conditions, the soluble organics are converted to organic acids carbon dioxide, and water. The organic acids are further reduced to methane and carbon dioxide.

Solid water deposited at the Sumter County Landfill decomposes under aerobic conditions since the underground waste cells are at least ten (10) feet above the maximum water table elevation. Precipitation infiltration through the earth cover is minimized due to the high clay content of the soil

Evidence of methane gas includes yellowed or decayed vegetation and small unexplained fires. These signs have not yet been observed at the landfill site or adjacent property

Presently methane gas production at the landfill is minimal and does not pose a safety hazard to landfill personnel and adjacent property owners If methane gas is discovered at the landfill the following steps will be initiated

- 1 <u>Gas investigation</u> A comprehensive gas investigation of the site with methane detection equipment to determine the location and concentration of gas
- Preventative measures The installation of vent pipes to alleviate gas accumulation. The vents will be installed just below the crown of each gas producing waste cell. Permanent gas detection devices will be installed to monitor the gas over a long time interval.

#### 8j OPERATIONAL PLAN

Disposal Method The sanitary landfill is carried out by the trench method that requires refuse to be compacted and covered daily. In the trench method oil for covering a compacted windraw of refuse is obtained by digging a trench 15 to 35 feet wide 100 to 400 feet long and at least 3 feet deep. The refuse is then placed in the trenches in layers 1 to 2 feet thick and 8 to 10 feet wide and compacted. Only enough length of windraw is built-up in this manner daily so that the full height is reached and sides and top are covered with soil at the end of the workday. Refuse is covered with a daily earth cover of 6 to 12 inches thick. The cover is increased to 2 feet when filling has been completed.

Dust and debris control Dust at the landfill is minimized by the high clay content of the soil cover and the existing paved road Dusty conditions can by promoted by prolonged dry weather wind and vehicular traffic If these conditions persist county personnel shall control dust by wetting problem areas with water trucks

Litter and debris are minimized by keeping the trench working face as small as possible during excavation covering and compaction. Natural vegetation and a perimeter fence confine debris on the landfill site. The landfill is regularly policed for litter.

#### 8k WASTE CONTROL PLAN

Inspection All private and public vehicles transporting refuse shall be stopped and inspected at the landfill entrance by a full-time gate attendant. Inspection shall determine the nature and volume of the refuse in the vehicles. Large metal items such as washing machines or automobiles shall not be accepted. The vehicles containing these items will be directed to a state approved metal yard. Wastewater sludge petrochemical and radioactive wastes are not permitted at the landfill. If these wastes are intecepted at the entrance, the attendant will initiate the following steps.

- 1 Persons transporting oil and oil by-products shall be directed to an oil recycling center or a Department of Transportation (DOT) garage or designated gasoline station where the liquid can be accepted
- 2 Persons transporting wastewater wastes and sludges shall be identified and questioned concerning the origin and nature of these wastes. The attendant shall then notify the County pollution agency and any other agencies having jurisdiction. These agencies shall decide the next course of action.
- 3 Persons carrying hazardous chemicals such as herbicides pesticides and acids shall be detained. The attendant shall immediately notify the sheriff's department and County Pollution Control agency. The Pollution Control agency shall decide the next course of action.

#### 9 WATER QUALITY STANDARDS

Long-term monitoring of the landfill well and adjacent property well reveals that the groundwater safely exceeds the State of Florida Department of Environmental Regulation (FDER) were quality standards. The evidence demonstrates that the design and operation of the landfill facility minimizes leachate generation and leakage through the confining layer of the Floridan Aquifer

If monitoring wells detect the movement of leachate away from the landfill and/or through the confinement layer the following steps will be initiated

- 1 Determination of the size and extent of the leachate flume by subsurface investigation
- 2 Analysis of the leachate to determine treatment strategies
- 3 If necessary treatment will consist of a wastewater recycle system that effectively neutralizes the leachate Other methods are not cost-effective since the landfill is near full-capacity

The wastewater recycle system will remove the leachate by well points After treatment by fixed-bed reactors the effluent will be injected into the ground to mix with the existing leachate. The diluted leachate will be continually circulated through the system to meet ground-water quality standards. A fixed-bed reactor uses plastic or wood media to anaerobically digest the waste stream. Methane gas is a by-product of this process.