FILE

Materials Recovery Facility
Operations Permit Renewal Application
Hardee County Landfill
Hardee County, Florida

SCS ENGINEERS

Prepared for:

Hardee County
Board of County Commissioners
412 West Orange Street
Wauchula, Florida 33873

Prepared by:

SCS Engineers
3012 U.S. Highway 301 N., Suite 700
Tampa, Florida 33619
(813) 621-0080

SCS Engineers
Florida Certificate of Authorization No. 00004892

File No. 09199033.15
June 28, 2005
Revised September 6, 2005

Environmental Consultants

3012 U.S. Highway 301 North
Suite 700
Tampa, FL 33619-2242

813 621-0080
FAX 813 623-6757

SCS ENGINEERS

September 6, 2005
File No. 09199033.15

Susan Pelz, P.E., Solid Waste Program Manager
Florida Department of Environmental Protection
3805 Coconut Palm Drive
Tampa, Florida 33619

Subject: Hardee County MRF Operation Permit Renewal
Pending permit #126620-002-SO/31

On behalf of the Hardee County Solid Waste Department, SCS Engineers (SCS) submits the following responses to your Memorandum to File, dated August 9, 2005. For ease of review, the FDEP comments are in **bold**, followed by our response.

The Department has received the Materials Recovery Facility operations Permit Renewal Application, Hardee County Landfill, Hardee County, Florida, dated June 28, 2005 (received June 28, 2005) prepared by SCS Engineers, Inc. In order to be considered a timely submittal pursuant to Rule 62-701.320(10)(a), F.A.C., the application was deemed complete when received. However, the application is insufficient as submitted. The applicant should provide the following information to support the application:

1. **Rule 62-701.300, F.A.C., Prohibitions. Please provide documentation that demonstrates that the operation of the facility will not violate the prohibitions of this Rule.**

   Response: Refer to Section C of the revised Engineering Report for a discussion of the MRF and prohibitions.

2. **Rules 62-701.320(5)(a), 62-701.710(2), F.A.C., Application Form.**

   a. **Item #A.5. Please provide a revised application form that includes the facility ID #SWD-25-40612.**

      Response: A revised application form, including the facility identification number is included in this resubmitted.

   b. **Item A.7. Please verify that the lat/longs provided represent the approximate center of the MRF building. It appears that the lat/longs provided on the application form and financial assurance documents are inconsistent. Please provide updated latitude/longitude for the facility.**

Response: A revised application form, including the facility identification number is included in this resubmitted.

3. **Rules 62-701.320(7), 62-701.710(2), 62-701.710(3) and 62-701.710(4), F.A.C. Responses to these items may be included in the comprehensive Operations Plan (as appropriate) requested in Comment #5 below.**

Section B.1. Please clarify if the waste will be reloaded when the "operator... instruct[s] the driver to the proper site...."

Response: Refer to Section B.1 of the resubmitted Engineering Report.

Please clarify what types of materials are not directed to the MRF.

Response: Only Class I waste and recycled material will be directed to the MRF. With the exception of pallets and sharps, all other non-processable materials are directed to separate areas of the Landfill. See Appendix F of the Operations Plan for a table that summarizes the materials directed to the MRF.

Please provide procedures for the management of these materials.

Response: The management of the materials not directed to the MRF are addressed in the landfill operations permit. If these materials are unintentionally directed to the MRF, they are segregated, directed to the appropriate area of the site, and handled in accordance with the landfill operations plan. See Appendix F of the Operations Plan for the management procedures followed at the MRF for all processable waste.

Please provide procedures for the management of industrial wastes at the site.

Response: No industrial wastes are managed at the MRF or the landfill, as industrial waste users have not been identified by the Hardee County Solid Waste Department. However, if an industrial user were to utilize the facility, the wastes would be managed under the landfill operations plan. If industrial wastes were found at the MRF, they would be segregated, directed to the appropriate area of the site, and handled in accordance with the landfill operations plan.

Please provide specific procedures for the management of unacceptable

wastes, including storage quantity, timeframe, method and location.

Response: Please refer to Appendix F of the Operations Plan for the management procedures of unacceptable and unprocessable waste at the MRF.

Please provide specific procedures for the recovery of each recyclable material, processing of residues and removal and management of unacceptable wastes and special wastes.

Response: Wastes, such as aluminum, glass, cardboard, metal, and wood pallets, are segregated from MSW at the MRF by inmate labor as outlined in the operation plan. Unprocessable wastes, such as electronic waste, household hazardous waste, toilets, and batteries are separated from the waste streams and then taken to the appropriate area of the site, these areas are outlined in Appendix F of the Operations Plan.

Unacceptable wastes are not permitted for disposal at the Hardee County Landfill. Should unacceptable waste be identified at the MRF, the following procedures are adhered to:

- If unacceptable wastes are discovered, the Solid Waste Director is immediately notified. The waste hauler or generator of the waste is contacted to retrieve and remove the unacceptable waste and instructed on the proper disposal.

- If the waste hauler or generator of the waste is unknown and the unacceptable waste that does not pose a threat to County staff, then the unacceptable waste may be stored, if containers and space are available, at the Household Hazardous Waste Collection Center (HHWCC) for temporary storage prior to being removed from the site and disposed of properly.

- If unacceptable wastes are of an unknown waste material or pose a threat to County staff or the waste hauler or generator is identified and the quantity of wastes cannot be moved or stored in the HHWCC, a front-end loader will isolate the unacceptable waste from other waste while keeping it within the lined area and marking it with applicable markers. The load will be covered with 6-mil Visqueen or waterproof tarp and a perimeter berm will be placed around the load to minimize contact with stormwater. The Visqueen rolls or plastic tarps are available at the Household Hazardous Waste Collection

Center. Hardee County will contact the person/entity who dumped the unacceptable waste and request removal within 48 hours. If the 48 hours expire without removal, Hardee County will contact an independent waste hauler for proper disposal of the waste at a permitted facility.

The MRF floors are sloped to promote drainage of leachate and residues from the deposited waste. The leachate is collected in a sump located adjacent to the west side of the MRF. The leachate is then pumped from the sump to the leachte tanks located by the Class I landfill via a pump.

Please specify the maximum number of bales of each material that will be stored at the facility.

Response: Refer to Appendix F of the Operations plan for a chart that summarizes the maximum amount of baled material that can be stored at the MRF.

Please explain why plastics and cardboard that have been pulled from the waste are required to be re-sorted before baling.

Response: Cardboard is separated from the waste stream and stored along the east side of the building for approximately one week. The cardboard is then brought back into the MRF and sorted one additional time prior to baling. The material is examined twice to ensure that the material is fully segregated, and the cardboard must pass thru the conveyors and spotters in order to be baled.

At this time, plastic is no longer segregated from MSW at the MRF due to the declining market value. Plastics are baled with other MSW and buried in the Class I landfill. If the market value of plastics changes, Hardee County will resume the plastics recovery at the MRF.

Please specify the estimated waste volumes that will be managed in the MRF and provide the basis for the projections.

Response: Refer to Table B-2 of the Engineering Report for a chart that summarizes the estimated annual waste volumes that are managed at the MRF. The waste quantities were estimated on a per-capita basis.

a. **Section B.3.c. Please provide procedures for the management, storage and disposal of bulky wastes.**

Response: Bulky materials classified as processable, such as furniture and mattresses, are stored on the paved storage area to the south of the MRF until enough material accumulates to be baled. The baled material is then disposed of in the Class I landfill.

Bulky materials that are considered non-processable, yet are acceptable, are taken directly to the Class I landfill for disposal.

b. **Section B.4. Please provide procedures for inspection, cleaning and maintenance of the facility, including the leachate management system, building, equipment, floors, etc. Please provide a sample inspection log form.**

Response: The MRF is maintained and cleaned on a daily basis. The floors and drain crates are pressure washed on a daily basis. The floors are also pressure washed twice a week. The conveyor belts and baler is pressure washed on a daily basis.

On a weekly basis, the leachate collection system at the MRF is pressure washed. The wash water for all the cleaning at the MRF is collected in the sump and pumped to the leachate tanks.

Refer to Appendix G of the Operations Plan for a weekly inspection/maintenance checklist for the MRF.

c. **Section B.5.a. Please specify the criteria for determining if a load is "classified a acceptable waste."**

Response: The load is considered acceptable if it does not include any non-acceptable materials. The non-acceptable materials are outlined in Appendix F of the Operations Plan. All unacceptable waste is managed as described in the landfill operations plan.

Should a load of unacceptable waste unintentionally be directed to the MRF, the load is immediately segregated, and handled in accordance with the landfill

operations plan.

d. **Section B.5.b. Please clarify if the waste will be spotted before being pushing into the conveyor pit.**

Response: A trained spotter is at the MRF when all material is unloaded onto the MRF tipping floor and also when the waste is pushed in to the conveyor pit.

e. **Section B.6. Please specify the waste types that are considered "non-processable."**

Response: Please refer to Appendix F of the Operations Plan for a chart of materials considered to be non-processable.

Please clarify if all unacceptable wastes are "diverted to the household hazardous waste collection center.

Response: Unacceptable wastes are not diverted to the HHWCC. The procedure for handling these materials are provided in Appendix F of the Operations Plan. Should unaccepted waste be identified at the MRF, the following procedures are adhered to:

- If unacceptable wastes are discovered, the Solid Waste Director is immediately notified. The waste hauler or generator of the waste is contacted to retrieve and remove the unacceptable waste and instructed on the proper disposal.

- If the waste hauler or generator of the waste is unknown and the unacceptable waste that does not pose a threat to County staff, then the unacceptable waste may be stored, if containers and space are available, at the Household Hazardous Waste Collection Center (HHWCC) for temporary storage prior to being removed from the site and disposed of properly.

- If unacceptable wastes are of an unknown waste material or pose a threat to County staff or the waste hauler or generator is identified and the quantity of wastes cannot be moved or stored in the HHWCC, a front-end loader will isolate the unacceptable waste from other waste while keeping it within the lined area and marking it with applicable markers. The load will be covered

with 6-mil Visqueen or waterproof tarp and a perimeter berm will be placed around the load to minimize contact with stormwater. The Visqueen rolls or plastic tarps are available at the Household Hazardous Waste Collection Center. Hardee County will contact the person/entity who dumped the unacceptable waste and request removal within 48 hours. If the 48 hours expire without removal, Hardee County will contact an independent waste hauler for proper disposal of the waste at a permitted facility.

Please provide procedures for the management of each type of special waste and unacceptable waste that may be received at the facility (e.g., red bags, mercury switches, used oil, septic tank sludge, etc.).

Response: See the response to the previous question.

f. **Attachment B-2. Please provide a revised table that includes all unprocessed and processed materials, recyclable material, unauthorized wastes and special wastes that may be stored at the MRF at any time. The table should include type of material, storage method and location, maximum quantity and timeframe for removal.**

Response: Refer to Appendix F for a chart that summarizes the unprocessed, processed, recyclable, and special wastes that may be stored at the MRF. Unacceptable wastes and/or unauthorized wastes are not stored at the MRF.

g. **Attachment B-4. Please provide a signed and sealed boundary survey.**

Response: Refer to Attachment B-4 of the resubmitted Engineering Report for a signed and sealed boundary survey.

h. **Attachment B-8. Please include all equipment in the equipment list and provide manufacturer's specification sheets for all equipment.**

Response: Refer to Attachment B-8 of the resubmitted Engineering Report for a list of the equipment at the MRF.

4. **Rules 62-701.320(7)(f), 62-701.710(2) and 62-701.710(3), F.A.C.**

a. **Please provide a plan sheet that shows the traffic patterns in the MRF facility.**

Response: Refer to Appendix H of the Operations Plan for schematic drawings of the MRF to include the approximate traffic patterns in the MRF.

b. **Attachment B-3. Please provide a site plan that shows all equipment, access lanes, tipping areas, processed and unprocessed material storage areas, leachate management system, fire protection, loading dock area, etc.**

Response: Refer to Appendix H of the Operations Plan for schematic drawings of the MRF to include the equipment, access lanes, tipping areas, processed and unprocessed material storage areas, leachate management system, fire protection, loading dock area, etc.

c. **Please provide plan sheets signed and sealed by a professional engineer or land surveyor as appropriate.**

Response: Refer to Appendix H of the Operations Plan for schematic drawings of the MRF that are signed and sealed by a professional engineer.

5. **Rule 62-701.710(2), 62-701.710(3), and 62-701.710(4), F.A.C. Operations Plan (Attachment B-5)**

a. **It appears that the Operations Plan submitted largely addresses the landfill operations and does not include all relevant information for the MRF. Please provide a revised, comprehensive Operations Plan that addresses the following comments and Comment #3, above. Please be reminded that portions of the Operations Plan that pertain to the landfill operation must be consistent with the information submitted as part of the pending landfill expansion permit application.**

Response: Acknowledged

b. **Please provide start up and shut down procedures.**

Response: Refer to Appendix I of the Operations for the start up and shut down procedures of the baler and corresponding equipment.

Please provide procedures for the management of recyclables, unauthorized wastes, special wastes and residues. The procedures must include, but not

be limited to handling procedures, spotting requirements, storage quantities and time, and final disposition of each material.

Response: Please refer to Appendix F of the Operations Plan for the handling procedures, spotting requirements, storage quantities and time, and final disposition of non-processable material, recyclable, and non-acceptable material.

c. **Please provide leachate management procedures, including inspection, cleaning maintenance of drains, lift station, and loading dock pump, etc.**

Response: Refer to Appendix G of the Operations Plan for a weekly inspection/maintenance checklist for the MRF.

d. **Landfill Shutdown (page 5). Please specify the conditions under which the landfill would be shut down.**

Response: The landfill will be closed in case of fire, explosions, hurricane or high wind conditions, which make the landfill working face dangerous to access. Additionally the landfill will be shut down when the landfill reaches permitted capacity.

Please provide calculations that demonstrate that the MRF has 7 days' storage capacity for all incoming wastes. Please explain how odor and vectors will be prevented if waste is stored in the MRF for 7 days.

Response: Please note that the text within the "Landfill Shutdown" portion of the Operations Plan has been changed from seven days storage time to three days storage time, which is the permitted duration that Hardee County is allowed to store waste within the MRF.

The baled waste will be stored in the MRF and MRF processing area with protective cover consisting of 6-mil Visqueen or other waterproof tarp. The Visqueen or tarp will be secured to the bales to prevent rainfall from entering the bales and to control vectors and odors.

e. **Controlling Types of Waste Received (page 6). Please clarify if the random inspections of loads are performed at the landfill or at the MRF.**

Response: Three random load inspections are performed on weekly basis. The inspections are performed thru out the facility, at the MRF as well as the working face of the landfill. A trained spotter inspects the loads as they are dumped on the MRF floor.

f. **Procedures for handling Unacceptable or improperly Placed Waste Loads (page 7). Please explain how haulers are "instructed on the proper disposal" of unacceptable wastes.**

Response: Waste haulers are verbally instructed on the proper disposal of unacceptable wastes. If the source of the unacceptable waste is commercial, the waste hauler is given the contact information for EQ Florida, Inc., a hazardous waste disposal company. The EQ contact information is as follows:

Phone: (813-767-9991)
Location: 7202 East 8th Avenue
Tampa, FL 33619

If the source of the unacceptable waste is residential, the resident is informed of the County's HHW collection days.

g. **Appendix E. Please provide a contingency plan for waste handling in the event of fires, explosions, natural disasters, etc.**

Response: In the event of a fire, explosion, natural disaster, etc., has affected the electricity at the MRF, the scalehouse operators will direct the waste loads to the Class I landfill for compaction and disposal by conventional landfill methods. If the Hardee County landfill cannot accept waste in the event of fires, explosions, natural disasters, etc, the County has 90-day renewable agreements with Omni - St. Cloud or Waste Management – Okeechobee. These facilities will accept the County's class I waste, recyclables, and construction and demolition debris.

h. **Please describe how the scrap metal pile and white goods will be managed in such a way that discharges to the environment are prevented.**

Response: The scrap metal pile and white goods area are managed under the landfill operations permit.

i. **Please provide training documentation for all certified operators and spotters for the facility.**

Response: Refer to Appendix A of the Operations Plan for training documentation for all the operators and spotters at the MRF.

6. **Rule 62-701.710(7), F.A.C. Please provide revised financial assurance cost estimates for the MRF that include the costs for a third-party to load, haul and dispose of the maximum quantity of processed and unprocessed wastes, residues, recyclables, unauthorized wastes and special wastes.**

Response: Please refer to the financial assurance cost estimate submitted to Steve Morgan of FDEP, on August 1, 2005. Since the maximum baled storage quantity has been reverted back to the three day period, the financial assurance estimates are valid and do not require change.

7. **Rule 62-701.710(8), F.A.C. Please provide a copy of a current valid permit for stormwater management at the MRF.**

Response: The valid stormwater management permit for the MRF is Southwest Florida Water Management District (SWFWMD) permit number 407767.01. A Management and Storage of Surface Water (MSSW) permit is a permit that does not expire for the life of this facility. Therefore, the expiration date shown on the permit submitted in Attachment B-7 of the Operations Plan is the expiration date that construction should be completed. As shown on the MSSW permit, the facility has been authorized for operation by the markings labeled "Transferred to Operation Phase."

8. **Rule 62-701.710(6), F.A.C. Please provide a closure plan for the facility.**

Response: Refer to Section B.10 of the resubmitted Engineering Report for a detailed closure plan.

Please contact us should you have questions or need additional information.

Sincerely,

Lindsey Kennelly

Lindsey E. Kennelly, E.I.
Project Engineer
SCS ENGINEERS

LEK/CEH:lek

Charles E. Hilton

C. Ed Hilton, P.E.
Project Director
SCS ENGINEERS

9/06/05

CHARLES E. HILTON JR. * PROFESSIONAL ENGINEER * STATE OF FLORIDA * LICENSE NO. 46916

Florida Department of Environmental Protection
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

DEP Form # 62-701.900(4)
Form Title Application to Construct, Operate or Modify a Waste Processing Facility
Effective Date 05-27-01

DEP Application No. _____
(Filled by DEP)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

APPLICATION FOR PERMIT TO CONSTRUCT, OPERATE OR MODIFY A WASTE PROCESSING FACILITY

GENERAL REQUIREMENT: Solid Waste Management Facilities shall be permitted pursuant to Section 403.707, Florida Statutes, (F.S.) and in accordance with Florida Administrative Code (F.A.C.) Chapter 62-701. A minimum of four copies of the application shall be submitted to the Department District Office having jurisdiction over the facility. The appropriate fee in accordance with Rule 62-701.315(4), F.A.C., shall be submitted with the application by check made payable to the Department of Environmental Protection (DEP). Complete appropriate sections for the type of facility for which application is made and include all additional information, drawings, and reports necessary to evaluate the facility.

RECEIVED
SEP 06 2005
Department of Environmental Protection
BY SOUTHWEST DISTRICT

Please Type or Print in Ink

A. GENERAL INFORMATION

1. Type of facility (check all that apply):
   - [ ] Transfer Station
   - [✓] Materials Recovery Facility:
     - [ ] C&D Recycling
     - [ ] Class III MRF
     - [✓] MSW MRF
     - [ ] Other Describe: _____
   - [✓] Volume Reduction Facility
     - [ ] Pulverizer/Shredder
     - [✓] Compactor/Baling
     - [ ] Other Describe: _____

NOTE: C&D Disposal facilities that also recycle C&D, shall apply on DEP FORM 62-701.900(6), F.A.C.

2. Type of application:
   - [ ] Construction/Operation
   - [✓] Operation Without Additional Construction

3. Classification of application:
   - [ ] New
   - [✓] Renewal
   - [ ] Substantial Modification
   - [ ] Intermediate Modification
   - [ ] Minor Modification

4. Facility name: Hardee County Material Recovery Facility

5. DEP ID number: SWD-25-40612 County: Hardee

6. Facility location (main entrance): 685 Airport Road, Wauchula, FL 33873

7. Location coordinates:

   Section: 35 Township: 33S Range: 25E

   UTMs: Zone _____ _____ km E _____ km N

   Latitude: 27 ° 33 ' 59.7 " Longitude: 81 ° 46 ' 46.7 "

8. Applicant name (operating authority): Hardee County Board of County Commissioners

Mailing address: 412 West Main Street | Wauchula | FL | 33873
Street or P.O. Box | City | State | Zip

Contact person: Teresa Carver Telephone: (863) 773-5089

Title: Solid Waste Director Teresa.carver@hardeecounty.net
E-Mail address (if available)

9. Authorized agent/Consultant: SCS Engineers

Mailing address: 3012 U.S. Highway 301 N.,Ste. 700, Tampa | FL | 33619
Street or P.O. Box | City | State | Zip

Contact person: C. Ed Hilton Telephone: (813) 621-0080

Title: Project Director ehilton@scsengineers.com
E-Mail address (if available)

10. Landowner(if different than applicant): Same as applicant

Mailing address: _____
Street or P.O. Box | City | State | Zip

Contact person: _____ Telephone: (___) _____

_____
E-Mail address (if available)

11. Cities, towns and areas to be served: Hardee County, including its municipalities

12. Date site will be ready to be inspected for completion: N/A

13. Estimated costs: N/A

Total Construction: $ _____ Closing Costs: $ _____

14. Anticipated construction starting and completion dates:

From: _____ To: _____

15. Expected volume of waste to be received: _____ yds^3/day 68 tons/day

16. Provide a brief description of the operations planned for this facility:
Recyclables are separated from Class I wastes received on site. The remaining waste is baled and disposed of in the landfill.

B. ADDITIONAL INFORMATION

ease attach the following reports or documentation as required.

1. Provide a description of the solid waste that is proposed to be collected, stored, processed or disposed of by the facility, a projection of those waste types and quantities expected in future years, and the assumptions used to make the projections (Rule 62-701.710(2)(a), F.A.C.).

2. Attach a site plan, signed and sealed by a professional engineer registered under Chapter 471, F.S., with a scale not greater than 200 feet to the inch, which shows the facility location, total acreage of the site, and any other relevant features such as water bodies or wetlands on or within 200 feet of the site, potable water wells on or within 500 feet of the site and wells serving community water supplies on or within 1000 feet of the site (Rule 62-701.710(2)(b), F.A.C.).

3. Provide a description of the operation and functions of all processing equipment that will be used, with design criteria and expected performance. The description shall show the flow of solid waste and associated operations in detail, and shall include (Rule 62-701.710(2)(c), F.A.C.):
   a. Regular facility operations as they are expected to occur;
   b. Procedures for start up operations, and scheduled and unscheduled shut down operations; and
   c. Potential safety hazards and control methods, including fire detection and control.

4. Provide a description of the design requirements for the facility which demonstrate how the applicant will comply with Rule 62-701.710(3), F.A.C.

5. Provide a description of the loading, unloading, storage and processing areas (Rule 62-701.710(2)(d), F.A.C.).

6. Provide the identification and capacity of any on-site storage areas for recyclable materials, non-processable wastes, unauthorized wastes, and residues (Rule 62-701.710(2)(e), F.A.C.).

7. Provide a plan for disposal of unmarketable recyclable materials and residue, and for waste handling capability in the event of breakdowns in the operations or equipment (Rule 62-701.710(2)(f), F.A.C.).

8. Provide a boundary survey, legal description, and topographic survey of the property(Rule 62-701.710(2)(g), F.A.C.).

9. Provide an operation plan which describes how the applicant will comply with Rule 62-701.710(4), F.A.C. (Rule 62-701.710(2)(h), F.A.C.).

10. Provide a closure plan which describes generally how the applicant will comply with Rule 62-701.710(6), F.A.C. (Rule 62-701.710(2)(I). F.A.C.).

11. Unless exempted by Rule 62-701.710(10(a), F.A.C., provide the financial assurance documentation required by Rule 62-701.710(7), F.A.C. (Rule 62-701.710(2)(j), F.A.C.).

12. Provide documentation to show that stormwater will be controlled according to the requirements of Rule 62-701.710(8), F.A.C.

13. Provide documentation to show that the applicant will comply with the recordkeeping requirements of Rule 62-701.710(9), F.A.C.

C. **CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER**

Applicant:

The undersigned applicant or authorized representative of Hardee County _____ is aware that statements made in this form and attached information are an application for a MRF Operating Permit from the Florida Department of Environmental Protection and certifies that the information in this application is true, correct and complete to the best of his/her 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.

Teresa Carver
Signature of Applicant or Agent

Teresa Carver, Solid Waste Director
Name and Title (please type)

Teresa.carver@hardeecounty.net
E-Mail address (if available)

685 Airport Road
Mailing Address

Wauchula, FL 33873
City, State, Zip Code

(863) 773-5089
Telephone Number

Date: _____

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

2. Professional Engineer registered in Florida (or Public Officer if authorized under Sections 403.707 and 403.7075, Florida Statutes):

This is to certify that the engineering features of this waste processing facility have been designed/examined by me and found to conform to engineering principles applicable to such facilities. In my professional judgment, 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.

Charles E. Hilton
Signature

C. Ed Hilton, P.E., Project Director
Name and Title (please type)

CHARLES E. HILTON JR. LICENSE NO. 46916 STATE OF FLORIDA PROFESSIONAL ENGINEER

46916
Florida Registration Number
(please affix seal)

SCS Engineers
3012 U.S. Highway 301 N., Suite 700
Mailing Address

Tampa, FL 33619
City, State, Zip Code

chilton@scsengineers.com
E-Mail address (if available)

(813) 621-0080
Telephone Number

Date: 6 September 2005

C. CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

1. Applicant:

The undersigned applicant or authorized representative of Hardee County

_____ is aware that statements made in this form and attached information are an application for a MRF Operating Permit from the Florida Department of Environmental Protection and certifies that the information in this application is true, correct and complete to the best of his/her 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.

Teresa Carver
Signature of Applicant or Agent

Teresa Carver, Solid Waste Director
Name and Title (please type)

Teresa.carver@hardeecounty.net
E-Mail address (if available)

685 Airport Road
Mailing Address

Wauchula, FL 33873
City, State, Zip Code

(863) 773-5089
Telephone Number

Date: 6/23/05

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

2. Professional Engineer registered in Florida (or Public Officer if authorized under Sections 403.707 and 403.7075, Florida Statutes):

This is to certify that the engineering features of this waste processing facility have been designed/examined by me and found to conform to engineering principles applicable to such facilities. In my professional judgment, 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.

Charles E. Hilton
Signature

C. Ed Hilton, P.E., Project Director
Name and Title (please type)

46916
Florida Registration Number

(please affix seal)

CHARLES E. HILTON JR LICENSE NO. 46916 STATE OF FLORIDA PROFESSIONAL ENGINEER

SCS Engineers
3012 U.S. Highway 301 N., Suite 700
Mailing Address

Tampa, FL 33619
City, State, Zip Code

chilton@scsengineers.com
E-Mail address (if available)

(813) 621-0080
Telephone Number

Date: 28 June 2005

ENGINEERING REPORT
FOR
HARDEE COUNTY
MATERIALS RECOVERY FACILITY

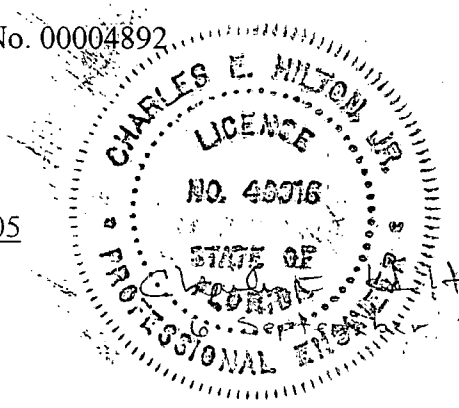
Prepared by:

SCS Engineers
3012 U.S. Highway 301 North
Suite 700
Tampa, Florida 33619
(813) 621-0080
Fax (813) 623-6757

Prepared for:

Hardee County
Solid Waste Department
685 Airport Road
Wauchula, Florida
(863)-773-5089

SCS Engineers
Florida Certificate of Authorization No. 00004892



File No. 09199033.15
June 28, 2005
Revised September 6, 2005

TABLE OF CONTENTS

CONTENTS (Continued)

Section **Page**

Attachments

SECTION A

GENERAL INFORMATION

Hardee County (County) owns and operates the Hardee County Landfill under Florida Department of Environmental Protection (FDEP) Permit Number 38414-002-SO, modification 38414-006). The facility~~landfill~~ is located on Airport Road, approximately one mile north of State Road 636, in Wauchula, Florida. This application is for the renewal of the operation permit for the materials recovery facility (MRF), located onsite.

This permit application has been prepared in accordance with applicable sections of Rule 62-701 F.A.C., and provides the required facility information for agency review and approval.

The information required for Part A of the permit application is included on the application form.

SECTION B

ADDITIONAL INFORMATION

B.1 COLLECTION PROCESS FOR RECYCLABLES

Hardee County operates a MRF, which serves a number of purposes for the Solid Waste Department. This facility allows the Solid Waste Department to provide the County with a waste reduction/recycling method for the Class I Landfill by segregating the recyclables from the non-recyclable waste, baling non-recyclable waste, and thus reducing the space consumed in the Class I Landfill. It also provides the County with a very effective method for screening waste.

Residents of Hardee County are asked to segregate recyclables and place in transparent bags. The recyclables are pick-up along the curb with other residential municipal solid waste (MSW) or brought to the landfill by residents. An educational brochure explaining the types of waste that can be recycled is located in Attachment B-1.

Upon entering the Solid Waste Facility, each vehicle must register at the scale house. The vehicle is weighed, classified, and assigned a destination. To do so, the weighmaster will ask the driver about the contents of the load and visually inspect the load to determine the appropriate classification. If classification or destination can not be determined at this point, the weighmaster will direct the driver to one of the MRF operators to inspect the load further. If the load is classified as residential, commercial, or perhaps mixed, it will be sent to the MRF.

The following loads are classified at the scalehouse and directed to the respective part of the facility:

- Household hazardous waste (HHW) is directed to the Household Hazardous Waste Collection Center (HHWCC) located southeast of the MRF. HHW is considered special waste, such as used oil, paint, lead acid batteries, and florescent lightbulbs.

- Asbestos is only accepted at the site in sealed bags. At the scalehouse, asbestos is directed to the working face of the landfill. Refer to the landfill operations permit for asbestos handing at Hardee County Landfill.

- White goods are diverted to the white goods storage area. Refer to the landfill operations permit for white goods handing at Hardee County Landfill.

- Scrap metal is diverted to the scrap metal storage area. Refer to the landfill operations permit for scrap metal handing at Hardee County Landfill.

- Yard waste is directed to the yard waste pile. Refer to the landfill operations permit for yard waste handing at Hardee County Landfill.

If these materials are unintentionally directed to the MRF, they are segregated, directed to the appropriate area of the site, and handled in accordance with the landfill operations plan.

~~1.~~Upon entering the MRF, vehicles are instructed to dump their waste onto the tipping floor. The Resource Recovery Operators ~~will~~ observe the contents of the load and checks for unacceptable materials. Should the operator observe materials that are acceptable, but should have been sent to one of the other sites in the landfill, the acceptable waste will be reloaded into the resident's vehicle and the operator will instruct the driver to the proper location within the site and explain the proper way to segregate their waste. Should the operator observe unacceptable waste, the solid waste superintendent ~~or a trained landfill operator~~ will be notified for further instructions.

MATERIALS RECOVERED FROM THE MRF

Loads that are directed to the Material Recovery Facility for processing are backed into the building through two of eight roll-up doors. The loads are emptied onto the tipping floor of the facility. Inmates from Hardee Correctional Institute (the local state prison) are instructed to pull and segregate all accessible corrugated cardboard from the tipping floor. The load is then loaded onto a conveyor belt and recyclable materials are segregated from the MSW.

Glass --

Glass is segregated from other recyclables and MSW, and then sorted by color (clear and amber). After the glass has been segregated into designated carts, the carts are tipped into a 25 cubic yard roll-off dumpster, provided by the vendor. The roll-off is stored on the paved southwest corner of the facility. The glass is stored until sufficient quantities accumulate; which is approximately two to three months storage time. The vendor is contacted once the roll-off has reached its maximum capacity.

Metals --

Commingled aluminum and bi-metal cans are segregated from other recyclables and MSW ~~and then sent through a magnetic separator~~. The aluminum and bi-metal cans are separated and re-deposited into their respective plastic bins; the plastic bins have covers and are stored outside.

On a weekly basis, the metals are sent thru the magnetic separator to provide thorough segregation from other materials and to remove any contaminants that may have been missed. Once the aluminum has been sorted and baled, it is stored inside the facility until sufficient quantities accumulate for marketing, which varies from four to six months. Baled bi-metal cans are transported to the scrap metal area, located onsite. They may be stored at the metal site for three to six months.

Plastics --

Plastics are commingled and stored in an outside storage area, located on the paved southwest corner of the facility. Once a week, a bobcat loader transports the material back onto the

tipping floor where it is re-examined for unacceptable materials; the plastics are then baled. Bales of plastic will be stored on the paved south side of the facility until sufficient quantities accumulate for market.

At this time, plastic is no longer segregated from MSW at the MRF due to the declining market value. Plastics are baled with other MSW and buried in the Class I landfill. If the market value of plastics change, Hardee County will resume the plastics recovery at the MRF.

Paper --

Newsprint is accepted only if it is brought to the landfill already separated from other MSW. The markets require that all newsprint be clean and dry. Newsprint and paper are stored in a box trailer provided by the vendor for approximately one to three months until the trailer is full. The trailer is located at the northeast corner of the MRF

Corrugated Cardboard --

Loose corrugated cardboard is stored in a secure, fenced area connected to the east door of the MRF. Once a week the corrugated cardboard is re-sorted and then baled. The material is examined twice to ensure that the material is fully segregated and the cardboard must pass thru the conveyors and spotters in order to be baled.

Bales are stored on the south pavement outside the MRF until sufficient quantities accumulate for market, which is approximately 30 bales; it takes approximately ~~two~~ one to three months to accumulate 30 bales.

Refer to Attachment B-2 for a chart that summarizes the storage methods and storage time.

Unacceptable Wastes –

Unacceptable wastes, such as electronic waste, paint cans, toilets, and batteries are separated from the waste streams that are destined for the landfill or for recovery. Refer to Attachment B-2 for a chart that summarizes the type of unacceptable waste.

WASTE PROJECTIONS

The facility projections are based on current and future population estimates for Hardee County. The population estimates were obtained from the Florida Legislative Office of Economic and Demographic Research (FLOEDR). The population data from the FLOEDR for Hardee County in 2004 was estimated to 28,178. Projections were made by the FLOEDR through 2011. From 2011 through 2026, SCS used the rate of population increase, approximately 1.3 percent, to estimate the future population of Hardee County. Population projections for Hardee County are provided in Table B-1.

TABLE B-1 SERVICE AREA POPULATION
HARDEE COUNTY LANDFILL

YEAR	SERVICE AREA POPULATION
2004	28,178
2005	28,756
2006	29,270
2007	29,712
2008	30,111
2009	30,484
2010	30,866
2011	31,268

TABLE B-2 RECYCLABLE PROJECTION BASED ON POPULATION
HARDEE COUNTY LANDFILL

Material	2002 Quantity (CY)	2003 Quantity (CY)	2004 Quantity (CY)	2005 Quantity (CY)	2006 Quantity (CY)	2007 Quantity (CY)	2008 Quantity (CY)	2009 Quantity (CY)	2010 Quantity (CY)
Tires	118	81	110	111	113	114	115	117	119
Scrap Metal	620	572	1,218	1,234	1,250	1,267	1,283	1,300	1,317
Cardboard	0	73	53	74	75	76	77	78	79
Batteries	4	19	21	21	21	22	22	22	22
Clear Glass	11	23	0	23	23	24	24	24	25
Amber Glass	40	34	9	34	34	35	35	36	36
Aluminum	7	10	2	10	10	10	10	10	10
Newsprint	12	6	0	6	6	6	6	6	6

2005 quantities have been estimated based on 2003 and 2004 data; the highest value was used from the 2003 to 2004 data in order to be conservative. A 1.3 percent growth factor was used.

B.2 FACILITY SITE PLAN

Refer to Attachment B-3 for a site plan of the Hardee County Landfill and areas surround the MRF.

B.3 EQUIPMENT OPERATION AND FUNCTION

The MRF processing equipment is used to move, segregate, and bale authorized wastes. The equipment is designed for these landfilling operations.

B.3.a Loader

All waste that is diverted to the MRF is moved onto the conveyor belts by a Bobcat Loader, Model 863. The loader is equipped to move the MSW from the unloading bay within the MRF.

B.3.b Conveyor Belts

Inmates are stationed at each side of the conveyor belt and instructed to segregate recyclable materials. The recyclable is dropped down the appropriate chute where it is deposited into the appropriate container. The MRF contains a system of three conveyor belts:

- An inclined steel belt conveyor: The waste is pushed onto the inclined conveyor belt and moves the MSW up to an elevated platform. The inclined conveyor belt is approximately 60 feet long by six feet wide.

- A ~~20-foot~~20-foot rubber belt conveyor allows inspection for recyclable removal from MSW.

- A ~~40-foot~~40-foot rubber belt conveyor allows inspection for recyclable removal from MSW.

B.3.c Baler

The MRF is equipped with a Harris Badger Baler. The bale output is approximately 31" x 46" x 61" in size with an average weight of 2150 pounds. Wastes excessively dirty and/or contaminated recyclables, non-recyclables, plastic bags and other residuals, are baled at the MRF and then transported to the Class I landfill for disposal.

Dry and clean recyclable materials are picked from the waste materials and placed in separate bins for collection by the private collector for delivery to offsite recycling markets.

~~Large items such as mattresses and other furniture, such as sofas, chairs, tables, etc. separated from the waste prior to being baled. The large items are fed into the baler separately and baled for disposal. Once the waste is baled it is transported to the Class I disposal area, via truck, for disposal.~~
Bulky materials classified as processable, such as furniture and mattresses, are stored on the paved storage area to the south of the MRF until enough material accumulates to be baled. The baled material is then disposed of in the Class I landfill.

Bulky materials that are considered non-processable, but are acceptable wastes, and are taken directly to the Class I landfill for disposal.

B.3.d Fire Control Plan

In the event of fire, the responding agency is the Hardee County Fire and Rescue Service, located approximately three miles west of the site, in Wauchula, FL. Additionally, the landfill site is equipped with a dry fire hydrant located adjacent to the pond immediately north of the scalehouse for the filling of pump trucks. Four water hydrants are located along the eastside of Class I landfill, on the eastside of the entrance road. Fire extinguishers are located in the equipment and at the maintenance barn for use in the event of small fires. There are also six fire extinguishers and five hose bibs located in the on-site MRF.

B.4 DESIGN REQUIREMENTS

In accordance with 62-701.710(3), F.A.C., the tipping, processing, sorting, and compactions areas are located in an enclosed building equipped with a ventilation system. Any leachate generated within the MRF is collected in grates and pumped to the leachate storage tanks via a leachate forcemain.

The covered area of the MRF is approximately 2.6 acres in size; the facility has approximately 3,000 square feet (sf) of covered storage area for incoming waste, baled waste, and recyclables. The MRF was sized in order to accommodate the waste streams.

The MRF is maintained and cleaned on a daily basis. The floors are pressure washed on a daily basis. The floors are also pressure washed twice a week. The conveyor belts and baler is pressure washed on a daily basis.

On a weekly basis, the leachate collection system at the MRF is pressure washed. The wash water for all the cleaning at the MRF is collected in the sump and pumped to the leachate tanks.

B.5 PROCESSING AREA DESCRIPTION

The MRF processing area serves as the unloading bay for residential and commercial waste and the loading area for the baler.

B.5.a Unloading

Once a load has been classified as acceptable waste, the vehicle is directed to the MRF. Commercial trucks are unloaded with automatic mechanisms located on the vehicle; residential vehicles are unloaded by their respective drivers. The vehicles are backed into the building through two of eight roll-up doors. The loads are emptied onto the tipping floor of the facility.

B.5.b Loading

A trained spotter is at the MRF when all material is unloaded onto the MRF tipping floor and also when the waste is pushed in to the conveyor pit. The waste is pushed ~~onto a~~ into the ~~conveyor~~ conveyor pit ~~belt~~ for segregation with a Bobcat Loader. Refer to Section B.3 of this document for an explanation of loading the conveyor belts and baler.

B.5.c Storage

Refer to Section B.6 of this document for a summary of the materials that are stored within the MRF.

B.6 STORAGE AREAS

Storage of materials within the MRF is minimal. The MRF is used to segregate recyclables from MSW.

Recyclable Materials --

Recyclable material is kept onsite until appropriate quantities have been obtained for the vendor to retrieve. Refer to Section B.1 for a description of the storage containers and the locations in which the recycled materials are kept.

Non-Processable Wastes --

The non-processable wastes are baled and disposed of in the Class I landfill. Refer to Attachment B-2 for a chart that summarizes the types of wastes that the MRF cannot process.

In the event that the bales must be stored within the MRF, they are kept within the covered building to prevent the contamination of stormwater. The bales are stored for a minimal amount of time until they can be landfilled.

~~Unauthorized~~ Unacceptable Wastes –

~~Unauthorized wastes are diverted to the Household Hazardous Waste Collection Center (HHWCC), located southeast of the MRF. The HHWCC is comprised of a roofed building with a curb in order to promote spill containment. The HHWCC is used for the temporary storage of special wastes such as used oil, paint, lead acid batteries, florescent lightbulbs, and household hazardous wastes. Used oil is consolidated into two double-walled oil storage tanks. Lead acid batteries are stacked three high on pallets, with cardboard placed between each layer, and then shrink wrapped when pallets are full. Private contractors are hired for the removal of the special wastes such as the used oil, paint, lead acid batteries, and fluorescent light bulbs. The maximum onsite storage and frequency for removing these recyclable from the site is as follows:~~

- ~~Used oil (up to 700 gallons) is removed monthly,~~
- ~~Paints (up to 100 gallons) removed quarterly,~~
- ~~Batteries (up to 140 batteries) removed quarterly,~~
- ~~Light bulbs (Up to 400) are to be removed at least every 6 months, and~~
- ~~Household Hazardous Waste (up to 50 gallons and 250 pound bags of chemicals) to be removed quarterly.~~

~~Household hazardous waste is defined as discarded, small quantity residential waste (less than 220 lbs.) which is either listed by the U.S. Environmental Protection Agency (EPA) in its hazardous waste regulations or exhibits one of the four (4) following hazardous characteristics:~~

- ~~Ignitability – It may catch fire.~~
- ~~Corrosivity – It can damage other materials (including human tissue) on contact.~~

~~□Reactivity - It reacts violently with water and may catch fire or explode.~~

- ~~Toxicity - It may cause illness or health problems if handled incorrectly.~~

Neither the landfill or the MRF does not accept closed or sealed containers; all drums, tanks and cans must have one end open and must have been flushed. Other unacceptable wastes include septic tank sludge; paint thinners; gasoline or like liquids; biomedical waste from hospitals, doctor's offices or clinics. The facility does not accept any materials that the hauler cannot identify the composition of nor supply certification that the material is non-hazardous waste. Disposal of liquids or non-liquid (soils, rags, or other debris) containing PCB's (polychlorinated biphenyl) are not accepted at the facility for disposal or storage. Solid wastes generated from outside the borders of Hardee County are not accepted without prior written approval from the Board of County Commissioners or their designee. Should unaccepted waste be identified at the MRF, the following procedures are adhered to:

- If unacceptable wastes are discovered, the Solid Waste Director is immediately notified. The waste hauler or generator of the waste is contacted to retrieve and remove the unacceptable waste and instructed on the proper disposal.

- If the waste hauler or generator of the waste is unknown and the unacceptable waste that does not pose a threat to County staff, then the unacceptable waste may be stored, if containers and space are available, at the Household Hazardous Waste Collection Center (HHWCC) for temporary storage prior to being removed from the site and disposed of properly.

- If unacceptable wastes are of an unknown waste material or pose a threat to County staff or the waste hauler or generator is identified and the quantity of wastes cannot be moved or stored in the HHWCC, a front-end loader will isolate the unacceptable waste from other waste while keeping it within the lined area and marking it with applicable markers. The load will be covered with 6-mil Visqueen or waterproof tarp and a perimeter berm will be placed around the load to minimize contact with stormwater. The Visqueen rolls or plastic tarps are available at the Household Hazardous Waste Collection Center. Hardee County will contact the person/entity who dumped the unacceptable waste and request removal within 48 hours. If the 48 hours expire without removal, Hardee County will contact an independent waste hauler for proper disposal of the waste at a permitted facility.

B.7 DISPOSAL OF NON-RECYCLABLE MATERIALS

Excessively dirty and/or contaminated recyclables, non-recyclables, plastic bags and other wastes are baled and then transported to the Class I Landfill. In the event the MRF has to temporarily cease operations, the scale house operators will direct the waste loads to the Class I Landfill for compaction and disposal by conventional landfill methods.

B.8 SURVEYS

Refer to Attachment B-4 for the boundary survey, legal description, and topographic survey of the property.

B.9 OPERATIONS PLAN

Refer to Attachment B-5 for the MRF operations plan.

B.10 CLOSURE PLAN

The schedule for final closure of the ~~landfill and~~ MRF will comply, at a minimum, with Rule 62-701.~~600~~.710(6), F.A.C., and is as follows:

- ~~At least one year prior to projected date when wastes will no longer be accepted or when all solid waste disposal units are expected to reach design dimensions, the owner or operator will provide written notice to FDEP with a schedule for cessation of waste acceptance and closure of the landfill,~~Notify FDEP, in writing, specifying the closure date for the MRF. FDEP must receive the notification prior to closure.

- Within 30 days after receiving the final solid waste shipment, the MRF shall be free of all processable and non-processable waste and residue.

- After all waste and residue has been removed from the MRF, and prior to the specified closure date, the MRF will be thoroughly cleaned by County staff.

    - Baler – the baler shall be cleaned in accordance with the manufacturer's recommendations.

    - Conveyor Belts – the belts shall be cleaned in accordance with the manufacturer's recommendations.

    - Conveyor Pit – the pit shall be pressure washed with water and detergent until debris and residue is no longer present.

    - Leachate Drains – the drains shall be pressure washed with water and detergent and all drains free of debris.

    - MRF Floors – all floors will be swept and pressure washed until debris and residue is absent.

    - Storage Containers/Roll-Offs – all containers will be pressure washed with water and detergent.

- The County will fully inspect the MRF to ensure it has been cleaned and been prepared for closure.

- Closure must be completed within 180 days after the last load of solid waste has been processed at the MRF. Closure includes the removal of all recovered materials. Upon completion, the County shall ~~certify~~certify in writing to FDEP that closure is complete. FDEP will inspect the site within 30 days to verify closure.

~~□ At 120 days prior to the date when wastes will no longer be accepted at the landfill, the owner or operator shall advise users of the landfill of the intent to close the landfill by posting signs at the entrance to the landfill. The signs will indicate the date of closure, the location of alternative disposal facilities, and the name of persons responsible for the closure activities.~~

~~□ At least 10 days prior to the date when waste will no longer be accepted at the landfill, the owner or operator will publish notification of the landfill closure in the legal advertising section of the newspaper of general circulation where the activity is proposed.~~

~~The owner or operator of the landfill/MRF shall submit a Closure Permit Application to the FDEP for final closure of the landfill at least 90 days before the date when wastes will no longer be accepted at the landfill.~~

B.11 FINANCIAL ASSURANCE

The financial assurance for the MRF is included in the financial assurance estimates for the entire landfill. Refer to Attachment B-6 for the financial assurance for the Hardee County Landfill facility.

B.12 STORMWATER CONTROLS

The stormwater from the MRF is collected in a stormwater detention pond located to the east of the facility. The stormwater is captured by a series of swales that feed the detention pond.

The MRF operates under the Southwest Florida Water Management District (SWFWMD) permit, number 407767.00. Refer to Attachment B-7 for a copy of the stormwater management permit.

B.13 RECORDKEEPING AND REPORTING REQUIREMENTS

In addition to waste and operating records, supplemental information from the permit applications and information pertaining to the MRF's construction and maintenance are on file at the facility. These records will be retained at the site for the life of the site.

B.13.a Copies of Reports Maintained for 10 Years

Records of all monitoring information, including calibration and maintenance records, and copies of reports required by the permit will be retained for at least 10 years.

~~**B.13.bAnnual Estimates of Remaining Life**~~

~~Hardee County will maintain an annual estimate of the remaining solid waste disposal capacity (in cubic yards) and life of the existing Class I landfill. The estimate will be based on the geometry of the solid waste disposal area and the scalehouse waste records. These estimates will be reported to the FDEP annually.~~

~~B.13.c~~B.13.b Archiving and Record Retrieval

All records pertaining to the operation of the facility will be retained throughout the design life of the landfill. All monitoring records, calibration and maintenance records, and reports required by the operating permit will be retained for at least ten years.

ATTACHMENT B-1

EDUCATIONAL BROCHURE TYPES OF WASTE ACCEPTED

HELPFUL HINTS

- To recycle without wasting water, rinse your recyclables in left over dish water or place them in left over spaces in your dishwasher.
- Save paper: use both sides.
- Use canvas or cloth shopping bags at the grocery store or be sure to recycle the plastic and paper bags.
- Cut your waste at lunch time: Use a lunch box, not disposable paper or plastic bags. Use reuseable containers for sandwiches, fruit, cookies, chips, and beverages.
- Share newspapers and magazine subscriptions with friends and neighbors, or donate them to hospitals or nursing homes.
- Don't throw away old clothing. Give it to an organization that helps the homeless or needy.
- Avoid excess packaging at the store. Look for products that require little or no packaging or buy concentrated products or large quanity products.
- Buy rechargeable batteries.
- The average baby needs six to ten thousand changes over three years. Consider using cloth diapers whenever possible.
- Use an electric razor or one that uses replaceable blades instead of disposable ones.

ACKNOWLEDGMENTS

Produced with the cooperation of Hardee County Department of Solid Waste and Recycling Center, Hardee County Board of County Commissioners, and Hardee County's Outdoor Classroom.

Distributed by the Hardee County School District and the Girl Scouts of America.

Portions of our logo were reprinted from D.O.E.'s 4R's Project.

It's Girl Scouting's 80th Birthday, and we're celebrating in a very special way! Girl Scouts all over the United States will be committing themselves to work on a service project in their community that demonstrates "GIRL SCOUTS CARING FOR THE EARTH".

GIRL SCOUT SERVICE PROJECT
CARING FOR THE EARTH

FOR MORE INFORMATION ON RECYCLING

CALL: ~~(813)~~ 863 773-5089

OR WRITE TO:

HARDEE COUNTY
Department of Solid Waste & Recycling Center
P.O. Box 246
Wauchula, Florida 33873

Recycled Paper

SAVE HARDEE COUNTY'S TOMORROW

RECYCLE
REUSE
RECOVER
REDUCE
HARDEE COUNTY
19 21
FLORIDA

RECYCLE TODAY

ATTACHMENT B-2

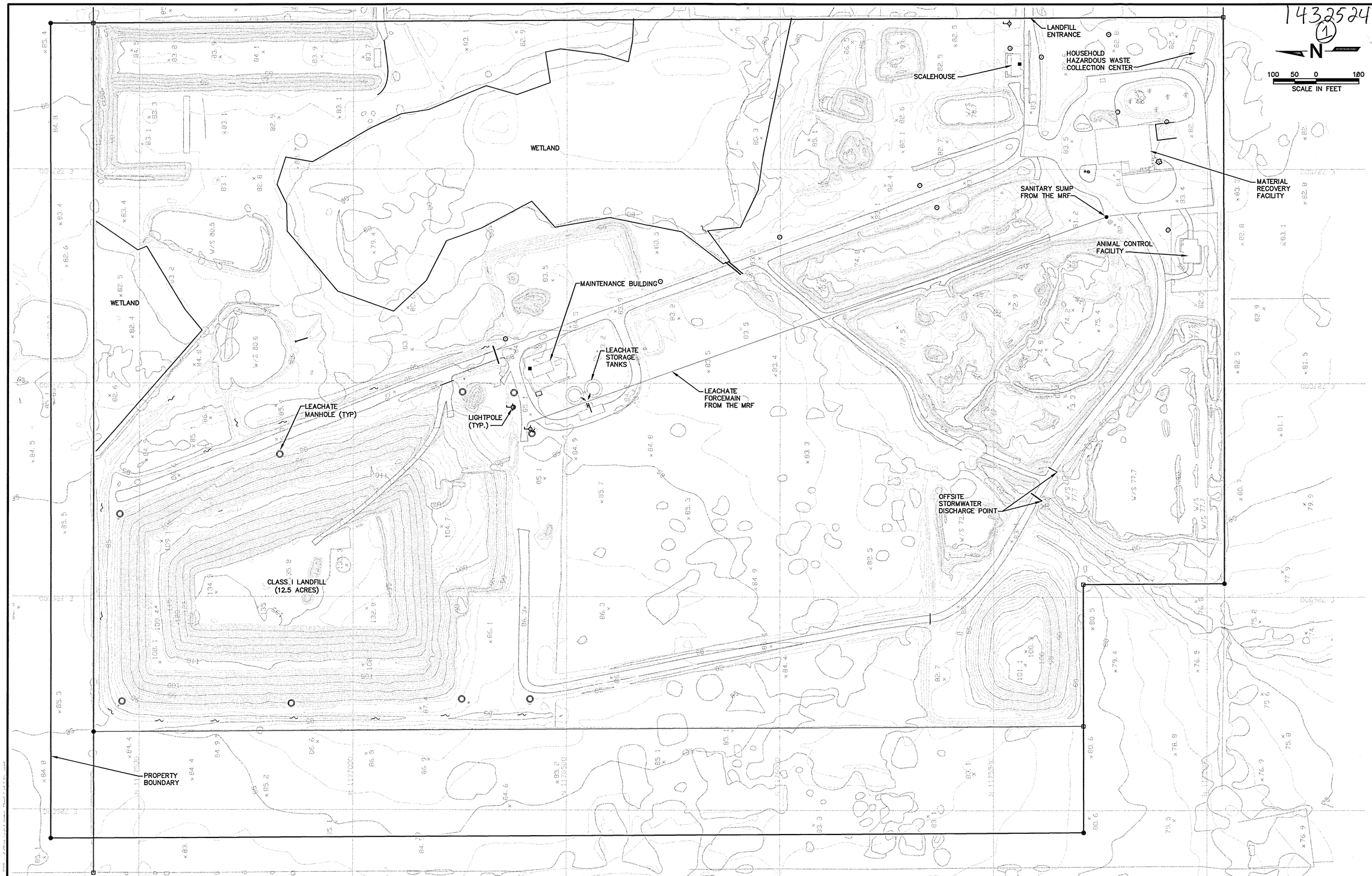
STORAGE METHODS AND STORAGE TIME

(See Appendix F of the Operations Plan)

ATTACHMENT B-3

SITE PLAN

14325241



LEGEND

PAVED ROAD
CURB-GUTTER
DIRT ROAD
TRAIL
DRIVEWAYS
PARK-LOTS
SIDEWALKS
RUNWAYS
RR SINGLE
RR DOUBLE
WALLS
DRAINAGE

GUARDRAIL
RETAINING WALL
FENCES
PIPELINES
LAKE
RIVER
STREAM
TREE LINE
BRUSH LINE
HEDGE
GROVE

INDEX CONTOUR
OBSCURED INDEX
DEPRESSED INDEX
OBSCURED DEP INDEX
INTERMEDIATE CONTOUR
OBSCURED INTERMEDIATE
DEPRESSED INTERMEDIATE
OBSCURED DEP INTERMEDIATE
STRUCTURES

BUILDINGS

OUTLINE

SPOT HEIGHT ×143.7
OBSCURED SPOT HEIGHT ×152.8
CONTROL POINT AT16 N 1515993.0099 E 526734.6370 EL 79.7970
WATER SURFACE ELEV. W/S 163.2
SWAMP
EDGE OF PAVEMENT EP
BUMPER
RAILROAD SIGNAL
RAILROAD SWITCH
RAILROAD CROSSING GATE

STREET LIGHT
TRAFFIC LIGHT
TOWER
UTILITY POLES
VALVE
FIRE HYDRANT
ELECTRICAL BOX
CATCH BASIN
DROP INLET
MANHOLE
MAILBOX
MISC. POST

SIGN
DOUBLE LEGGED SIGN
TELEPHONE BOOTH
ANTENNA
SATELLITE DISH
BIRD BATH
FLAG POLE
SHRUB
SINGLE TREE
PALM TREE
EVERGREEN TREE

I, THE UNDERSIGNED REGISTERED SURVEYOR & MAPPER CERTIFY THAT THIS MAP WAS COMPILED USING PHOTOGRAMMETRIC METHODS UNDER MY SUPERVISION AND THAT THE DATA SHOWN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

THIS SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS. FLORIDA CHAPTER 61G17-6(FLORIDA ADMINISTRATIVE CODE).

3-14-03
DATE OF PHOTOGRAPHY *ISAAC F. ROOKS, JR., PSM #5416*

THIS MAP IS NEITHER FULL NOR COMPLETE WITHOUT THE "SURVEY AND MAP REPORT" AND DIGITAL FILE(S) REFERENCED IN SAID REPORT. UNLESS THIS MAP OR REPORT BEARS THE SIGNATURE AND ORIGINAL RAISED SEAL OF THE ABOVE FLORIDA LICENSED SURVEYOR AND MAPPER, IT IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.
NOTE:

IFR NO.: 7494	*FILE:* 7494D1.DWG
SCALE: 1" = 100'	*CONT. INTERVAL:* 1'
DRAWN BY: IMA	*CHK. BY:* M.E.
DATUM: STATE PLANE FLORIDA WEST ZONE NAD83 NGVD29 GEOID 99	
REVISED:	

I.F. ROOKS & ASSOCIATES, INC.
105 N.W. DRANE ST.
PLANT CITY, FL 33566
(813) 752-2113
PHOTOGRAMMETRY

REC'D SEP 6 2005
Department of Environmental Protection
BY SOUTHWEST DISTRICT

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: FACILITY SITE PLAN

PROJECT TITLE: HARDEE COUNTY LANDFILL
MATERIAL RECOVERY FACILITY
OPERATIONS RENEWAL PERMIT

CLIENT: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3012 U.S. HWY 301 NORTH, SUITE 700, TAMPA, FL 33619
PH (813) 621-0080 FAX NO. (813) 623-6757

PROJ. NO. 09199033.08
DSN. BY: DWN. BY: CEK CHK. BY: LEK
O/A RVW BY: CEH PSR BY: CEH

CADD FILE: 993315SITEPLAN.DWG
DATE: JUNE 20, 2005
SCALE: 1" = 100'
DRAWING NO. 1 of 1

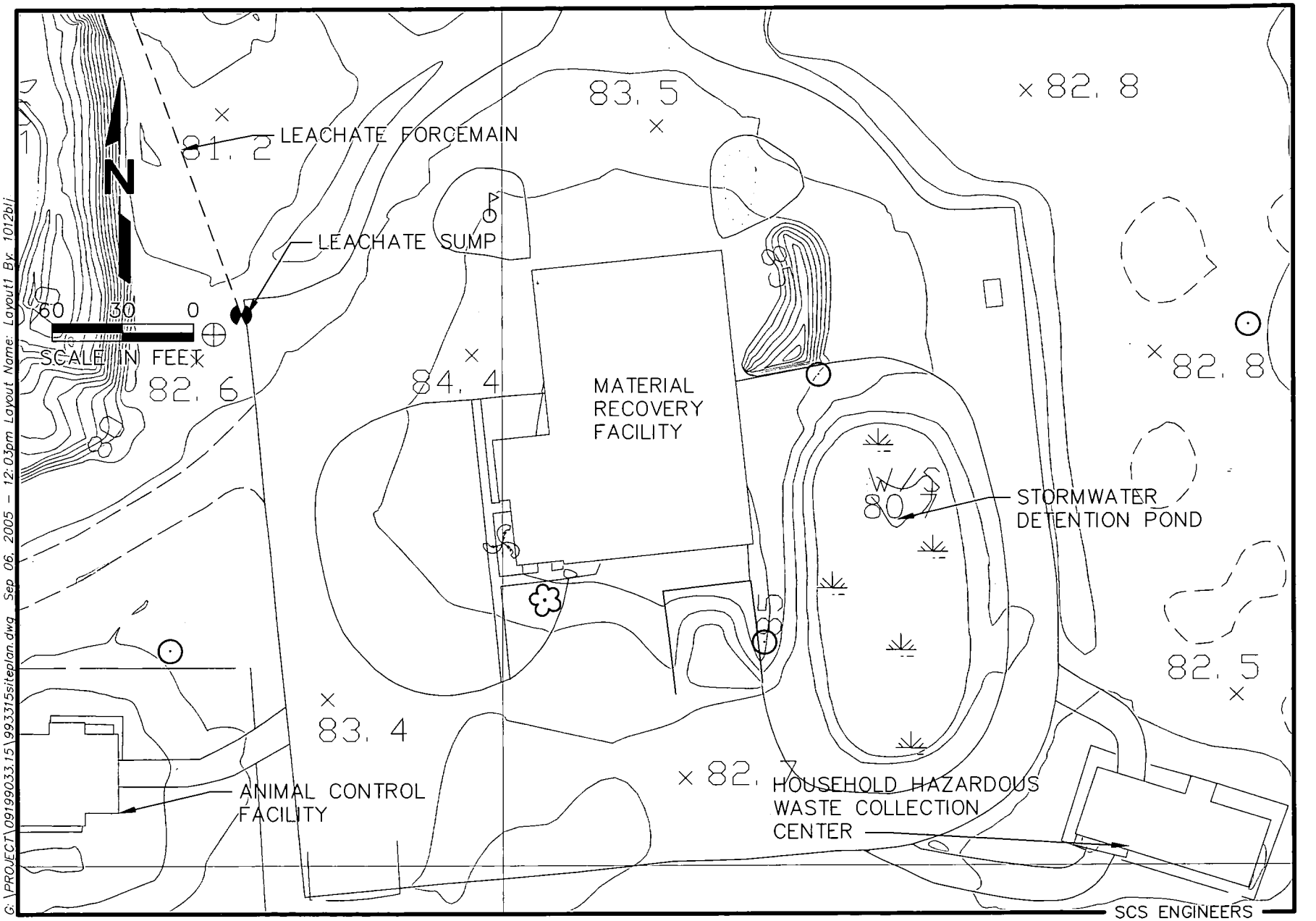


Figure 2. Material Recovery Facility, Hardee County Landfill, Hardee County, Florida

ATTACHMENT B-4

BOUNDARY SURVEY

WETLANDS DATA			
NORTHING	EASTING	ELEV.	DESC.
WETLAND AREA 1			
1176344.61	727851.19	82.6	W1-1
1176347.19	727798.04	81.6	W1-2
1176357.00	727750.28	81.0	W1-3
1176417.20	727767.89	81.6	W1-4
1176514.90	727780.75	81.8	W1-5
1176550.18	727773.23	82.3	W1-6
1176539.21	727701.95	81.2	W1-7
1176617.15	727674.12	81.8	W1-8
1176689.41	727695.03	81.8	W1-9
1176825.28	727638.78	81.5	W1-10
1176887.45	727629.14	82.4	W1-11
1176990.98	727594.97	82.3	W1-12
1177065.70	727516.97	81.3	W1-13
1177158.45	727527.93	81.3	W1-14
1177178.95	727464.35	81.5	W1-14A
1177156.48	727418.91	81.3	W1-15
1177155.25	727354.95	81.3	W1-16
1177037.18	727215.00	81.5	W1-17
1176905.64	727167.76	81.3	W1-18
1176829.08	727238.00	81.5	W1-19
1176782.15	727331.95	81.4	W1-20
1176700.37	727362.52	80.6	W1-21
1176582.66	727425.00	80.7	W1-22
1176528.08	727364.58	80.8	W1-23
1176400.67	727386.79	80.3	W1-24
1176232.41	727353.75	80.1	W1-25
1176134.45	727278.79	82.7	W1-26
1176118.21	727284.56	82.5	W1-27
1176170.93	727356.28	79.7	W1-28
1176093.49	727364.45	80.3	W1-29
1176051.98	727451.17	80.1	W1-30
1176040.46	727532.97	80.5	W1-31
1175974.45	727853.46	79.3	W1-32
1176890.74	727344.55	80.48*	STA. 1
		81.55**	
1176401.62	727616.11	80.26*	STA. 2
		80.71**	
* NORMAL POOL			
** SEASONAL HIGH			
WETLAND AREA 2			
1177601.1	727377.30	82.9	W2-1
1177504.39	727310.63	82.5	W2-2
1177483.39	727319.45	82.7	W2-3
1177393.30	727171.27	82.6	W2-4
1177353.98	727123.81	82.6	W2-5
1177601.64	726940.09	84.1	W2-6
SURFACE WATER BODY			
1175406.66	726701.57	83.4	W3-1
1175071.43	727148.74	82.7	W3-2
1175168.92	726528.31	77.1	W3-3
1174974.57	727147.72	82.7	W3-4

NORTHING	EASTING	ELEV.	DESC.
MANHOLES			
1176744.06	726979.38	84.72	MH-1
1177171.83	726833.76	86.12	MH-2
1177545.56	726692.78	84.82	MH-3
1177540.10	726254.08	85.44	MH-4
1177144.13	726249.85	86.47	MH-5
1176744.98	726260.24	86.44	MH-6
1176585.29	726260.49	86.10	MH-7
1176581.74	726982.27	85.88	MH-8
SOIL BORINGS			
1176338.07	726646.77	85.96	TH-1
1176113.97	726935.60	83.66	TH-2
1176536.07	726952.89	83.31	TH-3
1176057.65	726435.92	84.66	TH-4
1176268.30	726137.25	85.48	TH-5
1176823.01	726110.41	86.77	TH-6
1177361.24	726101.66	84.16	TH-7

MONITOR WELLS					
LATITUDE	LONGITUDE	NORTHING	EASTING	ELEV.	DESC.
27°34'24" N	81°46'59" W	1177605.05	725482.15	87.92	MW1
27°34'16" N	81°46'52" W	1176801.02	727061.12	85.75	MW2
27°34'12" N	81°47'02" W	1176440.01	725193.40	87.74	MW3
27°34'23" N	81°46'48" W	1177589.13	727469.54	87.17	MW4
27°34'19" N	81°47'02" W	1177137.35	726199.13	88.67	MW5
27°34'06" N	81°46'57" W	1176081.60	726952.24	88.00	MW6
27°34'07" N	81°47'00" W	1175903.94	726369.59	87.56	MW7
27°34'13" N	81°47'01" W	1176544.43	726234.31	89.07	MW8
27°34'13" N	81°46'57" W	1176515.16	726666.62	88.71	MW9

SURVEYOR'S REPORT:

1. THIS SURVEY PERFORMED WITHOUT THE BENEFIT OF AN ABSTRACT OR TITLE OPINION SEARCH, THEREFORE, EASEMENTS OR OTHER ENCUMBRANCES MAY EXIST THAT ARE NOT SHOWN HEREON.
2. UNLESS SHOWN, UNDERGROUND IMPROVEMENTS WERE NOT LOCATED.
3. BEARINGS ARE BASED ON THE NORTH LINE OF THE NE ¼ OF SECTION 35, TOWNSHIP 33 SOUTH, RANGE 25 EAST, AS BEING N89°55'46"E, STATE PLANE FLORIDA (WEST ZONE) NAD 1983.
4. BENCH MARKS: (NGVD 29 GEOID 99)
   BM#1 – BRASS DISK IN CONCRETE MONUMENT (AIM ENGINEERING)
   ELEVATION: 84.025 STATE PLANE COORDINATES: N 1175440.35
   E 727746.08

   BM#2 – BRASS DISK IN CONCRETE MONUMENT (AIM ENGINEERING)
   ELEVATION: 85.875 STATE PLANE COORDINATES: N 1176586.54
   E 727034.07

LEGAL DESCRIPTION:

THE WEST ½ OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 AND THE WEST 1/2 OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 AND THE EAST 3/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 AND THE EAST 3/4 OF THE SOUTHWEST ¼ OF THE NORTHEAST 1/4, LESS AND EXCEPT THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 35, TOWNSHIP 33 SOUTH, RANGE 25 EAST, HIGHLANDS COUNTY, FLORIDA.

TOGETHER WITH:

PARCEL 1

COMMENCE AT THE NORTHEAST CORNER OF SECTION 35, TOWNSHIP 33 SOUTH, RANGE 25 EAST, HARDEE COUNTY, FLORIDA; THENCE RUN S89°51'17"W ALONG THE NORTH LINE OF SAID SECTION 35, WHICH IS ALSO THE SOUTH LINE OF SECTION 26, TOWNSHIP 33 SOUTH, RANGE 25 EAST, A DISTANCE OF 2,323.42 FEET TO THE POINT OF BEGINNING; THENCE S00°28'08"E, A DISTANCE OF 2,316.45 FEET; THENCE S89°47'00"W, A DISTANCE OF 250.00 FEET; THENCE N00°28'08"W, A DISTANCE OF 2,317.86 FEET TO SAID NORTH LINE OF SECTION 35; THENCE S89°51'17"W ALONG SAID NORTH LINE OF SECTION 35, A DISTANCE OF 250.00 FEET TO THE POINT OF BEGINNING. CONTAINING 13.30 ACRES MORE OR LESS.

TOGETHER WITH:

PARCEL 2

COMMENCE AT THE SOUTHEAST CORNER OF SECTION 26, TOWNSHIP 33 SOUTH, RANGE 25 EAST, HARDEE COUNTY, FLORIDA; THENCE RUN S89°51'17"W ALONG THE SOUTH LINE OF SAID SECTION 26, WHICH IS ALSO THE NORTH LINE OF SECTION 35, TOWNSHIP 33 SOUTH, RANGE 25 EAST, A DISTANCE OF 663.83 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE S89°51'17"W ALONG SAID SOUTH LINE OF SECTION 26, A DISTANCE OF 1,909.59 FEET; THENCE N00°28'08"W, A DISTANCE OF 100.00 FEET; THENCE N89°51'17"E, A DISTANCE OF 1,909.77 FEET; THENCE S00°22'10"E, A DISTANCE OF 100.00 FEET TO THE POINT OF BEGINNING. CONTAINING 4.38 ACRES MORE OR LESS.

ALL CONTAINING 115.84 ACRES MORE OR LESS.

LEGEND

- □ CONCRETE MONUMENT (CM)
- ● IRON ROD & CAP (IR&C)
- ⊙ NAIL & DISK
- MH-1 MANHOLE
- MW-1 MONITOR WELL
- TH-1 SOIL BORING
- BM #1 BENCH MARK (CONCRETE MONUMENT W/NAIL & DISK)

CERTIFICATION

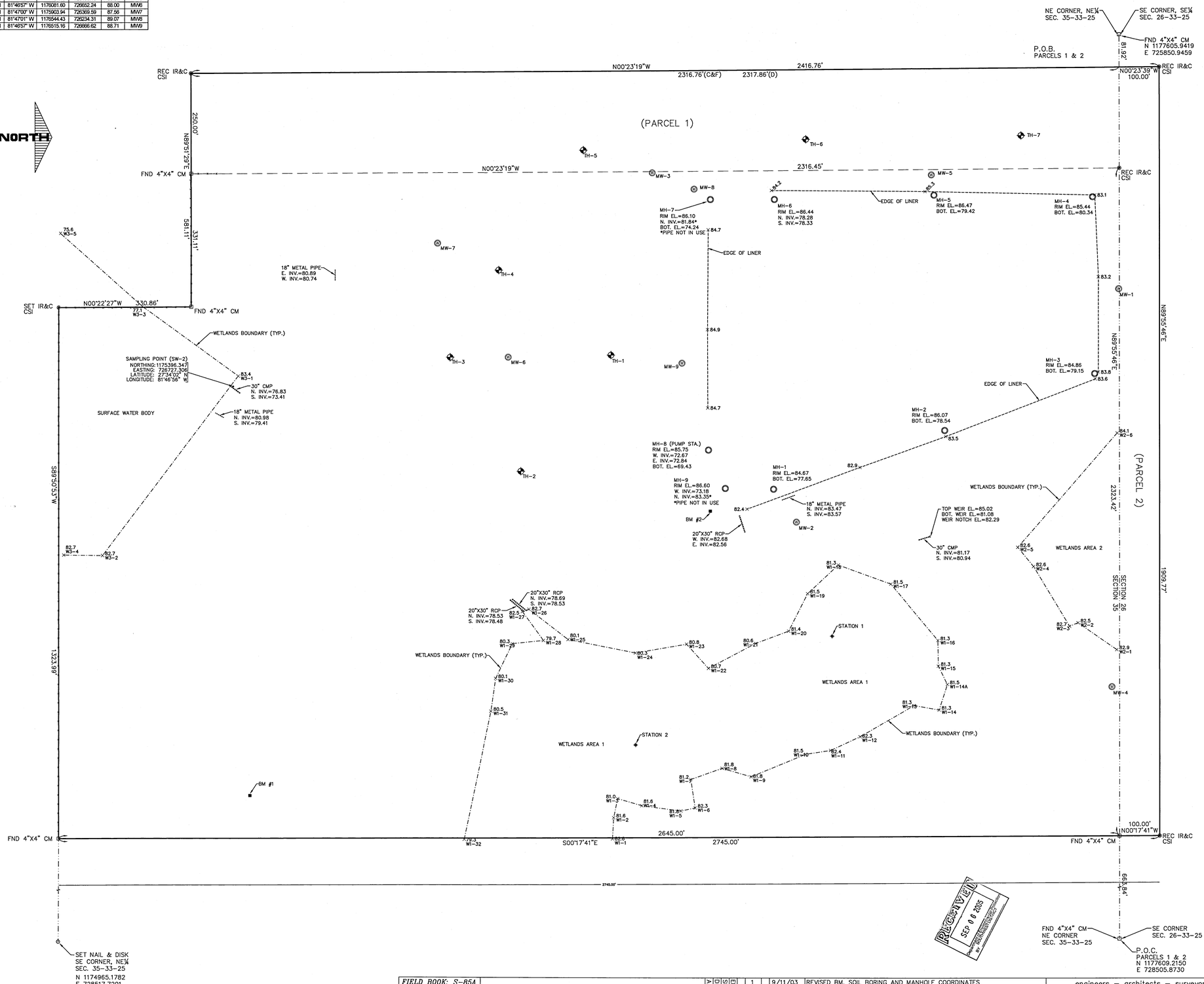
I HEREBY CERTIFY THAT THIS DRAWING CORRECTLY REFLECTS THE RESULTS OF A RECENT SURVEY MADE UNDER MY DIRECTION AND THIS SURVEY WAS MADE IN ACCORDANCE WITH MINIMUM TECHNICAL STANDARDS ADOPTED BY THE FLORIDA DEPARTMENT OF PROFESSIONAL REGULATION, BOARD OF SURVEYORS AND MAPPERS, CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE.

PREPARED BY:

(EMBOSSED SEAL)

ROBERT PHILLIP SCHULER, P.L.S.
FLORIDA REGISTRATION #2930
CHASTAIN-SKILLMAN, INC.
363 U.S. 27 SOUTH
SEBRING, FLORIDA 33870
(863) 382-4160
L.B. #762

NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.STATE OF



RECEIVED SEP 06 2005 By SCHULER/SURVEYING

FIELD BOOK: S-85A PAGE: 51-52, 56-57	SCS ENGINEERS
SCALE: 1" = 100'	BOUNDARY SURVEY HARDEE COUNTY LANDFILL
DATE OF SURVEY: 7/2/2003	
DRAWING NO. ESS 8197.01	

ACAD FILE 81970.DWG | DRAWN BY DRW | SURVEYOR RPS | ENGINEER

REVISION NO.	REVISED DATE	
1	9/11/03	REVISED BM, SOIL BORING AND MANHOLE COORDINATES

engineers – architects – surveyors – scientists
chastain skillman incorporated
Lakeland Sebring Tampa Orlando Atlanta
Lakeland : 4705 Old Highway 37, P.O. Box 5710 (863) 646-1402
Sebring : 363 U.S. 27 SOUTH, P.O. Box 1281 (863) 382-4160
Tampa : 4508 Oak Fair Boulevard, Suite 101 (813) 621-9229

ATTACHMENT B-5

MRF OPERATIONS PLAN

OPERATIONS PLAN
FOR THE
HARDEE COUNTY
MATERIALS RECOVER FACILITY

Prepared for:

Hardee County
Solid Waste Department
685 Airport Road
Wauchula, Florida
863-773-5089

Prepared by:

SCS Engineers
3012 U.S. Highway 301 North, Suite 700
Tampa, Florida 33619
(813) 621-0080

SCS Engineers
Florida Certificate of Authorization No. 00004892

File No. 09199033.15
June 28, 2005
Revised September 6, 2005

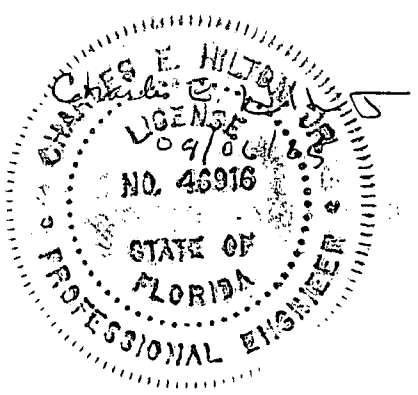


TABLE OF CONTENTS

TABLE OF CONTENTS (Continued)

Appendices

ATTACHMENT B-5

OPERATIONS PLAN

BACKGROUND INFORMATION

The Hardee County (County) Landfill facility is located east of the City of Wauchula on Airport Road. This Operations Plan addresses the regulatory requirements for the operation of the Materials Recovery Facility (MRF), located onsite. This MRF Operations Plan will be kept at the administrative offices and shall be accessible to the MRF ~~and landfill~~ operators.

Normal operating hours for the Hardee County Landfill facility are Monday-Saturday 7:30 am - 5: 15 pm. The Hardee County Landfill facility is closed for the following holidays; New Year Day, July 4, Labor Day, Thanksgiving Day, Christmas Day, Christmas Eve (if waste haulers are not collecting). The MRF maintains he same operating hours.

Other ancillary operations on site include the following.

Scalehouse and Administrative Offices

The scalehouse and administrative offices are located just inside the entrance to the site. All incoming vehicles must stop at the scalehouse to register. Records, reports, analytical results, and modifications to the operating plan are maintained and kept on file at the administrative offices.

Class I Landfill

The Class I Landfill is currently operating under a separate permit. Refer to the Hardee County Landfill Operations Plan for a detailed discussion of the operations and procedures of the landfill.

The Class I Landfill ~~(Phase I)~~ is located in the northwest corner of the site and comprises approximately 12.5-acres. The landfill is predominantly a bale fill type operation, with some "loose waste" disposal activities occurring during maintenance periods for the MRF or as needed to achieve the permitted grades. ~~shown on the Operations Drawings.~~ The majority of incoming solid waste is baled at the ~~on-site~~ MRF and transported to the Class I landfill for placement within the lined area for disposal. ~~During certain periods of time, the MRF may not be operational due to planned or unplanned maintenance activities. During those periods the waste is taken directly to the lined disposal area.~~

Waste Tire Facility

The Waste Tire Facility is currently operating under a separate permit. ~~Refer to the Waste Tire Facility Operations Plan for a detailed discussion on the operations and procedures.~~

Incoming waste tires and tires with rims are temporarily stored on-site in a designated area for storage of waste tires. The tires are collected by a contractor on an as-needed basis for removal from the site for processing.

Yard Trash Processing Area

Yard trash is collected in separate loads by the waste haulers and delivered directly to the Yard Trash Processing Area. When yard trash loads arrive at the landfill, ~~a spotter escorts~~ the loads are directed to the area designated for yard trash processing. Loads are spread out to look for unacceptable waste materials or waste material that do not belong in the Yard Trash Processing Area. ~~County personnel or contract labor~~Hardee County Correctional inmates ~~will to~~ remove plastic bags prior to pushing the yard trash into a larger pile. The plastic bags are taken to the MRF for baling.

Scrap Metal and White Goods Storage Site

When scrap metals and white goods arrive at the landfill, ~~a spotter escorts~~ the scale attendant directs the loads to the area designated for scrap metals and white goods storage. ~~as shown on the Operations Drawings~~. A spotter meets the load at the scrap metal/white goods storage area to monitor the contents of the load. Incoming loads of scrap metal, appliances, and white goods are segregated and temporarily stored in this area. The storage area has a stable base comprised of compacted shell to minimize rutting due to traffic. Scrap metal, appliances, and white goods identified at the MRF are segregated and brought to this storage area.

Household Hazardous Waste Collection Center

A Household Hazardous Waste Collection Center (HHWCC) is located southeast of the MRF. The HHWCC is comprised of a roofed building with a curb in order to promote spill containment. The HHWCC is used for the temporary storage of special wastes such as used oil, paint, lead acid batteries, florescent lightbulbs, and household hazardous wastes. ~~Used oil is consolidated into two double-walled oil storage tanks. Lead acid batteries are stacked three high on pallets, with cardboard placed between each layer, and then shrink wrapped when pallets are full. Private contractors are hired for the removal of the special wastes such as the used oil, paint, lead acid batteries, and fluorescent light bulbs.~~

~~Household hazardous waste is defined as discarded, small quantity residential waste (less than 220 lbs.) which is either listed by the U.S. Environmental Protection Agency (EPA) in its hazardous waste regulations or exhibits one of the four (4) following hazardous characteristics:~~

- ~~Ignitability – It may catch fire.~~
- ~~Corrosivity – It can damage other materials (including human tissue) on contact.~~
- ~~Reactivity – It reacts violently with water and may catch fire or explode.~~
- ~~Toxicity – It may cause illness or health problems if handled incorrectly.~~

If household hazardous waste is identified in the MRF operations, the waste is removed from the MRF and temporarily stored at the HHWCC.

FACILITY OPERATIONS

Hardee County operates a MRF in accordance with Rule 62-701.710, FAC. The MRF serves a number of purposes for the Hardee County Solid Waste Department; the MRF allows the Solid Waste Department to provide the County the following:

- a waste reduction/recycling method for the Class I Landfill by segregating the recyclables from the non-recyclable waste,
- a method of baling non-recyclable waste,
- a reduction in the space consumed in the Class I Landfill, and
- a very effective method for screening waste.

Controlling Types of Waste Received

The landfill operators and scalehouse personnel are responsible for inspecting loads received at the facility entrance to detect and discourage attempts to dispose of unacceptable wastes. Upon entering the Solid Waste Facility, each vehicle must register at the scale house. The vehicle is weighed, classified, and assigned a destination. To do so, the weighmaster will ask the driver about the contents of the load and visually inspect the load to determine the appropriate classification in one of the following categories:

1. Residential
2. Commercial
3. Yard Trash and Clean Wood
4. Appliances/Scrap Metal
5. Construction and Demolition Debris
6. Mixed Loads and Garbage
7. Special Handling (including Asbestos)
8. Pre-tested Contaminated Soil
9. Tires

After classification, the loads are assigned one of the following destinations:

1. Class I Landfill
2. Construction and Demolition Debris sent to the Class I Landfill
3. Yard Trash Processing Area
4. Scrap Metals and White Goods Storage Area
5. Material Recovery Facility (MRF)
6. Waste Tire Facility
7. Household Hazardous Waste Collection Center (HHWCC)

If classification or destination can not be determined at by the scalehouse personnel, the weighmaster will direct the driver to one of the trained spotters at the MRF, who will inspect the load further. If the load is classified as residential, commercial, or perhaps mixed, it will be kept at the MRF.

Random inspections of loads is also practiced to detect and discourage attempts to dispose of unacceptable waste, hazardous wastes, special waste materials, or materials that require special processing (e.g. asbestos, contaminated soil, used oil, or biomedical waste). If this inspection reveals any unacceptable or potentially hazardous wastes, the Solid Waste Director is notified immediately.

Waste Inspection

Upon entering the MRF, vehicles are instructed to dump their waste onto the tipping floor. The Resource Recovery Operators will observe the contents of the load and check for unacceptable materials. Should the operator observe materials that are acceptable, but should have been sent to one of the other sites in the landfill, the acceptable waste will be reloaded into the resident's vehicle and the operator will instruct the driver to the proper location within the site and explain the proper way to segregate their waste. Should the operator observe unacceptable waste, the solid waste superintendent will be notified for further instructions.

Unacceptable Wastes--

The facility does not accept closed or sealed containers; all drums, tanks, and cans must have one end open and must have been flushed. Other unacceptable wastes include septic tank sludge; paint thinners; gasoline or like liquids; biomedical waste from hospitals, doctor's offices, or clinics. Refer to Appendix F of this operations plan for a chart that identified the types of wastes that are classified as unacceptable.

The facility does not accept any materials that the hauler cannot identify the composition of, nor supply certification that the material is non-hazardous waste. Disposal of liquids or non-liquid (soils, rags, or other debris) containing PCB's (polychlorinated biphenyl) are not accepted at the Hardee County Landfill facility for disposal or storage. Solid wastes generated from outside the borders of Hardee County are not accepted without prior written approval from the Board of County Commissioners or their designee.

Should an unacceptable load be encountered at the MRF, a Random Load Inspection Form shall be completed by the spotter; the form is located in Appendix D.

Procedures for Handling Unacceptable or Improperly Placed Waste Loads--

- If unacceptable wastes are discovered at the MRF, the Solid Waste Director is immediately notified. The unacceptable waste is segregated from the other wastes in the MRF. The waste hauler or generator of the waste is then contacted to retrieve and remove the unacceptable waste and instructed on the proper disposal.

- If the waste hauler or generator of the waste is unknown and the unacceptable waste does not pose a threat to County staff, then the unacceptable waste may be stored, if containers and space are available, at the Household Hazardous Waste Collection

Center for temporary storage prior to being removed from the site and disposed of properly.

- If unacceptable wastes are of an unknown waste material, or pose a threat to County staff, or the waste hauler or generator is identified and the quantity of wastes cannot be moved or stored in the HHWCC, a front-end loader will isolate the unacceptable waste from other waste while keeping it within the lined area of the landfill and mark it with applicable markers. The load will be covered with 6-mil Visqueen or waterproof tarp and a perimeter berm will be placed around the load to minimize contact with stormwater. The Visqueen rolls or plastic tarps are available at the Household Hazardous Waste Collection Center. Hardee County will contact the person/entity who dumped the unacceptable waste and request removal within 48 hours. If the 48 hours expire without removal, Hardee County will contact an independent waste hauler for proper disposal of the waste at a permitted facility.

Handling of Hazardous Wastes--

Hazardous wastes are not accepted at the Hardee County Landfill facility and MRF. If a hazardous waste is mistakenly delivered to the MRF or identified after unloading, the Florida Department of Environmental Protection (FDEP) will be promptly notified and the hauler identified from a license plate or by hauling records.

The hazardous materials will be marked with applicable markers and covered with 6-mil Visqueen or waterproof plastic tarp. The Visqueen rolls or plastic tarps are available at the Household Hazardous Waste Collection Center. If the hauler is identified, Hardee County will contact the person/entity who dumped the hazardous materials and request removal of the materials within 48 hours. If the 48 hours expire without removal, Hardee County will contact an independent hazardous waste hauler for proper disposal of the hazardous material at a permitted hazardous waste management facility.

Accidental Liquid Spills

In the case of an accidental spill of oil, fuel, leachate, or chemicals, the spill will be minimized by controlling the source immediately (e.g. by closing a valve, turning off switches, or taking other necessary actions to minimize the amount of spillage). The effected area will be controlled by diverting traffic around the spill. Runoff from the effected area will be controlled by placing a berm around the area, plugging a drain or ditch, or adding absorbent material. The effected area will be cleaned and the effectiveness of the cleanup will be confirmed by sampling, as needed depending upon the nature of the spilled material.

If a liquid spill material is found during offloading of waste materials, then the hauler will be asked to remove the liquid from the site. If a liquid is found and the hauler cannot be identified or an accidental spill occurs, then absorbent granules or soils will be placed on the spilled liquid. The absorbent granules or soils will be placed in barrels at the Household Hazardous Waste area until a private hauler can remove the material.

CONTINGENCY PLAN

In accordance with Rule 62-701.710(4)(a)(3), FAC, the County has various mechanisms in place should fire or natural disaster disrupt operations at the MRF.

Fires

In the event of fire, the responding agency is the Hardee County Fire and Rescue Service (HCFRS), located approximately three miles west of the site, in Wauchula, Florida. Additionally, the landfill site is equipped with a dry fire hydrant for the filling of pumper trucks. The dry fire hydrant is located along the access road and is connected to the stormwater pond located immediately north of the scalehouse. There are also six fire extinguishers and five hose bibs located in the on-site MRF.

- A fire extinguisher is located on every wall of the MRF.
- A fire extinguisher is also located in the two restrooms of the MRF.

Should a fire occur at the MRF, the emergency shutdown plan will be followed, and immediate actions to extinguish the fire shall be taken. All fires occurring at the MRF are reported to FDEP by letter, within seven days, explaining the cause, remedial actions, and measures taken to prevent a recurrence.

A Fire Contingency Operations Plan is contained in Appendix E.

Natural Disasters

Natural Disasters are handled by the Hardee County Emergency Management personnel. The Hardee County Emergency Management telephone number is (863) 773-6373. The Solid Waste Director will approve and extend the Facility's operating hours during the time of the emergency. Should power disable the MRF operations, the loose waste will be landfilled.

Emergency Contacts

The following phone numbers can be used to notify the appropriate individual or agency:

Landfill Director:	(863) 773-5089 (Office)
(After hours, Call Central Dispatch):	(863) 773-4144
Police:	(863) 773-3265 or 911
Fire and Rescue:	(863) 773-4362 or 911
Hardee Co. Emergency Management	(863) 773-6373 or 911
FDEP, Tampa:	(813) 744-6100
Public Works:	(863) 773-3272
Equipment Rental:	(813) 671-3700

Landfill Shutdown--

Should the landfill be shut down for more than 48 hours, the FDEP will be notified. The MRF may continue to bale the waste for up to a total of three days. The baled waste will be stored in the MRF and MRF processing area with protective cover consisting of 6-mil Visqueen or other waterproof tarp. The Visqueen or tarp will be secured to the bales to prevent rainfall from entering the bales and to control vectors and odors. The Visqueen rolls or tarps will be available at the Household Hazardous Waste Collection Center.

Hardee County Landfill has a contact list of Class I, Class III, and C&D landfills that neighbor the County. Through the "Small County Coalition", various counties work together during times of emergency. The counties on the contact list will work with Hardee County during a time of emergency. The neighboring county's Waste Facility Contacts list is contained in Appendix C.

~~PERSONNEL DOCUMENTATION AND TRAINING~~RESPONSIBLE PERSONNEL

In accordance with Rule 62-701.710(4), Florida Administrative Code (F.A.C.), key supervisory staff has received certified training.

As stipulated in Rule 62-701.710(4), a trained operator/spotter is on duty during all operating hours. A ~~S~~state-certified l~~L~~andfill o~~O~~perator ~~will be~~is on site when waste is ~~received for disposal at the landfill working face~~unloaded, separated, and baled at the MRF. ~~A trained spotter is on site while waste is separated and baled at the MRF, and deposited at the landfill working face to detect any unacceptable wastes.~~

The following staff positions, along with the names of the current staff, are designated for the ~~landfill~~ MRF operations.

- Solid Waste Director – Teresa Carver
- Executive Assistant – Ofelia Reyna
- MRF Operator - Jerry Hutto, Landfill Operator, Spotter
- MRF/Landfill Spotter – Stephen Wingo, RRO/Spotter
- MRF/Landfill Spotter - Moises Serrano, RRO/Spotter

~~Heavy Equipment Operator, Donald Albritton, Spotter~~
~~Heavy Equipment Operator, Steve Collins, HEO/Spotter~~
~~Leachate Tanker Driver – David Barnes, HEO/Spotter~~

- Weighmaster - Joe Roman

Operator training includes a 24-hour course and 16 hours of continuing education every three years. Spotter training includes an 8-hour course and 4 hours of continuing education every three years. Operator and Spotter training courses will be attended as offered by the University of Florida Center for Training, Research and Education for Environmental Occupations (TREEO) and through other FDEP approved sources. A listing of TREEO training courses and schedule is available at www.treeo.ufl.edu is as presented in Appendix A of this Operations Plan.

Designation of Responsible Operating and Maintenance Personnel

The currently designated person responsible for operations and maintenance at the Hardee County Landfill is:

Ms. Teresa Carver
Solid Waste Director
Hardee County Solid Waste Department
685 Airport Road
Wauchula, FL 33873
Phone: (863) 773-5089

Any inquiries concerning the management and operation of the Hardee County Landfill facility should be submitted to the solid waste director's attention.

~~**Contingency Operations**~~

~~**Accidental Liquid Spills–**~~

~~In the case of an accidental spill of oil, fuel, leachate, or chemicals, the spill will be minimized by controlling the source immediately (e.g. by closing a valve, turning off switches, or taking other necessary actions to minimize the amount of spillage). The effected area will be controlled by diverting traffic around the spill. Runoff from the effected area will be controlled by placing a berm around the area, plugging a drain or ditch, or adding absorbent material. The effected area will be cleaned and the effectiveness of the cleanup will be confirmed by sampling, as needed depending upon the nature of the spilled material.~~

~~If a liquid spill material is found during offloading of waste materials, then the hauler will be asked to remove the liquid from the site. If a liquid is found and the hauler cannot be identified or an accidental spill occurs, then absorbent granules or soils will be placed on the spilled liquid. The absorbent granules or soils will be placed in barrels at the Household Hazardous Waste area until a private hauler can remove the material.~~

~~**Handling of Hazardous Waste Materials–**~~

~~Hazardous Waste Materials are not accepted at the landfill~~MRF~~. If a hazardous waste is mistakenly delivered to the landfill~~ MRF ~~or identified after unloading, the FDEP will be promptly notified and the hauler identified from a license plate or by hauling records. The hazardous materials will be marked with applicable markers and covered with 6 mil Visqueen or waterproof plastic tarp. The Visqueen rolls or plastic tarps are available at the Household Hazardous Waste Collection Center. If the hauler is identified, Hardee County will contact the person/entity who dumped the hazardous materials and request removal of the materials within 48 hours. If the 48 hours expire without removal, Hardee County will contact an independent hazardous waste hauler for proper disposal of the hazardous material at a permitted hazardous waste management facility.~~

~~**Fires–**~~

~~In the event of fire, the responding agency is the Hardee County Fire and Rescue Service (HCFRS), located approximately three miles west of the site, in Wauchula, Florida. Additionally, the landfill site is equipped with a dry fire hydrant for the filling of pumper trucks. The dry fire hydrant is located along the access road and is connected to the stormwater pond located immediately north of the scalehouse. Several on-site ponds are also available for filling fire fighting trucks equipped with pumps. Four water hydrants are located along the eastside of Class I landfill, on the eastside of the access road. Fire extinguishers are located in the equipment and at the maintenance barn for use in the event of small fires. There are also six fire extinguishers and five hose bibs located in the on-site MRF.~~

All fires occurring at the landfill MRF are reported to FDEP by letter, within seven days, explaining the cause, remedial actions, and measures taken to prevent a recurrence.

A Fire Contingency Operations Plan is contained in Appendix E.

Landfill Shutdown –

Should the landfill be shut down for more than 48 hours, the FDEP will be notified. The MRF may continue to bale the waste for up to a total of seven three days. The baled waste will be stored in the MRF and MRF processing area with protective cover consisting of 6 mil Visqueen or other waterproof tarp. The Visqueen or tarp will be secured to the bales to prevent rainfall from entering the bales and to control vectors and odors. The Visqueen rolls or tarps will be available at the Household Hazardous Waste Collection Center.

Hardee County Landfill has a contact list of Class I, Class III, and C&D landfills that neighbor the County. Through the "Small County Coalition", various counties work together during times of emergency. The counties on the contact list will work with Hardee County during a time of emergency. The neighboring county's Waste Facility Contacts list is contained in Appendix C.

Natural Disasters –

Natural Disasters are handled by the Hardee County Emergency Management personnel. The Hardee County Emergency Management telephone number is (863) 773-6373. The Solid Waste Director will approve and extend the Facility's operating hours during the time of the emergency. Should power disable the MRF operations, the loose waste will be landfilled.

Emergency Contacts –

The following phone numbers can be used to notify the appropriate individual or agency:

Landfill Director:	(863) 773-5089 (Office)
(After hours, Call Central Dispatch):	(863) 773-4144
Police:	(863) 773-3265 or 911
Fire and Rescue:	(863) 773-4362 or 911
Hardee Co. Emergency Management	(863) 773-6373 or 911
FDEP, Tampa:	(813) 744-6100
Public Works:	(863) 773-3272
Equipment Rental:	(813) 671-3700

Controlling Types of Waste Received

The landfill operators and scalehouse personnel are responsible for inspecting loads received at the landfill to detect and discourage attempts to dispose of unacceptable wastes. Each vehicle

entering the landfill must stop at the scalehouse and have its load weighed in and classified in one of the following categories:

1.Residential
2.Commercial
3.Yard Trash and Clean Wood
4.Appliances/Scrap Metal
5.Construction and Demolition Debris
6.Mixed Loads and Garbage
7.Special Handling (including Asbestos)
8.Pre-tested Contaminated Soil
9.Tires

After classification, the loads are assigned one of the following destinations:

1.Class I Landfill
2.Construction and Demolition Debris sent to the Class I Landfill
3.Yard Trash Processing Area
4.Scrap Metals and White Goods Storage Area
5.Material Recovery Facility (MRF)
6.Waste Tire Facility
7.Household Hazardous Waste Collection Center (HHWCC)

The scalehouse attendant visually checks each load and, depending on the type of material, directs the driver to the appropriate on-site facility. The waste materials is are also visually checked by trained County Landfill personnel or spotters at the MRF, landfill working face, Yard Trash Processing Area, Waste Tire Facility, Scrap Metals and White Goods Storage Area, and HHWCC. Random Inspections inspections of loads is also practiced to detect and discourage attempts to dispose of unacceptable waste, hazardous wastes, special waste materials or materials that require special processing (e.g. asbestos, contaminated soil, used oil, or biomedical waste). If this inspection reveals any unacceptable or potentially hazardous wastes, the Solid Waste Director is notified immediately.

Unacceptable Wastes--

The landfill does not accept closed or sealed containers; all drums, tanks, and cans must have one end open and must have been flushed. Other unacceptable wastes include septic tank sludge; paint thinners; gasoline or like liquids; biomedical waste from hospitals, doctor's offices or clinics. The facility does not accept any materials that the hauler cannot identify the composition of nor supply certification that the material is non-hazardous waste. Disposal of liquids or non-liquid (soils, rags, or other debris) containing PCB's (polychlorinated biphenyl) are not accepted at the Hardee County Landfill facility for disposal or storage. Solid wastes generated from outside the borders of Hardee County are not accepted without prior written approval from the Board of County Commissioners or their designee. All unacceptable waste must be managed as described in Section L.2.d.9.

Should an unacceptable load be encountered at the MRF, a Random Load Inspection Form shall be completed by the spotter; the form is located in Appendix D. A Random Load Inspection Form will be filled out for unacceptable waste; the form is located in Appendix D. If the Solid Waste Director deems that the working face should be shut down for safety reasons, another area within the landfill will be opened to allow continuing landfill operations.

Procedures for Handling Unacceptable or Improperly Placed Waste Loads–

- If unacceptable wastes are discovered at the MRF, the Solid Waste Director is immediately notified. The unacceptable was is segregated from the other wastes in the MRF. The waste hauler or generator of the waste is then contacted to retrieve and remove the unacceptable waste and instructed on the proper disposal.

- If the waste hauler or generator of the waste is unknown and the unacceptable waste that does not pose a threat to County staff, then the unacceptable waste may be stored, if containers and space are available, at the Household Hazardous Waste Collection Center (HHWCC) for temporary storage prior to being removed from the site and disposed of properly.

- If unacceptable wastes are of an unknown waste material, or pose a threat to County staff, or the waste hauler or generator is identified and the quantity of wastes cannot be moved or stored in the HHWCC, a front-end loader will isolate the unacceptable waste from other waste while keeping it within the lined area of the landfill and marking it with applicable markers. The load will be covered with 6-mil Visqueen or waterproof tarp and a perimeter berm will be placed around the load to minimize contact with stormwater. The Visqueen rolls or plastic tarps are available at the Household Hazardous Waste Collection Center. Hardee County will contact the person/entity who dumped the unacceptable waste and request removal within 48 hours. If the 48 hours expire without removal, Hardee County will contact an independent waste hauler for proper disposal of the waste at a permitted facility.

- Waste Materials that can be accepted for storage and disposal; however, are not placed in the appropriate disposal or storage area will be separated from the waste and moved to the appropriate storage or disposal area.

- A Random Load Inspection Form will be filled out for unacceptable waste; the form is located in Appendix D. If the Solid Waste Director deems that the working face should be shut down for safety reasons, another area within the landfill will be opened to allow continuing landfill operations.

EQUIPMENT AND OPERATION FEATURE REQUIREMENTS

There is sufficient equipment on-site so that landfill operations would not cease in the event of an equipment failure. If the MRF ceases to operate, the waste will be disposed of as loose waste in the disposal area of the landfill.

The County budgeted enough funds for one month's leasing or rental of heavy equipment for contingency purposes. A list of the vendor contacts and equipment list is located in Appendix B

Sufficient Equipment for Operations

The following equipment is owned by the county and is currently available at the ~~landfill~~MRF:

~~2003~~	~~Ford Explorer Sport Trac 4x4~~
1994	Pick-up 1/2 ton Ford F150 4x2
2002	Dodge 2500 12 passenger van Ram
~~1987~~	~~Ford dump truck~~
~~1995~~	~~White GMC Tractor Truck, Model WG641, CAT ENG 3306~~
~~1967~~	~~Frue, 5000 gallon Tanker, Model MDM131AS~~
1993	Ford Truck, Flat bed Dump 8 Cylinder, F70
1999	Bobcat 863 Loader 73.5 HP
~~2000~~	~~CAT 950G Wheel Loader~~
~~1988~~	~~Excavator, CAT Model 215C~~
~~2002~~	~~CAT Dozer D7R~~
2001	Yale GC060T Fork Lift

Reserve Equipment

The existing equipment on site, listed in the section above, is sufficient to operate the incoming waste stream to the MRF. ~~handle the incoming waste stream.~~ Should unforeseen circumstances require more equipment than is currently available, the County has budgeted enough funds for one month's leasing or rental of heavy equipment. Additionally, equipment from the Hardee County Public Works Road and Bridge Section is available to the Solid Waste Department for use during an emergency.

Communication Equipment and Shelter

The MRF is equipped with water supply, toilet facilities, telephone, two-way radios, and emergency first-aid supplies. The building also provides shelter for employees in case of inclement weather. The maintenance building is equipped with spare parts, tools, equipment, and electrical services for operations and repair.

The scalehouse and on-site landfill office are equipped with telephones for emergency communications; two-way radios are available at the scalehouse for distribution to landfill

personnel to allow for emergency communications between the scalehouse/landfill office and employees are working ~~on the landfill~~at the MRF.

~~The scalehouse is equipped with water supply, toilet facilities, and emergency first-aid supplies. The building also provides shelter for employees in case of inclement weather. The maintenance building is equipped with spare parts, tools, equipment, and electrical services for operations and repair.~~

~~Dust Control Methods~~

~~During dry periods, when dust control is needed, such as on haul roads, the Yard Trash Processing Area, or in area(s) where dusty conditions cause a vehicle safety problem or dust is blowing offsite, water will be sprayed over these areas as necessary to keep dust particles moist and minimize particles from blowing into the air. Water from the on-site stormwater pond or taken from the onsite water hydrants will be pumped into a 1,000-gallon tanker truck equipped with a spray bar and nozzles to use for wetting the roads. The tanker truck will be provided through the Hardee County Public Works Department.~~

~~Fire Protection~~

~~As stated in Section L.2.c, in the event of fire, the responding agency is the Hardee County Fire and Rescue Service, located approximately three miles west of the site, in Wauchula, FL. Additionally, the landfill site is equipped with a dry fire hydrant located adjacent to the pond immediately north of the scalehouse for the filling of pump trucks. Four water hydrants are located along the eastside of Class I landfill, on the eastside of the entrance road. Fire extinguishers are located in the equipment and at the maintenance barn for use in the event of small fires. There are also six fire extinguishers and five hose bibs located in the on-site MRF.~~

~~A Fire Contingency Operations Plan is contained in Appendix E.~~

Litter Control Devices

On a daily basis, ~~landfill personnel or contract laborers~~Hardee County Correctional Inmates collect litter along the perimeter of the MRF. ~~the entrance and access roads, at buildings, in the parking areas, and in the vicinity of the working face. Litter control fences are used along the perimeter of the working face to lessen the amount of blown litter. The fences are erected at the beginning of each workday and removed at the end of the day. Litter is also controlled by baling most of the landfilled wastes.~~

~~Signs~~

~~A sign at the intersection of S.R. 636 and Airport Road marks the turnoff from S.R. 636 to the Hardee County Landfill. A sign at the entrance to the landfill displays the days and hours of operation. Signs or markers are posted throughout the facility indicating traffic flow directions, types of waste that are not acceptable, speed limits, and under ground liner location. All~~

~~manholes are marked with a warning sign stating "This Manhole Contains Toxic and Explosive Gasses. Do Not Enter Without Proper Ventilation".~~

~~**SITE ACCESS ROADS**~~

~~The entrance to the landfill, scalehouse, MRF, Household Hazardous Waste Center, and Animal Control Kennel are asphalt paved. The road leading to the Waste Tire Facility, Scrap Metals and White Good Storage Area, Leachate Storage Tanks, and Class I landfill are also asphalt paved. All other roads are dirt roads. The roads are crowned and slightly elevated above the surrounding grades with drainage swales on both sides to promote drainage. The roads with excessive washouts are routinely graded by the onsite Landfill personnel or Hardee County Public Works Department. The access ramp to the working faces is compacted soil with pea gravel or shell placed over it. This access ramp is adequate for landfill operating equipment to reach the working area during almost all weather conditions. Should conditions prevent the flatbed truck carrying baled waste from the disposal area, the loader can be used to carry the bales to the working face.~~

ADDITIONAL RECORD KEEPING AND REPORTING REQUIREMENTS

Records for Development of Permit Applications

In addition to waste and operating records, supplemental information from the permit applications and information pertaining to the landfill's construction and maintenance are on file at the facility. These records will be retained at the site for the remainder of the landfill's life.

Copies of Reports Maintained for 10 Years

Records of all monitoring information, including calibration and maintenance records, and copies of reports required by the permit will be retained for at least 10 years.

~~Annual Estimates of Remaining Life~~

~~Hardee County will maintain an annual estimate of the remaining solid waste disposal capacity (in cubic yards) and life of the existing Class I landfill. The estimate will be based on the geometry of the solid waste disposal area and the scalehouse waste records. These estimates will be reported to the FDEP annually.~~

Archiving and Record Retrieval

All records pertaining to the operation of the facility will be retained throughout the design life of the landfill. All monitoring records, calibration and maintenance records, and reports required by the operating permit will be retained for at least ten years.

APPENDIX A

TRAINING COURSES

Florida's Solid Waste Management Facility Operator and Spotter Approved Initial and Continuing Education Courses

Last updated 6/24/03

Initial training courses can be taken for continuing education credit if the course was not taken as the initial training course.
The initial course can be retaken as continuing education credit during the second three-year training period.
Courses taken prior to your initial training does not count toward continuing education.

Class I, II, III Landfill Operators [*Initial Training*]

No.	COURSE TITLE	PROVIDED BY	I, II, III	C&D	Transfer	MRF	Spotter
30	SWANA - Manager of Landfill Operations Training Course [MOLO®]	SWANA	30				
160	SWANA - Manager of Landfill Operations [MOLO®]	SWANA-FL / UF TREEO	30	30			
195	24-Hour Initial Training Course for Landfill Operators (Class I, II and III and C&D Sites)	Kohl Consulting, Inc.	24				

Construction and Demolition Debris Operators [C & D] [*Initial Training*]

No.	COURSE TITLE	PROVIDED BY	I, II, III	C&D	Transfer	MRF	Spotter
0	Construction and Demolition Debris Landfills - A Short Course for Operators-24 hours	SWANA-FL / UF TREEO		24			
195	24-Hour Initial Training Course for Landfill Operators (Class I, II and III and C&D Sites)	Kohl Consulting, Inc	24	24			

Transfer Stations [*Initial Training*]

No.	COURSE TITLE	PROVIDED BY	I, II, III	C&D	Transfer	MRF	Spotter
196	16-Hour Initial Training Course for Transfer Station Operators	Kohl Consulting, Inc			16		
225	19-Hour Initial Training for Transfer Station and MRF Operators	Kohl Consulting, Inc			19	19	
42	Transfer Station Design & Operations	SWANA			16		
222	SWANA - Managing MSW Transfer Station Systems	Solid Waste Association of North America SWANA			16		

Materials Recovery Facilities [MRF] [*Initial Training*]

No.	COURSE TITLE	PROVIDED BY	I, II, III	C&D	Transfer	MRF	Spotter
225	19-Hour Initial Training for Transfer Station and MRF Operators	Kohl Consulting, Inc			19	19	
197	16-Hour Initial Training Course for Materials Recovery Facilities [MRFs]	Kohl Consulting, Inc				16	

Spotters [*Initial Training*]

No.	COURSE TITLE	PROVIDED BY	I, II, III	C&D	Transfer	MRF	Spotter
203	8 Hour Initial Training for Spotters at Class I, II, III Landfills, Waste Processing Facilities, and C&D Sites	Kohl Consulting, Inc.	8	8	8	8	8
219	8-Hour Initial Training for Spotters	Consolidated Resource Recovery, Inc.	8	8	8	8	8
97	Basic Landfill Operations	Kohl Consulting, Inc.	8	8	8	8	8
91	Eight Hour Spotter Training for C&D Sites	Kohl Consulting, Inc.	8	8	8	8	8
121	Eight-Hour Training for Personnel at C&D Materials Recovery Facilities	Kohl Consulting, Inc.	8	8	8	8	8
111	Landfill Operations and Waste Screening for Class I, II & III Sites	Kohl Consulting, Inc.	8	8	8	8	8
257	Spotter Training Course – 8 Hours Initial Training	Hewitt Contracting Company, Inc.	8	8	8	8	8
248	Spotter Training for Solid Waste Facilities	UF TREEO	8	8	8	8	8
214	Spotter Training Plan for Land Clearing Debris Site	Wetland Solutions	8	8	8	8	8
147	Training for Spotters at Landfills, C&D Sites and Transfer Stations	JEA/TREEO	8	8	8	8	8
36	Waste Screening & Identification For Landfill Operators and Spotters	TREEO	8	8	8	8	8
122	Waste Screening and Operation Orientation for Transfer Station Personnel	Kohl Consulting, Inc.	8	8	8	8	8
9	Waste Screening at MSW Management Facilities {On-site Delivery}	SWANA	10	10	10	10	10

NO.	COURSE TITLE	PROVIDED BY	I, II, III	C&D	Transfer	MRF	Spotter
204	1-Hour Overview of Health & Safety Issues at Solid Waste Facilities	Kohl Consulting, Inc	1	1	1	1	
105	11th Annual SE Recycling Conference & Trade Show [3/1-4/98]	SE Recycling	8	8			
197	16-Hour Initial Training Course for Materials Recovery Facility (MFR) Operators	Kohl Consulting, Inc.	10	10	8	8	
196	16-Hour Initial Training Course for Transfer Station Operators	Kohl Consulting, Inc.	10	10	8	8	
52	17-701 & 17-703 Update [6/17/94]	SWANA - FL	4				
225	19-Hour Initial Training Course for Transfer Station and MRF Operators	Kohl Consulting, Inc	10	10	8	8	
282	24-Hour HazWoper Technician Training	Safety Training & Consulting	6	6	6	6	
195	24-Hour Initial Training Course for Landfill Operators (Class I, II, III, and C&D Sites)	Kohl Consulting, Inc.	16	16			
169	40-hour Train-the-Trainer Program for Hazardous Waste Operations and Emergency Response Program	Chinn Training	8	8	8	8	
283	8-Hour DOT HM-126 Training	Safety Training & Consulting	4	4	4	4	
167	8-Hour HazWoper OSHA Refresher	FDEP / All Pro	4	4	4	4	
144	8-Hour HazWoper Refresher Training	Stephen Mraz	4	4	4	4	
203	8-Hour Initial Training Course for Spotters at Class I, II, III Facilities, Waste Processing Facilities, and C&D Facilities	Kohl Consulting, Inc.	8	8	8	8	8
219	8-Hour Initial Training for Spotters	Consolidated Resource Recovery, Inc.	8	8	8	8	8
270	Advanced Topics in Compost Utilization	UF IFAS Extension Office	2	2		2	2
182	Air Compliance and LGF System Operation [11/9-10/00]	SCS Engineers	16				
288	A Little is Enough: Reducing Man-Made mercury Impacts	UF TREEO Center	2	2	2	2	2
71	An Overview of Solid Waste Technologies and Waste Screening Review	Kohl Consulting, Inc.	2	2	2	2	2
127	Asbestos Awareness Course for Landfill Operators	UF TREEO Center	4	4	4	4	4
236	Asbestos Awareness Refresher Course for Landfill Operators	UF TREEO Center	2	2	2	2	2
145	Authorized Entrant for Permit – Required Confined Spaces	UF TREEO Center	16				
143	Avoiding OSHA Citations and Liabilities in Florida [6/29/99]	Lorman Education Services	6				
97	Basic Confined Space [8/17/99]	North Florida Environmental Services	8	8	8	8	8
253	Basic Landfill Operations	Kohl Consulting, Inc.	8	8	8	8	8
72	Basic Math for Water and Wastewater Operations at FW&PCOA Annual or Regional Short School	Michael Switzer	5	5	5	5	
206	Bird and Wildlife Management at Solid Waste Mgmt Facilities	UF TREEO Center	8	8	8		
285	Bird Management at Solid Waste Facilities	UF TREEO Center	4	4	4		
233	Chemical Compatibility and Storage	UF TREEO Center	4	4	4	4	4
12	Chemicals That You Work With	Charlotte County	2	2	2	2	2
16	Chemistry for Environmental Professionals	UF TREEO Center	8	8	8	8	8
278	Complete Preventative Maintenance: Using New Technologies [No longer offered]	UF TREEO Center	13				
35	Compost Tour and Hands-On Training [5/20/03]	UF – IFAS Extension Office	3				
18	Confined Space Entry & Assessment	Applied Associates International	8	8	8	8	
29	Confined Space Entry & Assessment [no longer offered]	UF TREEO Center	20				
181	Confined Space Entry & Rescue	South Tech Fire Academy	40	40	40	40	
80	Confined Space for Private Industry	Sarasota Co. Tech	24	24	24	24	
200	Construction and Demolition Debris Landfills - A Short Course for Operators [no longer offered] (See #200)	UF TREEO Center/ SWANA – FL	20	20			
103	Construction and Demolition Debris Landfills - A Short Course for Operators - 24 hours	UF TREEO Center/ SWANA – FL	16	16			
114	Construction and Demolition Waste Recycling	UF TREEO Center	7	7		7	7
	Debris Management G202	FEMA/FL Div	12	12	12	12	12

Continuing Education No.	COURSE TITLE	PROVIDED BY	I, II, III	C&D	Transfer	MRF	Spotter
136	Debris Management-Advanced Course (G202-Advanced)	FDEP/FEMA	8	8	8	8	8
161	Design of Lateral Drainage Systems for Landfills [3/14/00]	Tenax	5				
108	Developing a Usable Operations Plan	Kohl Consulting, Inc.	4	4	4	4	4
130	Eight Hour Confined Space Training Course	Charles Davis	8	8	8	8	8
91	Eight Hour Spotter Training for Construction & Demolition Sites	Kohl Consulting, Inc.	8	8	8	8	8
287	Emergency Response Operations for Incident Command	UF TREEO Center	4	4	4	4	
40	Environmental Drilling, Well Installation & Sampling	Nielson Environmental Field School, Inc.	16	16			
271	Environmental Management Systems - Introduction	UF TREEO Center	2	2	2	2	
175	Environmental Management Systems - Overview	UF TREEO Center	4	4	4	4	
176	Environmental Management Systems Internal Audit Procedures	UF TREEO Center	4	4	4	4	
43	Environmental Sampling Laboratory & Data Analysis [12/12-12/94]	Executive Enterprises, Inc.	12				
100	Excavation, Trenching: Competent Person Training	UF TREEO Center	8	8			
284	Excavation, Trenching: Competent Person Training 16-Hour	UF TREEO Center	16	16			
66	Exposure to Bloodborne and Waterborne Pathogens *[No longer offered]*	UF TREEO Center	8				
167	FDEP 8-Hour HazWoper OSHA Refresher [5/3/00]	FDEP / All Pro	4	4	4	4	
199	FDEP 8 Hour HazWoper OSHA Refresher [5/1/01]	FDEP	4	4	4	4	
228	FDEP 8 Hour HazWoper OSHA Refresher [5/22/02]	FDEP / Kenton Brown	4	4	4	4	
232	FDEP 8 Hour HazWoper OSHA Refresher [5/22/02]	FDEP [Bottcher/Knox]	4	4	4	4	
266	FDEP 8 Hour HazWoper OSHA Refresher [5/5/03, 5/9/03]	FDEP	4	4	4	4	
48	FDEP Annual SQG Assessment, Notification & Verification Program Workshop [4/30/96]	FDEP	5				
88	FDEP Annual SQG Assessment, Notification & Verification Program Workshop [5/5-7/97]	FDEP	5				
107	FDEP Annual SQG Assessment, Notification & Verification Program Workshop [5/4-6/98]	FDEP	7	7	7	7	
134	FDEP Annual SQG Assessment, Notification & Verification Program Workshop [5/3-5/99]	FDEP	5	5	5	5	
226	FDEP Annual SQG Assessment, Notification & Verification Program Workshop [5/20-21/02]	FDEP	5	5	5	5	
264	FDEP Annual SQG Assessment, Notification & Verification Program Workshop [5/6-7/03]	FDEP	5	5	5	5	
267	FDEP DOT 4 Hour Awareness Training [5/5/03, 5/9/03]	FDEP	2	2	2	2	2
268	FDEP HHW Facility Design [5/9/03]	FDEP	4	4	4	4	4
54	FDEP HHW & Conditionally Exempt SQG [5/3-5/95]	FDEP	14				
59	FDEP HHW & Conditionally Exempt SQG [5/1/96]	FDEP	5				
84	FDEP HHW & Conditionally Exempt SQG [5/5-7/97]	FDEP	5				
106	FDEP HHW & Conditionally Exempt SQG [5/6-8/98]	FDEP	5	5	5	5	
135	FDEP HHW & Conditionally Exempt SQG [5/5-7/99]	FDEP	5	5	5	5	
166	FDEP HHW & Conditionally Exempt SQG [5/1-3/00]	FDEP	5	5	5	5	
198	FDEP HHW & Conditionally Exempt SQG [4/30-5/1/01]	FDEP	5	5	5	5	
227	FDEP HHW & Conditionally Exempt SQG [5/22-24/02]	FDEP	5	5	5	5	
227	FDEP HHW & Conditionally Exempt SQG [5/7-8/03]	FDEP	5	5	5	5	5
32	Field Sampling Short School [7/22-24/91]	Environmental Technology Center	22				
110	Fires at Landfills	Kohl Consulting, Inc.	2	2		2	
289	Florida Stormwater and Erosion Control and Sedimentation Inspector Training Program	METRA-North	12	12	8	4	
273	Florida Master Naturalist Program – Florida Freshwater Wetlands Systems	UF IFAS Extension Office	4	4	4	4	
155	Four Hour Spotter Orientation for Class I, II and III Supervisors	Kohl Consulting, Inc.	4	4	4	4	4
156	Four Hour Spotter Orientation for Class I, II, and III Landfills	Kohl Consulting, Inc.	4	4	4	4	4

Continuing Education							
	COURSE TITLE	PROVIDED BY	I, II, III	C&D	Transfer	MRF	Spotter
119	Four Hour Spotter Training Refresher for Construction & Demolition Sites	Kohl Consulting, Inc.	4	4	4	4	4
113	Full Cost Accounting for Municipal Solid Waste Management [2/17/98]	Terra Tech EM Inc	6				
120	Fundamentals of Operations for MRF Facilities Personnel	Kohl Consulting, Inc.	8			8	
274	Fundamentals of Slope Stability	UF TREEO Center	16	16			
271	General Environmental Workshop [Feb-Mar 2003]	METRA	4	4	4	4	4
154	Geosynthetics for Advanced Solutions [11/4/99]	GSE Lining Tech	6				
152	Groundwater Issues for Landfill Operators	UF TREEO Center	6	6			
17	Groundwater Monitoring, Analysis and Data Interpretation	UF TREEO Center	12	12			
76	Groundwater Monitoring, Requirements and Techniques for Landfills	Kohl Consulting, Inc.	2	2			
101	Hazard Communications Course	Escambia County Emergency Prep	4	4	4	4	4
85	Hazardous Material and Site Investigations	EnSafe	6	6	6	6	6
82	Hazardous Material Chemistry for Non-Chemist [1/18/95]	St. Petersburg Junior College	7				
286	Hazardous Material Chemistry for Non-Chemist	UF TREEO Center					
131	Hazardous Material Recognition Awareness Level Refresher [3/1/96]	Citrus County	4				
81	Hazardous Material Transportation [no longer offered]	UF TREEO Center	4				
50	Hazardous Materials Awareness Training [1/25/94]	Citrus County	8				
102	Hazardous Materials in Construction & Demolition Waste	UF TREEO Center	4	4			
224	Hazardous Materials in Construction & Demolition Waste OnLine	UF TREEO Center	4	4			
86	Hazardous Materials Incident Awareness Level Training [2/5/97]	Escambia County Emergency Prep	8	8	8	8	8
70	Hazardous Materials Management Conference [11/6-9/96]	International City & County Mgmt Associate	12				
98	Hazardous Materials Transportation Seminar [5/7-8/97]	City Environmental Services, Inc of Florida	5	5	5		
34	Hazardous Waste & Emergency Response	Applied Associates International	8	8	8	8	8
53	Hazardous Waste Management for Government Employees [9/95, 10/95]	UF TREEO Center	6				
60	Hazardous Waste Mgmt 40 CFR 261-265 [4/17/96]	Occupational Safety Training, Inc.	8				
99	Hazardous Waste Operations & Emergency Response	Sterling Fibers/ESP	3	3	3		
188	Hazardous Waste Operations Emergency Response Refresher	Orange Co. Environmental Protection Division	4	4	4	4	
63	Hazardous Waste Regulations for Generators	UF TREEO Center	4	4	4	4	4
20	Hazardous Waste Training for Solid Waste Managers [7/16/93]	SWANA – FL	5				
217	HazWoper 24-Hour Moderate Risk Online	UF TREEO Center	6	6	6	6	3
216	HazWoper 40-Hour OSHA Health & Safety Online	UF TREEO Center	8	8	8	8	
218	HazWoper 8-Hour Refresher Online	UF TREEO Center	4	4	4	4	4
269	HazWoper 8 Hour OSHA Refresher	Gulf Coast Industrial Services Inc.	4	4	4	4	4
115	HazWoper Material Control & Emergency Response	Air Safe	8	8	8	8	4
170	Health & Safety Issues for Solid Waste Management Facilities	Kohl Consulting, Inc.	8	8	8	8	4
281	Health and Safety for Solid Waste Workers	UF TREEO Center	8	8	8	8	8
69	Health and Safety Training for Hazardous Materials: 40-Hour OSHA Compliance Course	UF TREEO Center	8	8	8	8	
62	Health and Safety Training for Hazardous Materials: 8 hour OSHA Refresher	UF TREEO Center	4	4	4	4	2
223	Health and Safety Training for Landfill Operations OnLine	UF TREEO Center	5	5	5	5	2
149	Health and Safety Training for Landfill Operations	UF TREEO Center	5	5	5	5	2
201	Hiring and Retaining Good Employees	UF TREEO Center	2	2	2	2	
33	Household Hazardous Waste [6/30/94]	Care Environmental Corp.	4				
209	Hurricane Preparedness and Post Disaster Recovery Workshop [8/10/01]	Dewberry & Davis LLC	8	8	8	8	8

Continuing Education

No.	COURSE TITLE	PROVIDED BY	I, II, III	C&D	Transfer	MRF	Spotter
19	Hydrogeology: Applications of Fundamental Concepts & Field Techniques to Florida Groundwater Investigations *[No longer offered]*	UF TREEO Center	20	20			
11	Inspection Procedures for Agri-chemical Containers offered for Recycling *[No longer offered]*	Dept. of Agriculture & Consumer Services	1				
44	Inspection Procedures for Agri-chemical Containers offered for Recycling [Pesticide] *[No longer offered]*	Institute of Food & Agriculture Science [IFAS]	1				
129	Inspector's Handbook for Construction Projects	Hillsborough County Solid Waste	7				
151	Integrated Management Course: Hurricane Recovery and Mitigation	FEMA/EMI	7	7	7	7	
37	Introduction to Electrical Maintenance [prior to 1/1/02]	UF TREEO Center	7				
212	Introduction to Electrical Maintenance [taken after 1/1/02]	UF TREEO Center	16	16	16	16	
14	Introduction to Groundwater: Contamination, Investigation, & Remediation Assessment	UF TREEO Center	13	13			
124	Landfill Compaction Training School [prior to 1/1/02]	Caterpillar & Ringhaver Equipment	5	5			
229	Landfill Compaction Training School - 8 hours *[taken after 1/1/02]*	Caterpillar & Ringhaver Equipment	8	8			
75	Landfill Compliance Inspections	Kohl Consulting, Inc.	2	2			2
157	Landfill Design and Construction [3/27-30/00]	UF TREEO Center	28				
4	Landfill Design: Cell Design & Construction [3/9/92]	UF TREEO Center	14.5				
6	Landfill Design: Closure & Long Term Care [5/19/92]	UF TREEO Center	15				
2	Landfill Design: Conceptual Design Operations & Monitoring [1/12/92]	UF TREEO Center	14.5				
78	Landfill Design: Landfill Design and Construction [5/5-9/97]	UF TREEO Center	28				
5	Landfill Design: Leachate & Gas Management [3/11/92]	UF TREEO Center	15				
79	Landfill Design: Leachate and Gas Management System Design [6/10-12/97]	UF TREEO Center	21				
3	Landfill Design: Liner Systems Materials Installation & Quality Assurance [2/11/92]	UF TREEO Center	14				
1	Landfill Design: Planning & Permitting [1/21/92]	UF TREEO Center	14				
77	Landfill Design: Planning and Permitting for Solid Waste Management [4/8-9/97]	UF TREEO Center	16				
179	Landfill Gas & Energy: Alternative Uses [9/25-27/00]	CDM, Inc.	8				
49	Landfill Gas & Leachate Systems	UF TREEO Center / SCS Engineers	8	8			
172	Landfill Gas Collection and Control Systems [8/19-20/99]	CDM, Inc.	8				
276	Landfill Gas Collection and Control Systems Operator Training [9/2002]	Waste Management.	12				
83	Landfill Gas NSPS Workshop [7/15/96]	FDEP	6				
67	Landfill Gas NSPS Workshop [7/9/96]	SWANA - FL	4				
57	Landfill Gas System Design- A Practical Approach [6/14-15/94]	Landfill Control Technologies	8				
89	Landfill Gas: How to Profit From the New Mandates [6/17/97]	FDEP	7				
194	Landfill Operating Issues for Class I, II, III and C&D Sites	Kohl Consulting, Inc.	8	8			8
260	Landfill Operation Online	UF TREEO Center	16	16			
261	Landfill Operation	UF TREEO Center	16	16			
111	Landfill Operations and Waste Screening for Class I, II & III Sites	Kohl Consulting, Inc.	8				8
58	Landfill Operator Education (Landfill Mining and Landfill Gas and Leachate Mgmt) [3/22/96]	SWANA - FL	4				
168	Landfill Service School (Leachate Pumps and Controls School) [3/25-26/99]	EPG Companies	7	7			
118	Landfill Wildlife Training Course	Applied Technology & Management, Inc - ATM/UF TREEO Center	4	4			
277	Laws and Rules for Florida Engineers - *only for PEs	UF TREEO Center	4				
158	Leachate and Gas Management System Design [5/9-10/00]	UF TREEO Center	12				

Continuing Education No.	COURSE TITLE	PROVIDED BY	I, II, III	C&D	Transfer	MRF	Spotter
125	Management of Leachate, Gas, Stormwater and Odor at Class I, II, III Landfills	Kohl Consulting, Inc.	8	8			
249	Management of Special Waste for SWM Facility Operators	Kohl Consulting, Inc.	4	4	4	4	4
109	Measurements and Calculations for Landfill Operators	Kohl Consulting, Inc.	5	5			
38	Mechanical Maintenance (Pumps and Pumping) (prior to 1/1/02) (see #213)	UF TREEO Center	7				
140	Meeting the Challenges of Environmental Liability with Case Studies in Solid Waste [6/16/99]	SWANA - FL	4				
128	Methods of Erosion and Sedimentation Control for Construction Sites	UF TREEO Center/FDEP	6	6			
208	NPDES Phase II Inspector Certification Course	University of Florida – T2 Center	12	12	8	4	
180	NUCA Competent Person Training	Sarasota Co. Tech	8	8			
10	On Site Operations Personnel [11/91]	SWANA - FL					
177	OSHA 40-Hour Course	R. Cooey	8	8	8	8	
165	OSHA 8-Hour HazWoper Annual Refresher [8/25/00]	University of North Florida Safety America	4	4	4	4	2
142	OSHA 8-Hour Refresher for Hazardous Waste Operations and Emergency Response	FDEP/Jamson	4	4	4	4	2
68	OSHA Update Seminar [8/7/96]	J.J. Keller & Associates, Inc.	6				
183	Overview of Class I Landfill Operations and Waste Screening	Kohl Consulting, Inc.	3	3			3
92	Overview of Solid Waste Management Technologies	Kohl Consulting, Inc.	3				
184	Overview of Transfer Stations Operations and Waste Screening Review	Kohl Consulting, Inc.			3	3	3
15	Overview Understanding the Planning & Training Requirements of Big 3:OSHA, EPA, DOT (Regulatory Overview)	UF TREEO Center	7				
2	Pedestrian, Vehicles and Equipment Safety at Transfer Stations	Kohl Consulting, Inc.			2	2	2
186	Pedestrian, Vehicles and Equipment Safely in the Landfill	Kohl Consulting, Inc.	2	2			2
104	Permit Required Confined Space Training	UF TREEO Center	8	8	8	8	
96	Personnel Law Up-date [12/11-12/96]	Council on Education in Management	5				
239	Pollution Prevention and Environmental Essentials Conference	UF TREEO Center	5	1	5	5	
230	Proper Maintenance of Heavy Equipment and Safety	Caterpillar & Ringhaver Equipment	3	3	3	3	3
153	Pump Maintenance [4/13-14/00]	National Tech Transfer	7				
213	Pumps and Pumping (taken after 1/2/02)	UF TREEO Center	16	16	16	16	
237	Recycle Organics 2002	University of Florida - IFAS	4	4	4	4	
280	RecycledFlorida Today 10th Annual Conference [6/3-6/03]	RecycledFlorida Today	5	4	5	5	
90	Recycling Coordinator Training Course 1997 (Basic Recycling Training) [5/19-21/97]	UF TREEO Center	8	8			
137	Recycling Coordinator Training Course 1999	UF TREEO Center	8	8			
205	Recycling Coordinators Training Course 2001 [8/2--24/01]	SWANA - FL					
146	Recycling Disaster Debris [8/6/99]	University of Central Florida / Engineering	6	6	6	6	6
193	Safe Operating Issues for Transfer Stations	Kohl Consulting, Inc.			2	2	
123	School/University Advanced Recycler Training Course [10/20-21/98]	UF TREEO Center	7	7			
7	Site Monitoring at Solid Waste Facilities	SWANA - FL	10				
139	Solid Waste Facility Operations for Construction and Demolition Operators [No longer offered] (See #196)	Kohl Consulting, Inc.		20			
138	Solid Waste Facility Operations for Landfill Operators [No longer offered] (See #196)	Kohl Consulting, Inc.	20				
41	Solid Waste in Florida's Small Counties Workshop	Florida Counties Foundation & the Florida Institute of Government	4				
21	Solid Waste Landfill Operators Short School [No longer offered]	UF TREEO Center/SWANA - FL	20				
28	Solid Waste Landfills Correspondence Course (course # C240-A180)	University of Wisconsin	20	20			

Continuing Education

No.	COURSE TITLE	PROVIDED BY	I, II, III	C&D	Transfer	MRF	Spotter
22	Solid Waste Management: Managing Special Waste [5/19/92]	UF TREEO Center	6				
55	Solid Waste Regulatory Review Workshop [3/10/95]	SWANA - FL	3				
257	Spotter Training Course – 8 Hours Initial Training	Hewitt Contracting Company, Inc.	8	8	8	8	8
263	Spotter Training for Solid Waste Facilities Refresher	UF TREEO Center	4	4	4	4	4
248	Spotter Training for Solid Waste Facilities	UF TREEO Center	8	8	8	8	8
214	Spotter Training Plan for Land Clearing Debris Site	Wetland Solutions	8	8	8	8	8
150	Storm Water Management Training	S2Li	4				
202	Stormwater Inspector Certification Course	Sarasota Co. Tech	12	12	8	4	
39	Stormwater Management for Landfills *[No longer offered]*	UF TREEO Center	8				
56	Successfully Contracting for Solid Waste Services [7/14/95]	SWANA - FL	4				
61	Successfully Contracting Solid Waste Services	UF TREEO Center / SCS Engineers	4				
215	SWANA - 2001 Special Waste Conference [12/3-4/01]	SWANA	10	9	10	8	
258	SWANA - 2002 Special Waste Conference [12/5-6/02]	SWANA	10	9	9	9	
242	SWANA - Business Planning, Marketing and Communications for the Solid Waste Industry	SWANA	8	8	4	4	
252	SWANA - FEMA's Debris Management	SWANA	8	8	8	8	8
250	SWANA - Construction and Demolition Debris Course	SWANA	22	22	22	22	8
47	SWANA - Financing Integrated MSW Management Systems [5/14/96]	SWANA	8				
46	SWANA - Groundwater Monitoring/Leachate Mgmt	SWANA	8	8			
94	SWANA - Health & Safety at MSW Landfills	SWANA	10	10			
238	SWANA - Household Hazardous Waste & CESQG Facility Operations 24 hour Training	SWANA / SWANA - FL	15	15	15	15	15
26	SWANA - International Meeting [8/11-13/91]	SWANA	20				
245	SWANA - Leadership Skill Development for Solid Waste Professionals	SWANA	8	8	4	4	
244	SWANA - Landfill Gas Basics	SWANA	8	8			
27	SWANA - Landfill Gas Management (Spring Seminar 1994) [3/4/94]	SWANA	4				
133	SWANA - Landfill Gas Symposium 22nd Annual [3/22-25/99]	SWANA	15				
163	SWANA - Landfill Gas Symposium 23rd Annual [3/22-30/00]	SWANA	15				
190	SWANA - Landfill Gas Symposium 24th Annual [3/19-23/01]	SWANA	18				
262	SWANA - Landfill Gas Symposium 26th Annual [3/25-27/03]	SWANA	15				
231	SWANA - Landfill Gas System Operation and Maintenance	SWANA	20	20			
93	SWANA - Landfill Operational Issues	SWANA	8	8			
74	SWANA - Landfill Symposium 1st Annual [11/4-6/96]	SWANA	17				
87	SWANA - Landfill Symposium 2nd Annual [2/4-6/97]	SWANA	18				
117	SWANA - Landfill Symposium 3rd Annual [7/22-24/98]	SWANA	18				
159	SWANA - Landfill Symposium 4th Annual [6/28-30/99]	SWANA	16				
211	SWANA - Landfill Symposium 6th Annual [6/18-20/01]	SWANA	18				
275	SWANA - Landfill Symposium 8th Annual [6/17-19/03]	SWANA	13				
245	SWANA - Leadership Skill Development for Solid Waste Professionals	SWANA	8	8	4	4	
8	SWANA - Managing Landfill Gas at MSW Landfills	SWANA	10	10	10	10	10
95	SWANA - Managing Landfill Gas at MSW Landfills [1997] Onsite Delivery	SWANA	5	5			
30	SWANA - Manager of Landfill Operations	SWANA	16	16			4
160	SWANA - Manager of Landfill Operations [MOLO®]	UF TREEO Center/SWANA - FL	16	16	8	8	
000	SWANA - Manager of Landfill Operations [MOLO®] Exam Only	SWANA/ SWANA - FL	0				
243	SWANA - Managing Composting Programs	SWANA	10	10			
251	SWANA - Managing MSW Collection Systems	SWANA	8		8	8	
246	SWANA - Managing MSW and Recyclables Collection Efficiency Workshop	SWANA	8	8	4	4	
234	SWANA - Managing MSW Recycling Systems	SWANA / SWANA - FL	7	7	7	7	
001	SWANA - Managing MSW Recycling Systems Exam Only	SWANA/ SWANA - FL	0				

C uing Education

No.	COURSE TITLE	PROVIDED BY	I, II, III	C&D	Transfer	MRF	Spotter
222	SWANA - Managing Transfer Station Systems	SWANA			8	8	
247	SWANA - Outsourcing Decisions and Contracting Strategies: Risk and Rewards	SWANA	8	8	4	4	
178	SWANA - Paying for your MSW Management Systems-Revenue Generation & Cost Accounting [10/24/00] [10/14/01]	SWANA	7				
174	SWANA - Principles of Managing Integrated Municipal Solid Waste Management Systems	SWANA	7				
45	SWANA - Principles of Managing IMSWM Systems [Certified Municipal Solid Waste Manager I]	SWANA	24				
132	SWANA - Training Sanitary Landfill Operating Personnel	SWANA	5				
216	SWANA - Transfer Station Design & Operations [course taken after 1/1/2002]	SWANA			8	8	4
42	SWANA - Transfer Station Design & Operations [course taken prior to 1/1/2002]	SWANA	16		16		
191	SWANA - Waste Con 2000 [10/23-26/00]	SWANA	13		13		
221	SWANA - Waste Con 2001 [10/15-18/01]	SWANA	8	2			
254	SWANA - Waste Con 2002 [10/15-18/02	SWANA	6	6	6	6	
259	SWANA - Waste Reduction, Recycling and Composting 14th Annual Symposium [2/24-3/1/2003]	SWANA	7	7	15	15	
9	SWANA - Waste Screening at MSW Mgmt Facilities [On-site Delivery]	SWANA	10	10	10	10	10
141	SWANA-Florida 1999 Summer Conference [8/3-5/99]	SWANA - FL	4				
162	SWANA-Florida 2000 Spring Tri-State Conference [4/3-5/00]	SWANA - FL	3				
73	SWANA-Florida 2000 Summer Conference [8/10-11/00]	SWANA - FL	6	6			
189	SWANA-Florida 2001 Spring Conference [3/29-31/01]	SWANA - FL	3	3			
207	SWANA-Florida 2001Summer Conference	SWANA - FL	5	5	5	5	1
220	SWANA-Florida 2002 Spring Tri-State Conference [4/7-10/02]	SWANA - FL	6	6	6	6	
235	SWANA-Florida 2002 Summer Conference [7/24-26/02]	SWANA - FL	4	4	2	1	
255	SWANA-Florida 2003 Spring Conference [4/7-12/03]	SWANA - FL	6	6	5	5	3
116	The Complete Ground-Water Monitoring Course	Nielson Environmental Field School, Inc.	16	16			
241	The Old Landfill Seminar	UF TREEO Center / SCS Engineers	5	5			
187	Traffic and Equipment Safety at Landfills	Kohl Consulting, Inc.	2	2			2
13	Train-The-Trainer for Environmental Occupations (Management Credit ONLY)	UF TREEO Center	7				
121	Training for Personnel at Construction & Demolition Materials Recovery Facilities	Kohl Consulting, Inc.	8			8	
147	Training for Spotters at Landfills, Construction & Demolition Sites and Transfer Stations	JEA, Inc. / UF TREEO Center	8	8	8	8	8
148	Two-Hour Landfill Spotter Refresher Training Online	JEA, Inc.	2	2	2	2	2
112	US DOT Hazardous Material / Waste Transportation	UF TREEO Center	6	6	6	6	
23	Utility Management Certification: Financial Management [No longer offered]	UF TREEO Center	7				
24	Utility Management Certification: Management & Supervision [No longer offered]	UF TREEO Center	7				
25	Utility Management Certification: Personnel Management [No longer offered]	UF TREEO Center	7				
126	Waste Acceptability for Spotters, Equipment Operators and Scale House Personnel	Kohl Consulting, Inc.	2	2	2	2	2
210	Waste Control and Spotter Safety Awareness	Kohl Consulting, Inc.	2	2	2	2	2
31	Waste Management of North America (Landfill University) (no longer offered)	Landfill University	20				
36	Waste Screening & Identification For Landfill Operators and Spotters	UF TREEO Center / SCS Engineers	8	8	8	8	8
256	Waste Screening & Identification For Landfill Operators and Spotters Refresher	Citrus County – Hazardous Waste Section	4	4	4	4	4

Continuing Education

No.	COURSE TITLE	PROVIDED BY	I, II, III	C&D	Transfer	MRF	Spotter
122	Waste Screening and Operation Orientation for Transfer Station Personnel	Kohl Consulting, Inc.	8		8		
51	Waste Screening at Municipal Solid Waste [5/23/94]	SWANA - FL	6				
164	Waste Tech 2000 [3/5-8/00]	Waste Tech	7				
185	Weighmaster Orientation and Waste Screening Review	Kohl Consulting, Inc.	2	2	2	2	2
73	Wet Weather Operations	Kohl Consulting, Inc.	4	4			
65	What Can I Accept & How Do I Keep It From Blowing Around	Kohl Consulting, Inc.	2				
64	When it Rains, It Pours (And We Stay Open)	Kohl Consulting, Inc	2	2			
279	Wildlife and Wetland Training for Solid Waste Facilities	UF TREEO Center	8	8			
240	WMI Odor School [5/29/02]	WMI / St. Croix Sensory, Inc.	7	7	7	7	7

UNIVERSITY OF FLORIDA

TREEO CENTER

Center for Training, Research and Education for Environmental Occupations

certifies that

Jerry Hutto

attended

Manager of Landfill Operations [MOLO®]

September 10-13, 2002
and is awarded this

Certificate of Attendance

Date issued: **09/13/02**
CEU's : **3.0**

William T. Engel, Jr., Ph.D.
Director

UNIVERSITY OF FLORIDA

TREEO CENTER

Center for Training, Research and Education for Environmental Occupations

certifies that

Jerry Hutto

attended

Spotter Training for Solid Waste Facilities

June 1, 2005

and is awarded this

Certificate of Attendance

Date issued: **06/01/2005**
CEUs: **0.8**
FBPE PDHs (EXP00074): **8.0**
Solid Waste I II III/C&D/TS/MRF/Spotter: **8.0**

William T. Engel, Jr., Ph.D.
Director

University of Florida TREEO Center • 3900 SW 63rd Boulevard • Gainesville, FL 32608-3800 • 352/392-9570 • www.treeo.ufl.edu

UNIVERSITY OF FLORIDA

TREEO CENTER

Center for Training, Research and Education for Environmental Occupations

Moises Serrano

has attended

Waste Screening and Identification for Landfill Operators and Spotters

October 8, 2002

Certificate of Attendance

Date issued: **10/08/02**

CEU's : **.8**

William T. Engel, Jr., Ph.D.
Director

University of Florida TREEO Center • 3900 SW 63rd Boulevard • Gainesville, FL 32608-3800

UNIVERSITY OF FLORIDA

TREEO CENTER

Center for Training, Research and Education for Environmental Occupations

certifies that

Teresa Carver

has attended

24-Hour Initial Training Course for Landfill Operators (Class I, II, III and C&D Sites)

July 13-15, 2005

and is awarded this

Certificate of Attendance

Date Issued: **July 15, 2005**
CEU: **2.4**
FBPE PDH (EXP00074): **24.0**
Solid Waste I II III/C&D: **16.0**
SWANA CEU: **20.0**

Passed Exam with 70% or Higher Proficiency

William T. Engel, Jr., Ph.D.
Director

University of Florida TREEO Center • 3900 SW 63rd Boulevard • Gainesville, FL 32608-3800 • 352/392-9570 • www.treeo.ufl.edu

Florida DEP Solid Waste Management Facility Operator Transcript

Certificate: **Spotter / Waste Screener**
Track: **Spotter**

Initial Date: **10/08/02**
Expiration Date: **10/07/05**

Status: **Current**

Wingo , Stephen
RRO
Hardee County Solid Waste
865 Airport Rd
Wauchula, FL 33873
USA

Phone: (863) 773-5089
Fax: (863) 773-3907
Email: teresa.carver@hardeecounty.net

Time Period: **10/08/02 - 10/07/05**

Course #	Course Completed	Course Provided By	Completion Date	Hours
36	Waste Screening and Identification for Landfill Operators and Spotters	University of Florida - TREEO	10/08/02	Initial

Total hours toward Continuing Education: 0

Continuing Education (CE) Minimum 3 Year Requirement:
I,II,III/C&D-16 hours; TS/MRF-8 hours; Spotter-4 hours
Expired: If you have exceeded the 3 year training period without completing the minimum number of CE, you must start over by taking an approved initial course and pass exam.

Initial hours are not counted toward continuing education.
An Initial course can be taken as a CE course only if it was not taken as the operator's or spotter's initial training.
No CE credit will be given for the same course taken within the same 3-year period.

If you have any questions, please contact djenkins@treeo.ufl.edu or jtouchton@treeo.ufl.edu or call 352.392.9570 extensions 227 or 212.

Last Updated: 12/6/2004
Date Printed: Thursday, September 01, 2005

APPENDIX B

MRF EQUIPMENT

APPENDIX B-1

BALER EQUIPMENT

APPENDIX B-1

BALER EQUIPMENT

FORWARD

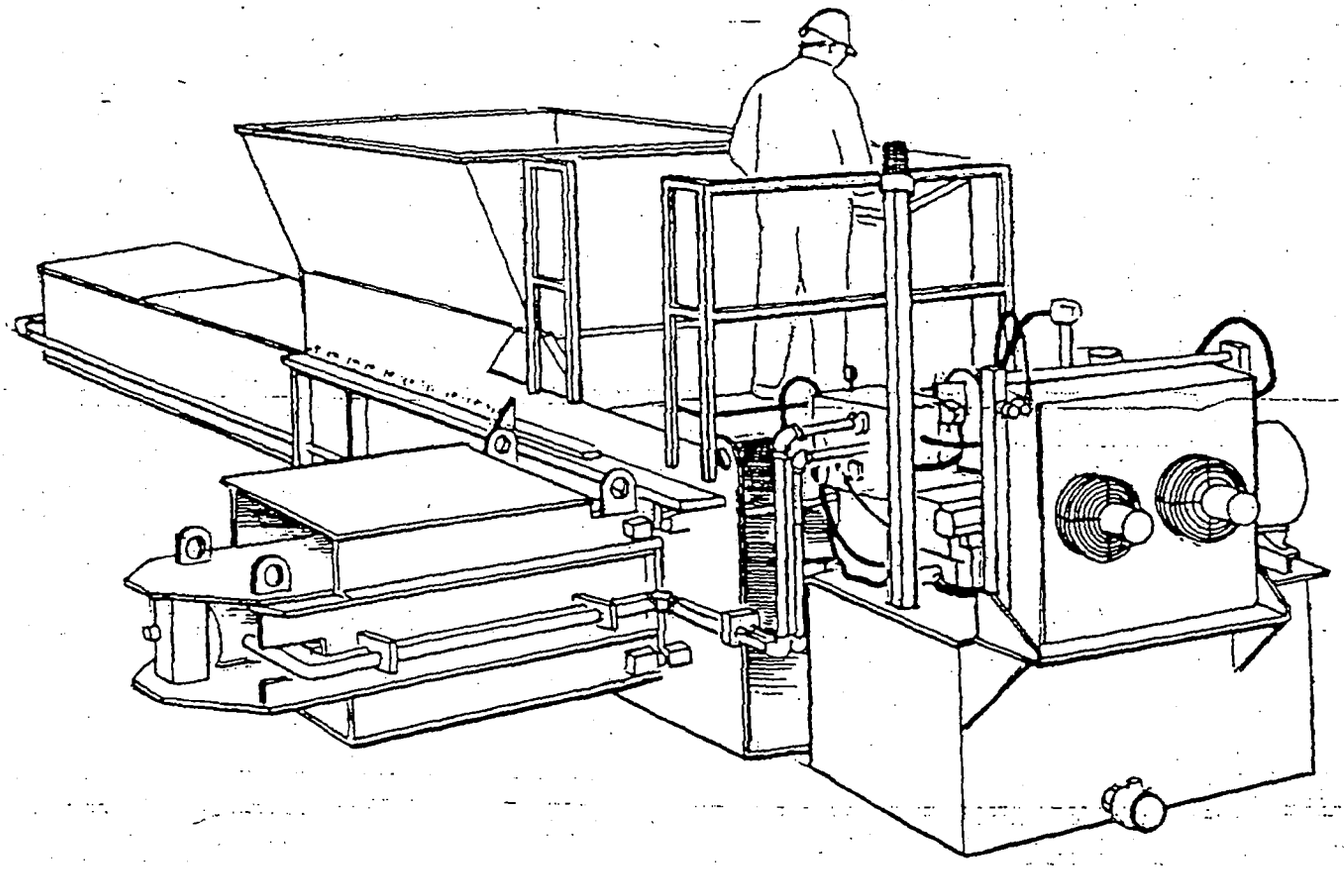
This manual was prepared to enhance utilization of Harris Badger Series Balers. The intention is to provide clear, easy-to-use guidelines for the safe operation of the machine.

In order for this manual to be effective, the operator must ready and understand all of the information. Extra attention must be given to the safety precautions before attempting to operate or service the baler.

Each Harris baler is pre-assembled and factory-tested to ensure it operates and performs to its design standards.

If the customer or operator should encounter any problems with the baler, or if any questions arise regarding the baler's operation or capabilities, please contact HARRIS WASTE MANAGEMENT GROUP, Inc. Service Department at 1-800-447-3526.

Using non-standard parts may adversely affect the operation, performance and safety of your Harris machine. To protect your investment and assure safe operation, insist on genuine Harris replacement parts and components for your Harris equipment.



9/25/01

HARRIS BALER SPECIFICATION

BADGER L 125S-4-11/8

I. Dimensions:

A. Bale Chamber:	29" high x 43" wide x 57" deep
B. Charge Box:	29" high x 43" wide x 155" long
C. Overall Length:	355""
D. Box Opening:	43" x 85"
E. Standard Hopper:	
1. Hopper Opening (Top):	65" wide x 94" long
2. Hopper Height:	92"
3. Max. Machine Height:	106"
4. Max. Machine Width:	Without extended side ram 161"
	With extended side ram 185"
F. Approximate Weight W/Oil:	23.5 tons w/out door, 26 tons w/combo door
G. Approx. Exp. Bale Size:	31" x 46" x 61"
H. Approx Bale Volume:	50 cu/ft.

II. Performance Ratings - Solid Waste: Input Density: 12.0-15.0 lbs./cu.ft.

A. Density:	38 - 48 lbs./cu.ft.
B. Bale Weight:	1850 - 2450 lbs.
C. Tons/Hour w/o door:	20 - 40
D. Tons/Hour with door:	19 - 35

III. Hydraulics: 3500 p.s.i. system operating pressure.

A. Main Cylinder:	11" bore 166 tons force, 269 p.s.i. ram face pressure. 60% ram penetration.
B. Eject Cylinder:	8" bore secured to 88 tons force 110 p.s.i. ram face pressure
C. Hydraulic Pumps:	Main pumps = 4 Main flow = 378 GPM Circulation = 107 GPM Tier = 12 GPM Total Flow = 497 GPM
D. Hydraulic Valving:	State-of-the-art cartridge and spool valves controlling all hydraulic functions
E. Reservoir Capacity:	700 gallons.
F. Filter:	10 micron.
G. Cooler:	Oil to air - thermostatically controlled.

H. Heaters: (1) 2200 watt thermostatically controlled oil heater.

IV. Power Unit:

A. Motors: Main - (1) 125HP, 460/3/60, 1750 RPM. Open, drip proof.
Cooler Fan - (2) 1 HP 460/3/60, 1140 RPM. TEAO
Oil. Circ./Tier – 20 HP, 460/3/60

B. Starters: Across-the-line motor starters with overload protection. Reduced voltage starting is available as an option.

C. Location: Standard power unit location is at the end of the bale compression chamber. Optional power unit locations available at additional cost.

V. Controls:

A. Type: Solid-state programmable controller with operator console.

B. Functions: Automatic or manual baling cycles. Push buttons and joy stick, mounted on operator console. System pressure gauge. Self diagnostics with visual display. Multiple baling and strapping modes.

C. Location: Control console mounted over compression chamber.

VI. Electrical Enclosures: Standard enclosures are NEMA 12 and are NOT suitable for outdoor operation.

VII. Construction:

A. Main Frame: The main frame and compression chamber are constructed of heavy steel plate and reinforcing ribs. Critical components are machined to insure proper fit. Wear surfaces are covered with replaceable hardened alloy steel. Back wall is reinforced solid steel plate. Floor ribs are standard.

B. Platens: Both the gathering and eject platens are heavy steel weldments, machined as necessary to achieve tolerances.

C. Piping: ASTM A-106 Schedule 160 and 80. Joints are welded with bolted, O-ring sealed flange connections. Suitable pipe clamps and supports are provided for all pipe runs.

D. Fixed Knife: Fitted with Harris' unique **"Smart-knife" adjusting system. No shims are required.

E. Liners: Harris' quick-change floor liner and main platen shoe replacement system **"Sky-jacker" is standard and includes segmented floor liners for easy handling and replacement. Main platen shoe and floor liner can be replaced without removal of main platen.

VIII. Tying Unit: U. S. Model 342 or equivalent.

IX. Testing: Machine will be assembled and tested prior to shipment.

X. Startup Service: This proposal includes the services of a qualified installation specialist for two (2) eight hour working days. He will place the baler in operation and instruct your operator in recommended operating and maintenance procedures. (Transportation and sustenance outside of continental U.S. is for the Purchaser's account.)

XI. Purchaser to provide:
(Unless stated otherwise in Proposal or Contract.)

A. Approximately 700 gallons of hydraulic oil.
B. Electric power to baler motor control center.
C. Foundation and anchoring plan acceptable to Harris, conveyors, conveyor pits, and all required site preparation.
D. Personnel, equipment and tools to unload, assemble and install equipment. Spreader bars are required for lifting equipment.
E. Wire for automatic tier.
F. Adequate and appropriate materials for processing during the Start-up/Training period.
G. Conveyor pit and apron closures, guards and access.
H. Tools and spare parts for performing maintenance, adjustments and troubleshooting.

XII. Limited Warranty: All Harris Manufactured Products.

This machine is covered under Harris Warranty (HWMG, Inc. 990101W-Std) which is attached.

XIII. Options: Harris offers many options including:

- -- Installation or installation assistance
- -- Conveyors
- -- Hopper extension
- -- Bale run out table
- -- Climate controlled operator's cab
- -- Oversize bale release – partial door
- -- Combination bale release and separation door — included
- ■ Plus many more – consult your Harris Representative

XIV. Acceptable Materials: This baler is intended to process the following materials; any materials other than these could severely damage the machine and will void the warranty.

A. Empty aluminum cans.
B. Empty tin cans, buckets or barrels, 55 gallons or less.
C. High grade paper if segregated and "delumped."
D. Corrugated paper.
E. Solid waste (excluding large pieces of masonry, steel or other such non compressibles.) Ferrous metals greater than 1/8" thickness or 3/8" in diameter along with masonry and concrete greater than 2 square inches in cross section or 12" in length are not acceptable materials for processing. Glass, masonry and other such abrasive NON compressibles can cause excessive wear or damage and can interfere with baler functions such as shearing or the operation of the door. Therefore, the content of this type material should be minimized.
F. Drywall.
G. Wooden pallets.
H. Empty PET bottles.
I. "White goods" without motors and transmissions.
J. Newsprint if segregated and "delumped."
K. Aluminum siding and aluminum cable less than 1" diameter.
L. Aluminum extrusions less than 1/2".
M. Copper less than 1/2" thick.
N. Radiators (automobile only made of aluminum or brass).
O. Steel cable less than 3/8" in diameter.
P. Non-magnetic ferrous material with a thickness no greater than 1/8".
Q. Rags.
R. Ferrous material with a tensile strength of less than 50,000 lbs/sq. inch, a thickness of no more than 1/8" and a cross section of no more than 1/4" sq. inches.

NOTE: 1. Some bridging may occur in the hopper depending upon the material being processed and how the material is being presented to the hopper. Wet solid waste may tend to extrude the plug bale if the baler has no baling door. Some materials may require pre-conditioning, consult your Harris representative.

2. The knife edges and the vertical blade clearance must be maintained within the limits established by the Harris knife blade gauge furnished with the machine; however, the clearance must, in any event, be less than the thickness of the thinnest metallic material being processed.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

The provisions of this specification shall apply unless specifically provided for otherwise in your Proposal or Contract.

APPENDIX B-2

CONVEYOR BELTS

4101 CRUSHER DRIVE
ST. CHARLES, MISSOURI 63304-8695
PHONE: 636-441-8600
FAX: 636-441-8611
Internet Address: www.hustler-conveyor.com
E-mail Address: hustler@hustler-conveyor.com

OPERATION & MAINTENANCE MANUAL

PREPARED FOR

HARDEE COUNTY LANDFILL
WAUCHULA, FL
(CRIGLER ENTERPRISES, INC.)

CONVEYOR LIST

Conveyor	*Description*	*Serial No.*
C-01	60" WIDE X 38'-6" LONG STEEL BELT CONVEYOR – 6" P, ¼" PL (BELT ATTATCHED), W/ CHUTE	B6470
C-02	60" WIDE X 21'-0" LONG FLAT BELT SLIDER CONVEYOR (REVERSIBLE)	B6471

INTENDED USE

MATERIAL: *MSW*

DENSITY: 15 PCF

TPH: 18-33 TPH

Crigler Enterprises, Inc.

2121 NORTH BAYSHORE DRIVE
#901
MIAMI, FL 33137
PHONE: 305 572 9146
FAX: 305 572 1309

Distributors For:

Harris

Hustler CONVEYOR COMPANY

SENNEBOGEN

May 3, 2002

Ms. Janice Williamson
Hardy County Landfill
685 Airport Road
Wauchula, FL 33873
TEL: (863) 773-5089
FAX: (863) 773-3907

Dear Janice:

As requested, please find enclosed pricing and specifications the following conveyor system. The conveyors quoted are being quoted as per the dimensions you provided earlier.

Item #1: 1) 60" wide x 38'6" long ¼" plate 9" pitch Steel Belt Sort Line Feed Conveyor

DIMENSIONS:

Belt Width:	60"
Belt Length:	38'6" measured along belt path
Belt Path Style:	"S" shaped with a lower horizontal loading area of 11' (top of belt to be 12" below grade), an incline section of 38'6" at 35 degrees.

BELTING: 1/4" plate 9" pitch Piano Hinge Steel Belt constructed as follows:

Belt Pans:	1/4" thick, 60" wide precision die formed pans with fully closed loops
Reinforcements:	Channel reinforcements welded to the underside across the width of every other hinge link. This increases the strength of belt pan as well as limits deflection of belt under severe impact.
Side Wings:	4" high precision die formed interlocking off-set wings, 1/4" thick, wings plug welded to pans
Chain:	2" wide x 1/4" thick (2) strands
Side Bars:	Precision die punched HR 1044 high carbon steel
Bushings:	Solid, 3/4" I.D. x 1-1/8" O.D. x 2-1/16" hardened RC50-60 press fit into inner side bars
Hinge Sleeve:	Steel tubing liner over pin through belt hinge joint to embrace strength and extend life
Pins:	CR1045 steel, 3/4" diameter, pin ends are milled flat to lock into outer side bars
Rollers:	Single Flange: 3" diameter x 1-1/2" face Sintered Steel Wheels
Tracks:	25# ASCE rail designed to prevent material buildup and provide a smooth surface for belt and rollers to travel
Cleats:	Angle type, 4" high x 3/8" thick welded to belt pans on 6" centers
Belt Sprockets:	6 tooth, 9" pitch, 18" pitch diameter, flame cut with hardened teeth at tail and head ends of conveyor

Tracks will last much longer than side rails

SHAFTING: Both head and tail shafts fabricated out of C1045 steel. Shafts are

	mounted in heavy duty ball bearing pillow blocks with cast iron housings.
DRIVE:	7.5 HP 1800 RPM electric motor 230/460 volts, 3 phase, 60 Hertz, TEFC continuous duty motor with a 1.15 s.f. and roller chain from reducer to sprocket of head shaft. This conveyor also supplied with a shear pin sprocket hub assembly for overload protection and comes with an adjustable steel base for drive assembly.
SPEED:	Constant 30 FPM
SPECIAL FEATURES:	Conveyor is furnished with back stop to prevent conveyor belt from roll back under full load. Electric oiler(s), gravity fed, 1-gallon capacity. Also included and shipped loose for field mounting are (2) push button "E" stops and disconnect switch.
FRAME:	Heavy duty open frame construction from structural shapes and formed plate. Frame is braced and reinforced for rigidity in all planes and is completely shop fitted and welded.
Side & Belly Guards:	Provided in areas of personal access up to 8' above grade
Side Skirts:	12" high on lower horizontal and 36" high on incline and upper horizontal
Load Bars:	To limit deflection of belt under impact
PAINT:	Finish coat Hustler Blue

Strongest drive in the industry

The total price for the equipment referenced above including motor drive and all necessary guards is $38,600.00.

Option #1: Item #1 above will fit in the existing 42" deep pit however there will be little room for cleaning under the conveyor because our conveyor frame is also 42". However, a 6" pitch steel belt frame is only 36" and this would allow for some flexibility during install as well as make cleaning and maintenance more accessible. Therefore, if we were to supply item #1 above as a ¼" plate **6" pitch** steel belt conveyor the total add-on for this would be $1,150.00.

Item #2: 1) 60" wide x 39' long Flat Belt Sorting Conveyor.

Makes the Conveyor 6" & can be put into pit w/o putting whole frame into the water

DIMENSIONS:	
Belt Width:	60"
Belt Length:	39' measured along belt path
Elevation:	Horizontal
CONSTRUCTION:	All steel custom unit fabrication
FRAME:	
Sub-Frame:	Channel fabricated from 1/4" plate with top pan fabricated out of 1/4" plate
Height of Sides:	6" high belly rest sides

This conveyor to be supplied with heavy duty gussets for added strength and cross bracing inside of conveyor. Extra heavy duty tail plates for tail shaft and bearings and extra heavy duty head plates for head shaft and bearings.

PULLEYS:	
Head Pulley:	to be supplied with rubber lagging and XT hubs and bushings
Head Shaft:	fabricated out of C1045 steel
Tail Pulley:	to be Self-Cleaning Wing Style
Tail Shaft:	fabricated out of C1045 steel
BELTING:	PVC200 with 1-1/2" cleats on 4' centers
DRIVE:	7-1/2 HP 1800 RPM electric motor, 230/460 volts, 3 phase, 60 hertz, TEFC with a 1.15 s.f., gear reducer and drive guard
PAINT:	Finish coat Hustler Blue

The total price for the equipment referenced above including motor drive and all necessary guards is $24,100.00

Hustler
CONVEYOR COMPANY
4101 CRUSHER DRIVE
ST. CHARLES, MO 63304-8695
PHONE: (636) 441-8600
FAX: (636) 441-8611

FLAT BELT / TROUGH SLIDER CONVEYOR MAINTENANCE

- Before starting check the following:
  - Head and tail pulley bushing bolts
  - Belt tracking
  - Inspect gear reducer oil level (see reducer section for instructions)
- After 40hrs of operation check the following:
  - Head and tail pulley bushing bolts
  - Belt tracking
- Relubricate all bearings with #2 consistency lithium base grease, as guided by lubrication instructions provided.
- Keep drive chain and sprockets free of debris at all times.
- Keep visual check of conveyor for loose parts, damaged parts, and jamming conditions. Replace worn or damaged parts.
- Motor may be greased approximately once every 24 weeks or 1000 hours of operation.
- Periodically check belt guides for material caught between belt and guides. Clean guides so the belt runs free of any binds.
- Manually lubricate the drive chain once a week when the chain is not under load. Pour or brush on a copius amount of oil in a continuous manner. S.A.E. 30 oil is considered a good lubricant.

Item #3: 1) 60" wide x 21' long Reversing Flat Belt Slider Style Conveyor

DIMENSIONS:

Belt Width:	60"
Belt Length:	21' measured along belt path
Elevation:	Horizontal

All other specifications remain the same as item #2 above, with the exception of a 5 horsepower motor and be supplied with V-groove belting.

The total price for the equipment referenced above including motor drive and all necessary guards is $19,650.00.

All prices are F.O.B. - Our Plant - St. Charles, Missouri and are valid for 60 days.

This price does not include any State, Local or Use Taxes if applicable.

Final determination of dimensions and horsepowers is made by our Engineering Department. Any changes deemed necessary may result in a pricing adjustment.

Terms are 20% with the order, 80% prior to shipment; otherwise not later than three weeks after notification goods are ready for delivery

The approximate freight costs for shipping this equipment to job site in Tampa, FL is $1,850.00 per truck. Approximately (2) trucks will be needed to ship this equipment.

Equipment purchaser/user is responsible for determining and supplying the safety features to be furnished in order to comply with local, state and federal rules and regulations pertaining to the safety, health and welfare of the worker.

All parts and equipment manufactured by Hustler Conveyor Company are warranted for 2080 hours of operation or one year from date of shipment, whichever comes first. The sale of the equipment covered in this proposal will be subject to Hustler's Standard Terms and Conditions of Sales and Hustler's Warranty as set forth therein, all of which are incorporated on the reverse side of this proposal. All purchased parts and their warranties are passed on to the end user.

Crigler Enterprises will furnish all of the necessary misc. steel, labor to install the system, and rigging equipment necessary to complete the installation for $9,400.00.

We are looking forward to a favorable response to our proposal.

Regards,

Kenneth Roberts
305 572 9146

Reduce the price of installation by 2,000 w/o sorting Conveyor

FLAT BELT / TROUGH SLIDER CONVEYOR LOCK OUT/ TAG OUT PROCEDURE

Before any maintenance, perform the following Lock out/ Tag out of energy sources

SAMPLE LOCK OUT PROCEDURE

The following sample lock out procedure is provided as a guide for the development of a specific lock out procedure. A tag out procedure would be similar in format. Where complexity requires, a more comprehensive procedure shall be developed, documented, and implemented.

Purpose - The procedure establishes the minimum requirements for lock out of energy sources that could cause injury to personnel. All employees shall comply with the procedure.

Responsibility - The responsibility for seeing that this procedure is followed is binding upon all employees. All employees shall be instructed in the safety significance of the lock out procedure. Each new or transferred affected employee shall be instructed in the purpose and use of the lock out procedure.

Preparation for Lock Out - Employees authorized to perform lock out shall be certain as to which switch, valve, or other energy isolating devices apply to the equipment being locked out. More than one energy source, (electrical, mechanical, or others), may be involved. Any questionable identification of sources shall be cleared by the employees with their supervisors. Before lock out commences, job authorization should be obtained.

STEEL BELT CONVEYOR
LOCK OUT/ TAG OUT PROCEDURE

Before any maintenance, perform the following Lock out/ Tag out of energy sources

SAMPLE LOCK OUT PROCEDURE

The following sample lock out procedure is provided as a guide for the development of a specific lock out procedure. A tag out procedure would be similar in format. Where complexity requires, a more comprehensive procedure shall be developed, documented, and implemented.

Purpose - The procedure establishes the minimum requirements for lock out of energy sources that could cause injury to personnel. All employees shall comply with the procedure.

Responsibility - The responsibility for seeing that this procedure is followed is binding upon all employees. All employees shall be instructed in the safety significance of the lock out procedure. Each new or transferred affected employee shall be instructed in the purpose and use of the lock out procedure.

Preparation for Lock Out - Employees authorized to perform lock out shall be certain as to which switch, valve, or other energy isolating devices apply to the equipment being locked out. More than one energy source, (electrical, mechanical, or others), may be involved. Any questionable identification of sources shall be cleared by the employees with their supervisors. Before lock out commences, job authorization should be obtained.

APPENDIX B-3

~~BOBCAT LOADER~~
LOADING EQUIPMENT

Guide to Lift Truck Use and Maintenance

Yale®
Industrial Trucks

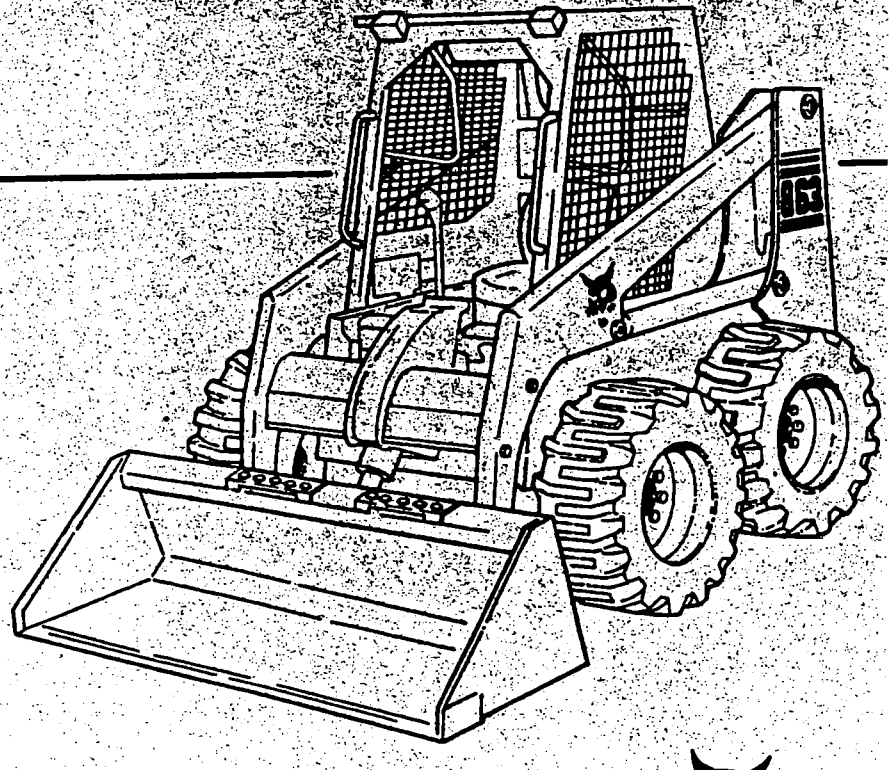
- Safety
- Training
- Standards
- Equipment
- Environment
- Maintenance
- Operation

863
863
HIGH FLOW

Operation & Maintenance Manual

S/N 514427600 & Above

863 Europe Only (S/N 514525300 & Above)
863H Europe Only (S/N 514625300 & Above)



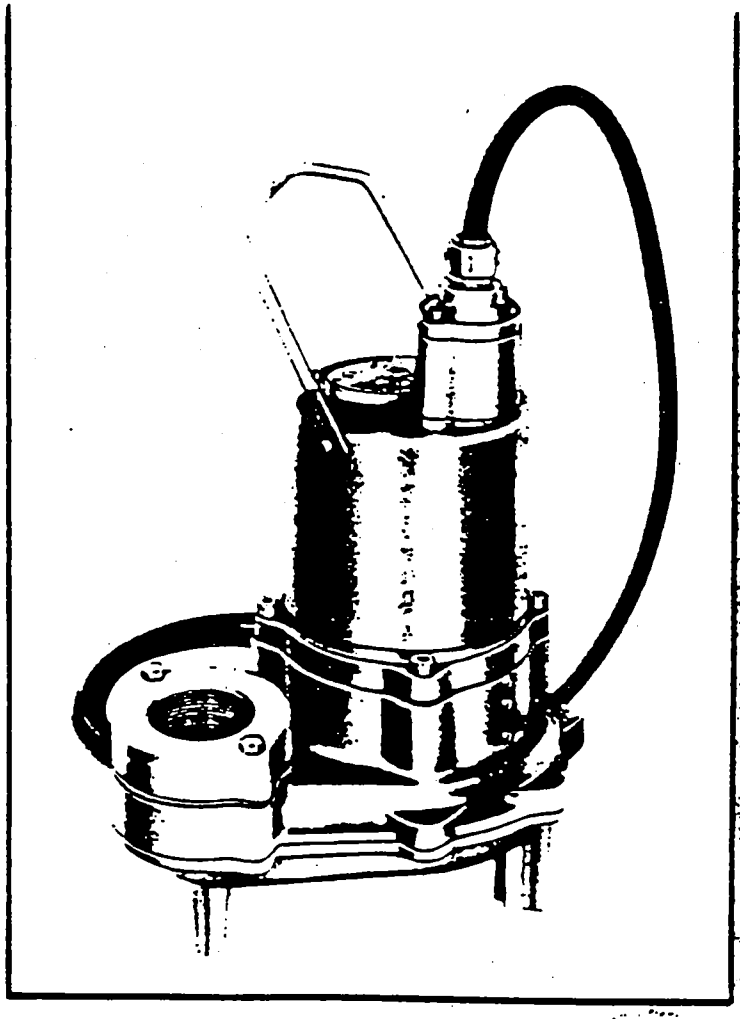
EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

MELROE
INGERSOLL-RAND

bobcat

APPENDIX B-4

SUMP PUMPS AND PRESSURE WASHERS



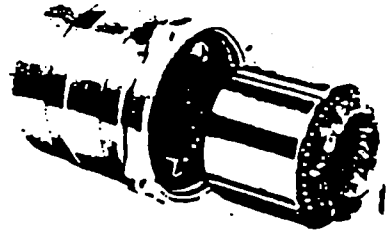
BULLETIN 420.1

S & SH Series Non-Clog, Heavy-Duty Sewage & Industrial Submersible Pumps for handling sanitary and other drainage

HYDROMATIC PUMPS
A Marley Pump Company

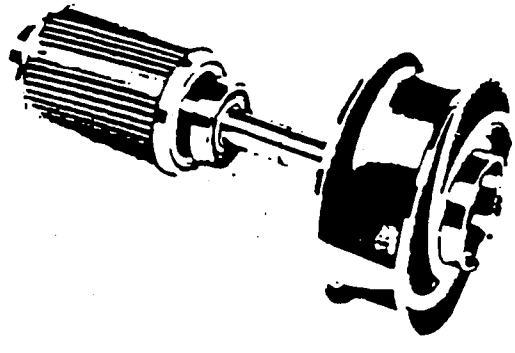
Special Construction Features:

MOTOR STATOR — Open type stator construction permits easy removal when necessary and can be rewound in the field. Winding is completely sealed against moisture and operates in clean dielectric oil that dissipates heat and lubricates motor bearings. Motor is lubricated for life — no periodic greasing operations required.



PUMP IMPELLER — Two-vane, non-clog impeller of the enclosed type with impelling vanes on both the front and rear shrouds. Balanced, cast iron design is perfect for sewage, grease, dirt and other sump materials.

SHAFT AND BEARINGS — Threaded Type 303 stainless steel shaft absorbs vibrating forces that occur when impeller passes solids; provides protection against corrosion and fatigue. Large upper and lower ball bearings rigidly support shaft and motor rotor and operate in bath of clean oil.

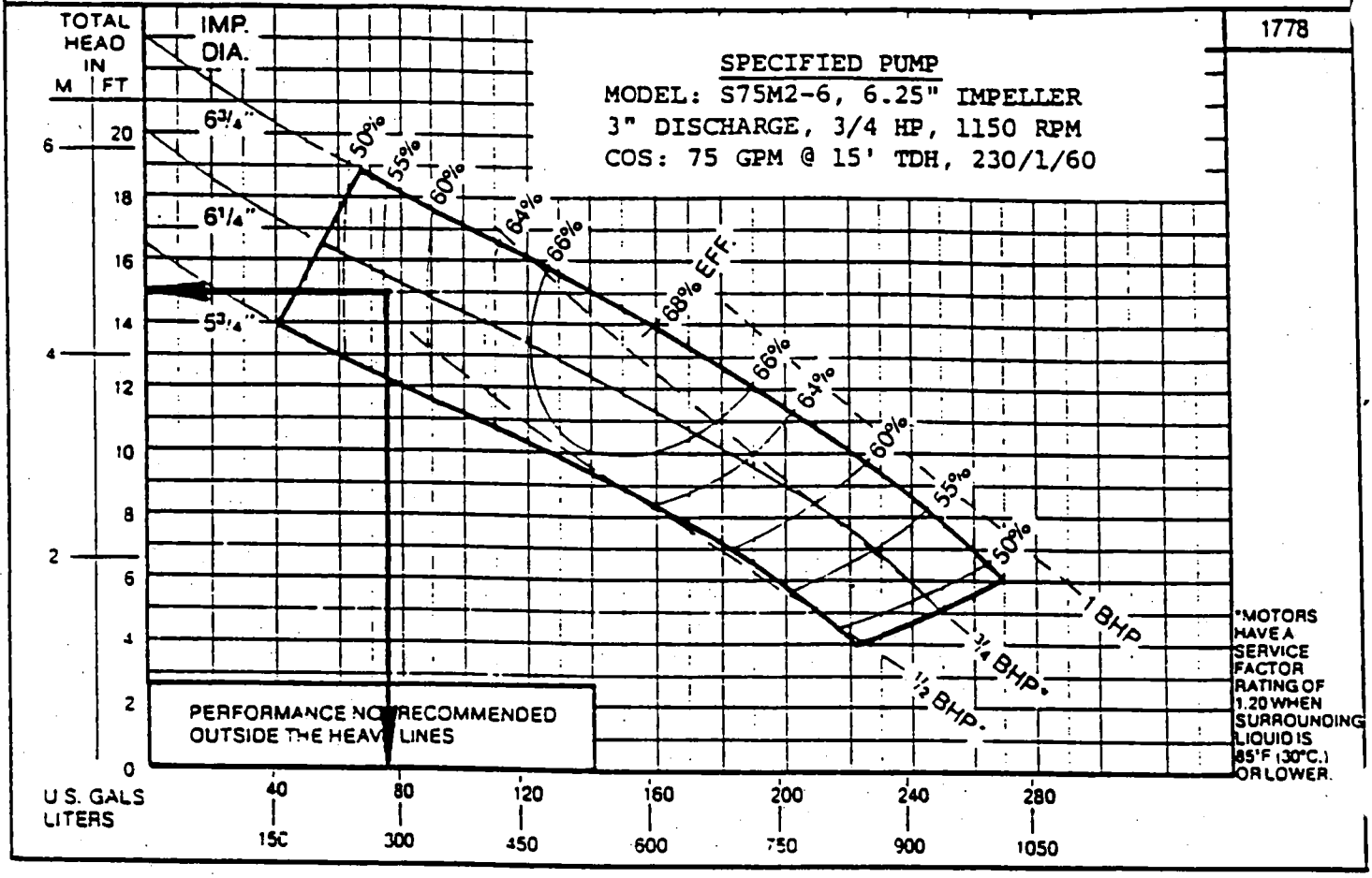


MATERIALS — Motor housing, pump castings, and impeller are high grade cast iron. All fasteners are stainless steel. Pump case has replaceable bronze wear rings.

FIELD SERVICEABLE — Pump and motor can be dismantled and repaired in the field by any competent mechanic.

MOTELS - HOSPITALS - CHURCHES - SCHOOLS - APARTMENTS

MODEL: S SERIES SUBMERSIBLE SEWAGE PUMP – MAX. SOLIDS: 2½" SPHERE – 1150 RPM



NORTH STAR

Proven Performance™

K-Bar Industries, Faribault, MN 55021

M1578111A

ITEM NUMBER: 1578181A
SERIAL NUMBER: 1203 1050
CE
MANUAL

Owner's Manual

Pressure Washer: Machine that cleans dirty surfaces with high pressure water.

⚠ WARNING

Read this manual.

Serious injury or death can result if safety instructions are not followed.

Engine is shipped without oil.

- Before starting engine, fill engine oil.
- See engine manual for engine oil requirements.

Pump is shipped with oil.

- Remove shipping plug and install vented fill cap. (Comet Pumps)
- Remove shipping tape from pump oil fill cap. (Cat Pumps)
- See pump oil cap section of this manual.

Closely inspect all components.

-If you have damaged components then: Contact the freight company that delivered the unit and file a claim.

-If you have missing components then: Contact Customer Service at 1-800-270-0810.

fm01362

Any Questions, Comments, Problems or Parts Orders

Call NorthStar Customer Service 1-800-270-0810

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

Dayton™ Submersible Sewage Ejectors

ENGLISH

ESPAÑOL

Description

Dayton submersible sewage ejectors are self-contained and recommended for use in a sump or basin. The sump or basin shall be vented in accordance with local plumbing codes. Designed to pump effluent or wastewater, nonexplosive and noncorrosive liquids, and shall **Not** be installed in locations classified as hazardous in accordance with the United States National Electrical Code (NEC), ANSI/NFPA 70. Never install the pump in a trench, ditch, or hole with a dirt bottom; the legs will sink into the dirt and the suction will become plugged.

c SA® US
CSA 108
UL 778
LR16567

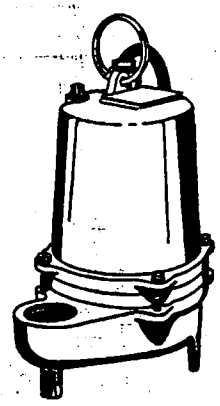


Figure 1

Specifications

TEMPERATURE
3BB87 . . . . . 77°F (25°C) Continuous
3BB88, 3BB89 . . . 104°F (40°C) Continuous
IMPELLER . . . . . 2 Vane, Open
SOILDS HANDLING . . . 2" (51mm) spherical
PAINT . . . . . Air dry enamel
SEAL . . . . . Single mechanical, oil-filled reservoir
CABLE ENTRY . . . . 20 ft. (6 M) quick disconnect cord w/plug on 120 and 240 volt, 1 phase, pressure grommet for sealing and strain relief

UPPER BEARING . . . . . Single Row, Ball Design Oil Lubrication, Radial Load
LOWER BEARING . . . . Single Row, Ball Design Oil Lubrication, Radial & Thrust Load
MOTOR . . . . . NEMA L Torque Curve, Completely Oil-Filled, Squirrel Cage Induction. Class B Insulation
SINGLE PHASE . . . . . Permanent Split Capacitor (PSC). Includes Overload Protection In Motor
FLOAT; Automatic Model Wide Angle, PVC, Mechanical, N/O, 20 ft (6 M), Cable w/Piggy-Back Plug

	Pump Material							
Model	Volute	Motor Housing	Seal Plate	Impeller	Shaft	Square Rings	Hardware	Seal
3BB87	Cast Iron	Cast Iron	Cast Iron	Cast Iron	416 SS	Buna-N	300 Series SS	Silicon Carbide/Buna-N
3BB88	Cast Iron	Cast Iron	Cast Iron	Cast Iron	416 SS	Buna-N	300 Series SS	Silicon Carbide/Buna-N
3BB89	Cast Iron	Cast Iron	Cast Iron	Cast Iron	416 SS	Buna-N	300 Series SS	Silicon Carbide/Buna-N

Model	Hp	Volt	Ph	Nema Start Code	Full Load Amps	Locked Rotor Amps	Cord Size	Cord Type	Cord O.D. inches (mm)	Winding Resistance Main--Start
3BB87	4/10	120	1	C	12.0	19	14/3	SJTOW	0.375 (9.5)	2.14 – 30.5
3BB88	1/2	120	1	A	12.0	26	14/3	SJTOW	0.375 (9.5)	1.37 – 15.2
3BB89	1/2	240	1	A	6.2	13	14/3	SJTOW	0.375 (9.5)	5.45 – 16.7

Winding Resistance ± 5%. Pump rated for operation at ± 10% voltage at motor.

Form 5S4840
Printed in U.S.A.
09701
0603/187/VCPVP
CRN003
05/03

Dayton

APPENDIX C

WASTE FACILITY CONTACT LIST

NEIGHBORING LANDFILLS TO HARDEE COUNTY

LANDFILL NAME	TYPE	COUNTY	CITY	PHONE NUMBER
Polk County North Central Landfill	Class I	Polk	Eaton Park	(863) 284-4319
Southeast County Landfill	Class I	Hillsborough	Picnic	(813) 671-7739
Sun County C&D Landfill	C&D	Hillsborough	Balm	(813) 642-9594
Central County Solid Waste Disposal Complex	Class I	Sarasota	Sarasota	(941) 861-1570
Highlands County Solid Waste Management Center	Class I / C&D	Highlands	Sebring	(863) 655-6483
Pembroke – Fort Meade Landfill	Class III	Polk	Fort Meade	(863) 285-8393
Cedar Trail Landfill	Class III	Polk	Bartow	(863) 533-8776

PRIVATE LANDFILLS THAT HARDEE COUNTY HAS WASTE DISPOSAL AGREEMENTS

LANDFILL NAME	TYPE	ADDRESS	PHONE NUMBER
OMNI – St. Cloud	Class I/C&D	1501 Omni Way St. Cloud, FL 34773	(407) 891-3720
WM – Okeechobee	Class I/C&D	10800 NE 128th Avenue Okeechobee, FL 34972	Contact Info: (813) 621-3055

RANDOM LOAD INSPECTION FORM

REPORT TYPE: ☐ INSPECTION ☐ VIOLATION ☐ LF RANDOM INSPECTION

LOCATION: _____ DATE: _____ TIME: _____

DELIVERING COMPANY: _____

DRIVER NAME: _____ VEHICLE #: _____

VEHICLE TYPE: ☐ FEL ☐ RO ☐ RL ☐ SL ☐ SEMI ☐ DUMP

OTHER: _____

CUSTOMER/GENERATOR: _____ TRANSACTION #: _____

TYPE OF WASTE:

☐ YARD WASTE	☐ INDUSTRIAL	☐ AUTO PARTS	☐ BY PASS WASTE
☐ C&D	☐ INSULATION	☐ ASH RESIDUE	☐ ANIMAL WASTE
☐ FURNITURE	☐ AG WASTE	☐ ROOFING	☐ SPECIAL WASTE
☐ CARDBOARD	☐ FIELD PLASTICS	☐ METALS	☐ BIOMEDICAL WASTE
☐ COMMERCIAL WASTE		☐ HOUSEHOLD GARBAGE	

☐ OTHER: _____

TYPE OF VIOLATION: ☐ FACILITY ☐ LOAD ☐ SAFETY ☐ CONTAINER

DETAILS: _____

DRIVERS COMMENTS: _____

RESULTS: ☐ ACCEPTED ☐ REJECTED ☐ RELOAD ☐ ALREADY IN LF

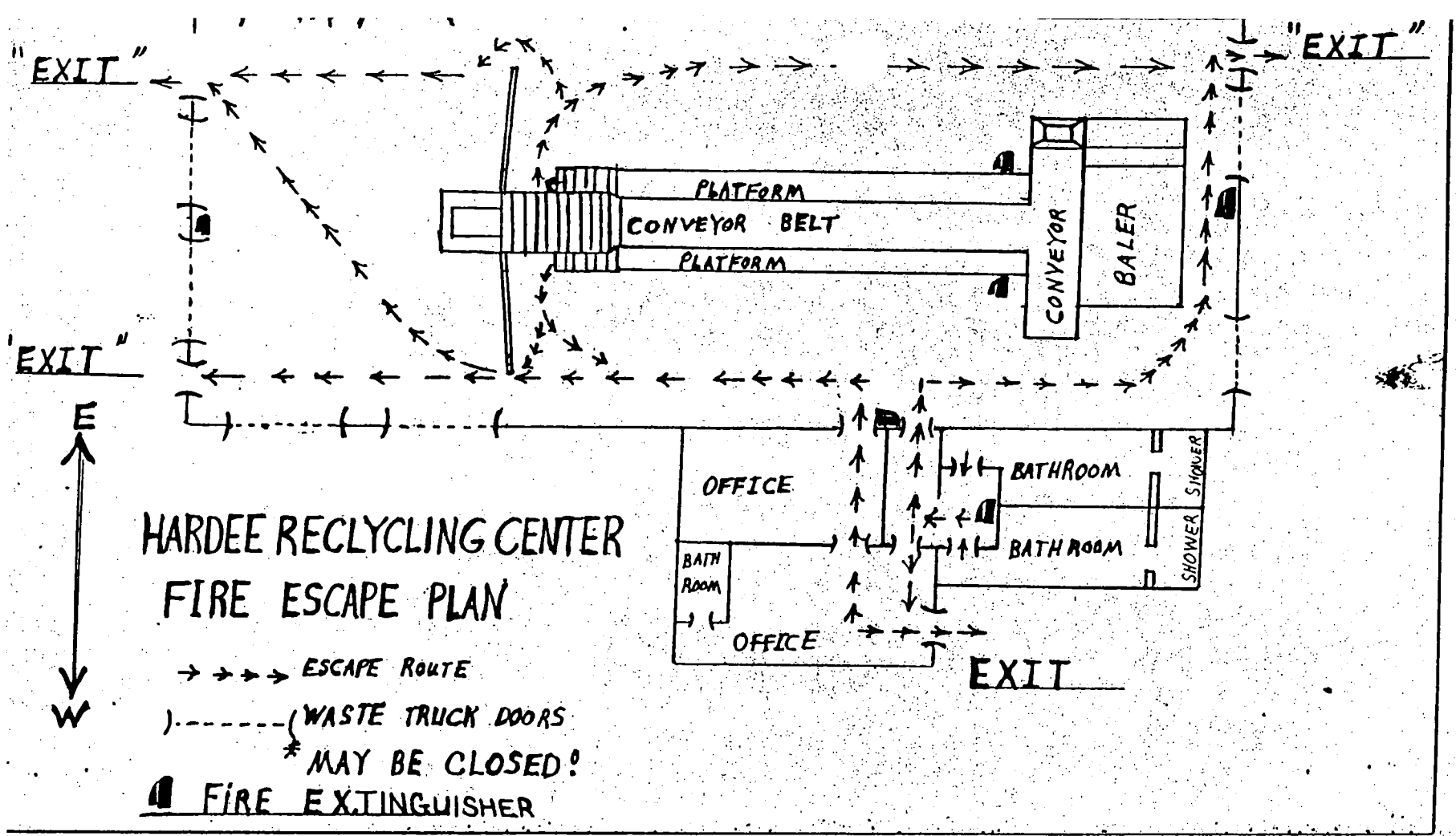
INSPECTOR'S SIGNATURE: _____

ADDITIONAL COMMENTS: _____

FEL : Front-End Loader
RO: Roll-Off Container
RL: Rear Loader
SL: Side Loader
SEMI: Semi Trailer
DUMP: Dump Truck

APPENDIX E

FIRE CONTINGENCY OPERATIONS PLAN


"EXIT"
"EXIT"
"EXIT"
PLATFORM
CONVEYOR BELT
PLATFORM
CONVEYOR
BALER
OFFICE
BATHROOM
SHOWER
BATH ROOM
BATH ROOM
OFFICE
EXIT
E
W
HARDEE RECLYCLING CENTER
FIRE ESCAPE PLAN
ESCAPE ROUTE
WASTE TRUCK DOORS
* MAY BE CLOSED!
FIRE EXTINGUISHER

APPENDIX F

WASTE CLASSIFICATION, STORAGE METHOD, AND STORAGE TIME TABLES

Waste Characterization Criteria/Definitions

Non-Processable Material[1]	Storage Location	Maximum Storage Time	Maximum Storage Quantity	Disposal Method/Alternative Option
Toilets	Not stored at MRF transported to working face	NA	NA	Landfill
Pallets	Stored south of MRF	3-6 months	100 pallets	Recycled by pallet recycler
Concrete	Stored southwest of landfill, used for roads	NA	NA	Road material
White Goods	Stored in white goods area	3-6 months		Metal recycler
Scrap Metal	Stored in scrap metal storage area	3-6 months	8 Tons	Metal recycler
Tires	Stored in waste tire storage area			Waste tire vendor
Used Oil	Stored in 500 gallon tanks at HHWCC	3-6 months	500 gallons	Used oil recycler
Car Batteries	Stored on pallets at HHWCC	3-6 months	100	Battery Recycler
Electronics	Stored in closed top roll-off east of the MRF	2-months	10 cubic yards	Electronic Recycler
Soils	Taken directly to working face with acceptable TCLP analysis	NA	NA	Used at landfill with acceptable TCLP analysis
Household Hazardous Waste	Stored at HHWCC	4 months	undeterminable	If pulled from MRF taken to HHWCC, if citizen drops off they are instructed to wait until scheduled collection
Propane tanks	Without nozzle-Stored in scrap metal area With nozzle- HHWCC	3-6 months/4 months with nozzles	NA	Without nozzle-Stored in scrap metal area With nozzle- HHWCC
Asbestos	Doubled bagged and taken to asbestos disposal location in landfill must notify landfill prior to delivery	NA	NA	Doubled bagged and taken to asbestos disposal location in landfill must notify landfill prior to delivery
Fluorescent Light Bulbs	Stored in barrels at the MRF when barrels are full they are stored at HHWCC	4 months	NA	HHW contractor
Yard Waste	Yard waste site north of the MRF	6 months	NA	Stored in yard waste area
Animal Carcasses	Transported to working face	NA	NA	Transported to working face
Construction and Demolition Debris	Transported to working face or stored in 20 cubic yard roll-offs west of the MRF and transported to Ft Meade landfill			Transported to working face or stored in 20 cubic yard roll-offs west of the MRF and transported to Ft Meade landfill
Sharps	Animal Services	6 months	NA	Transported to Fire Department
Recycled Material				
Glass	Stored in 25 yd rolloff	2-4 months	25 cubic yards	Stored in 25 yd rolloff; when bin is full it is recycled
Newspaper	Citizens drop off newspapers stored in trailer east of the MRF recycled when full	1-3 months	19.5 cubic yards	Citizens drop off newspapers stored in trailer east of the MRF; recycled when full
Aluminum	Aluminum is baled and recycled	4-6 months	8 tons	Aluminum is baled and recycled
Cardboard-Loose	Stored to the east of the MRF then baled	1 week	900 cubic yards	Stored to the east of the MRF then baled
Cardboard-Baled	Stored to the south of the MRF then baled	1-3 months	30 tons	Stored to the east of the MRF then baled
Unacceptable Waste[2]				
Biohazardous Waste	NA	NA	NA	Referred to Health Department
Septic Sludges	NA	NA	NA	Referred to tank company
Commercial Hazardous Waste	NA	NA	NA	Referred to County's HHW contractor
55 gallon closed top drums	NA	NA	NA	Referred to County's HHW contractor
Soil- with failing TCLP analysis	NA	NA	NA	Referred to County's HHW contractor
Liquids	NA	NA	NA	Referred to County's HHW contractor or other applicable vendor
Paint thinners	NA	NA	NA	Referred to County's HHW contractor
PCP containing material	NA	NA	NA	Referred to County's HHW contractor

NOTES=

1= Material not processed in the MRF

2= Material not accepted at the Hardee County Landfill

HHW= Household Hazardous Waste

TCLP=Toxicity Characteristic Leaching Procedure

NA= Not applicable

Recycled Material Storage Time/Quantity Chart

Material	Unprocessed Loose - Storage	Processed Baled - Storage	Storage Time	Storage Quantity (tons)	Storage Quantity (CY)	Storage Quantity (No. Bales)
Clear Glass	Stored in metal dump carts until carts are full. Kept inside the MRF beneath the conveyor belts.	Stored in one of two 25 CY roll-off bins provided by the vendor. Bins are located outside the facility on the SW side.	2 - 4 Months	9.5	25	Not Baled
Amber Glass	Stored in metal dump carts until carts are full. Kept inside the MRF beneath the conveyor belts.	Stored in one of two 25 CY roll-off bins provided by the vendor. Bins are located outside the facility on the SW side.	2 - 4 Months	9.5	25	Not Baled
Aluminum	Stored in plastic bins w/ covers. Bins located on South end of the facility, by loading dock.	Stored inside the facility, behind the east containment wall of the tipping floor.	4 - 6 months	8		8
Bimetal	Stored in plastic bins w/ covers. Bins located on East end of the facility, by loading dock.	Transported to the scrap metal site.	3 - 6 months	8		Not Baled
Newsprint	Stored in the drop-off trailer located at the NE corner of the MRF.	Hand-sorted and stacked by inmate labor in the drop-off trailer	1 - 3 months		19.5	Not Baled
Corrugated Cardboard	Stored in a fenced area on the pavement connected to the east door of the MRF. Processed weekly.	Stored outside the MRF, on the south pavement.	1 - 3 months	22.5	30	22 - 32
Processable Waste	Stored on the tipping floor for no longer than 48 hours, as per Rule 62-701.710(4)(b).	Stored within the MRF for a maximum of 72 hours per the existing permit.	Loose: 48 hrs Baled: 72 hrs	100		75
Plastics*	Stored in plastic bins w/ covers. Bins located on east side of the facility	Stored on the South end of the facility, by the loading dock.	Loose: 3-6 Months Baled: 3-6 Months	25 tons (Baled)	187 CY (Loose)	

* At this time, there is no market for plastics recycling. The County would like the operational flexibilty to include plastics should plastics recycling become marketable in the future.

APPENDIX G

MRF INSPECTION/MAINTENANCE CHECKLIST

MRF INSPECTION/MAINTENANCE CHECKLIST

LOCATION: HARDEE COUNTY MRF WEEK OF: _____

PERSONNEL: _____

The following equipment should be inspected **DAILY** before operations begin:

- BALER
- HOPPER
- CONVEYOR BELTS
- CHAIN DRIVER
- MOTOR
- OIL FOR STEEL BELTS
- GREASE FOR ROLLERS
- LEACHATE DRAINS

Check the box for the days the equipment was inspected.

☐ MONDAY COMMENTS: _____
☐ TUESDAY COMMENTS: _____
☐ WEDNESDAY COMMENTS: _____
☐ THURSDAY COMMENTS: _____
☐ FRIDAY COMMENTS: _____
☐ SATURDAY COMMENTS: _____
☐ SUNDAY COMMENTS: _____

The following equipment should be inspected **WEEKLY***:

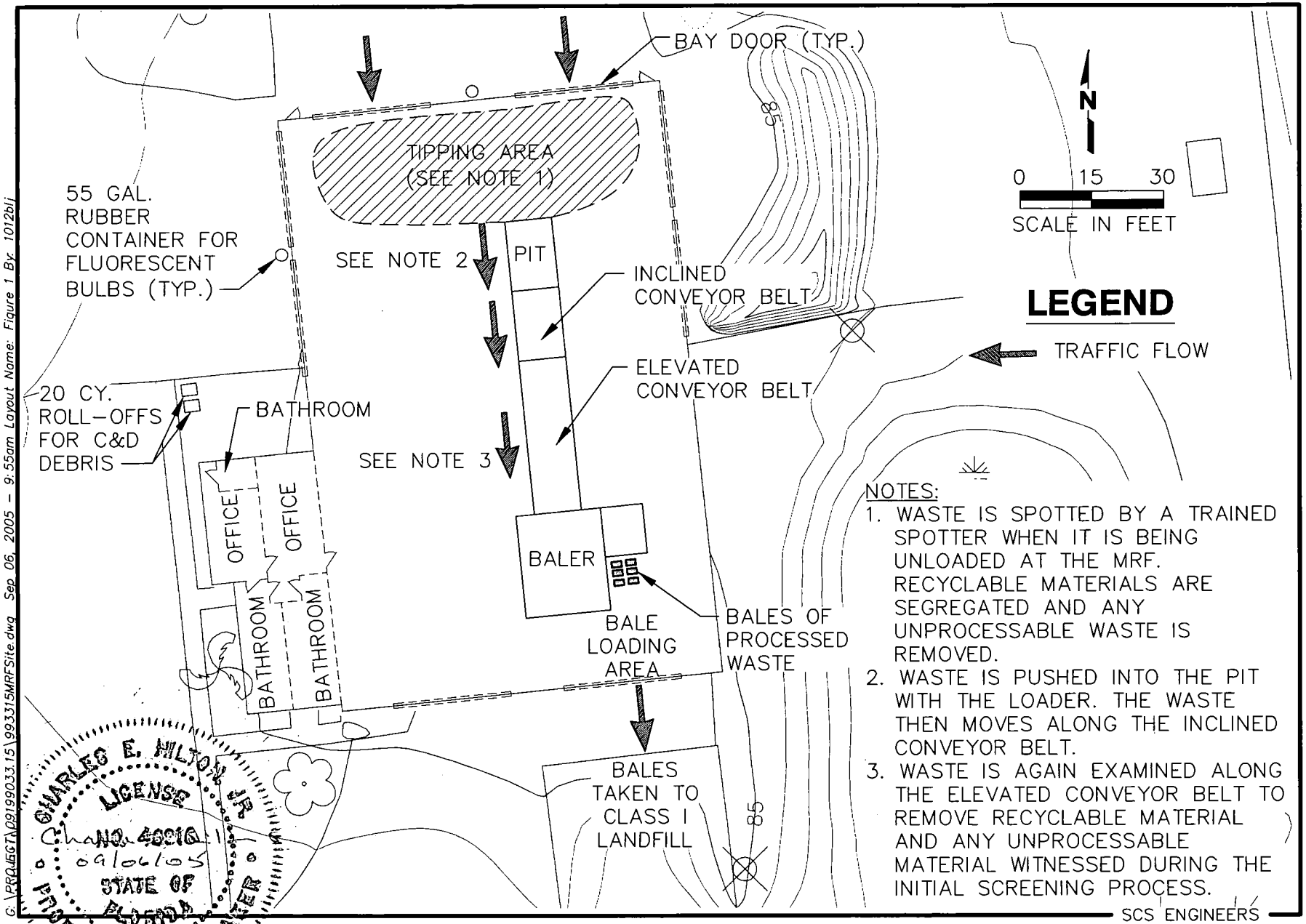
☐ SUMP PUMP COMMENTS: _____
☐ LOADING DOCK PUMP COMMENTS: _____
☐ FIRE EXTINGUISHERS COMMENTS: _____

* Weekly inspections are performed on every Wednesday.

APPENDIX H

MRF SCHEMATIC DRAWINGS

NO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PI ECTION REQUIRED THAT THIS SKETCH BE SIGNED A SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THIS SKETCH IS INTENDED TO DEMONSTRATE THE FLOW PATTERN OF TRAFFIC AT THE MRF. THE ENGINEER DOES NOT CERTIFY TO ANYTHING BEYOND THAT INTENT.



G:\PROJECT\09199033.15\993315MRFSite.dwg Sep 06, 2005 - 9:55am Layout Name: Figure 1 By: 1012bij

CHARLES E. HILTON JR
LICENSE
NO. 46016
09/06/05
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Figure 1. MRF Traffic Pattern, Hardee County Landfill, Hardee County, Florida.

NOTE: THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIRED THAT THIS SKETCH BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THIS SKETCH IS INTENDED AS A SCHEMATIC OF STORAGE AREAS AT THE MRF AND THE ENGINEER DOES NOT CERTIFY TO ANYTHING BEYOND THAT INTENT.

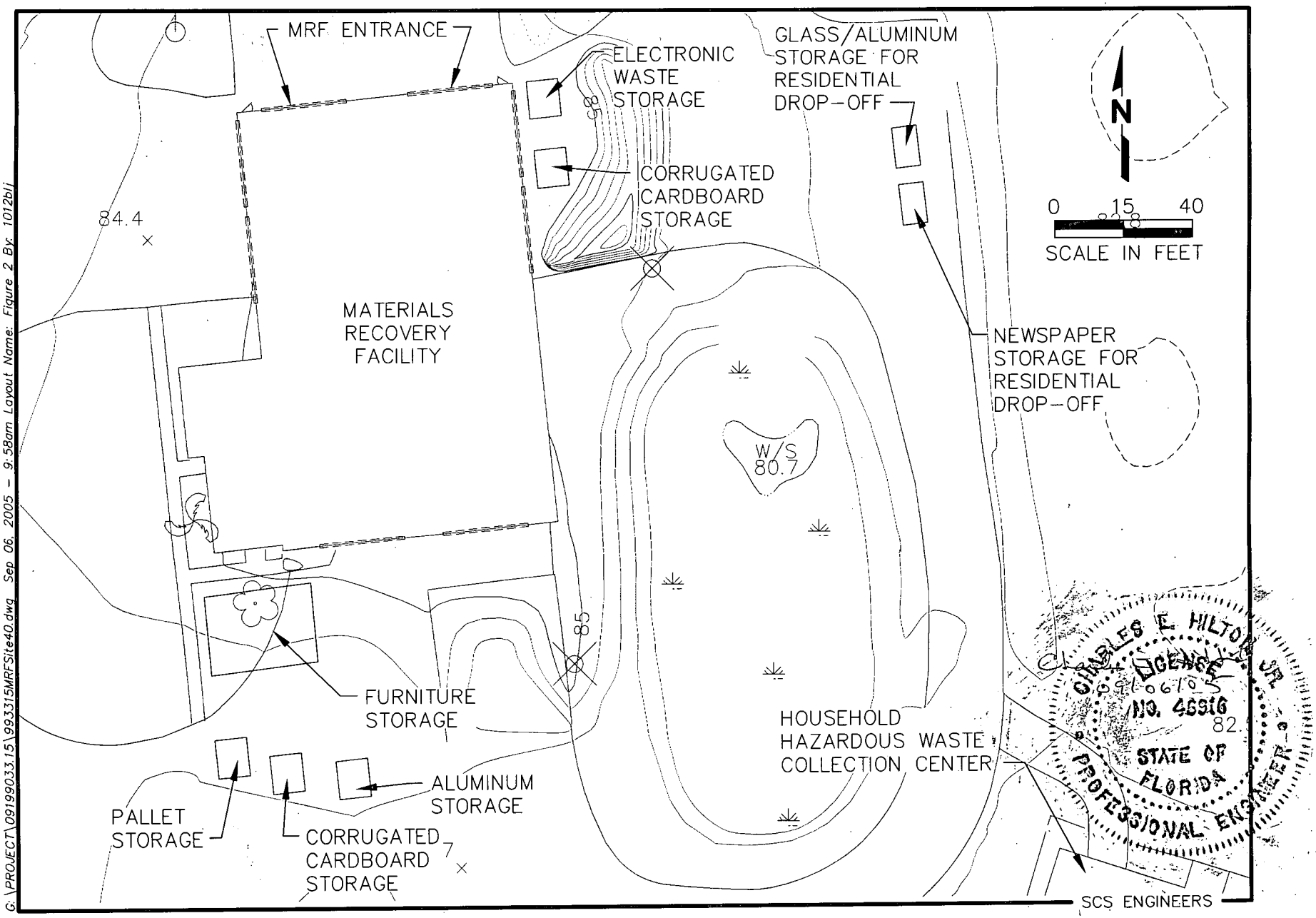


Figure 2. MRF Storage Schematic, Hardee County Landfill, Hardee County, Florida.

NOTE: THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIRED THAT THIS SKETCH BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THIS SKETCH IS INTENDED TO REFLECT THE GENERAL LOCATION OF THE LEACHATE MANAGEMENT SYSTEM IN THE MRF. THE ENGINEER DOES NOT CERTIFY TO ANYTHING BEYOND THAT INTENT INCLUDING THE DESIGN AND ADEQUACY OF THE EXISTING SYSTEM.

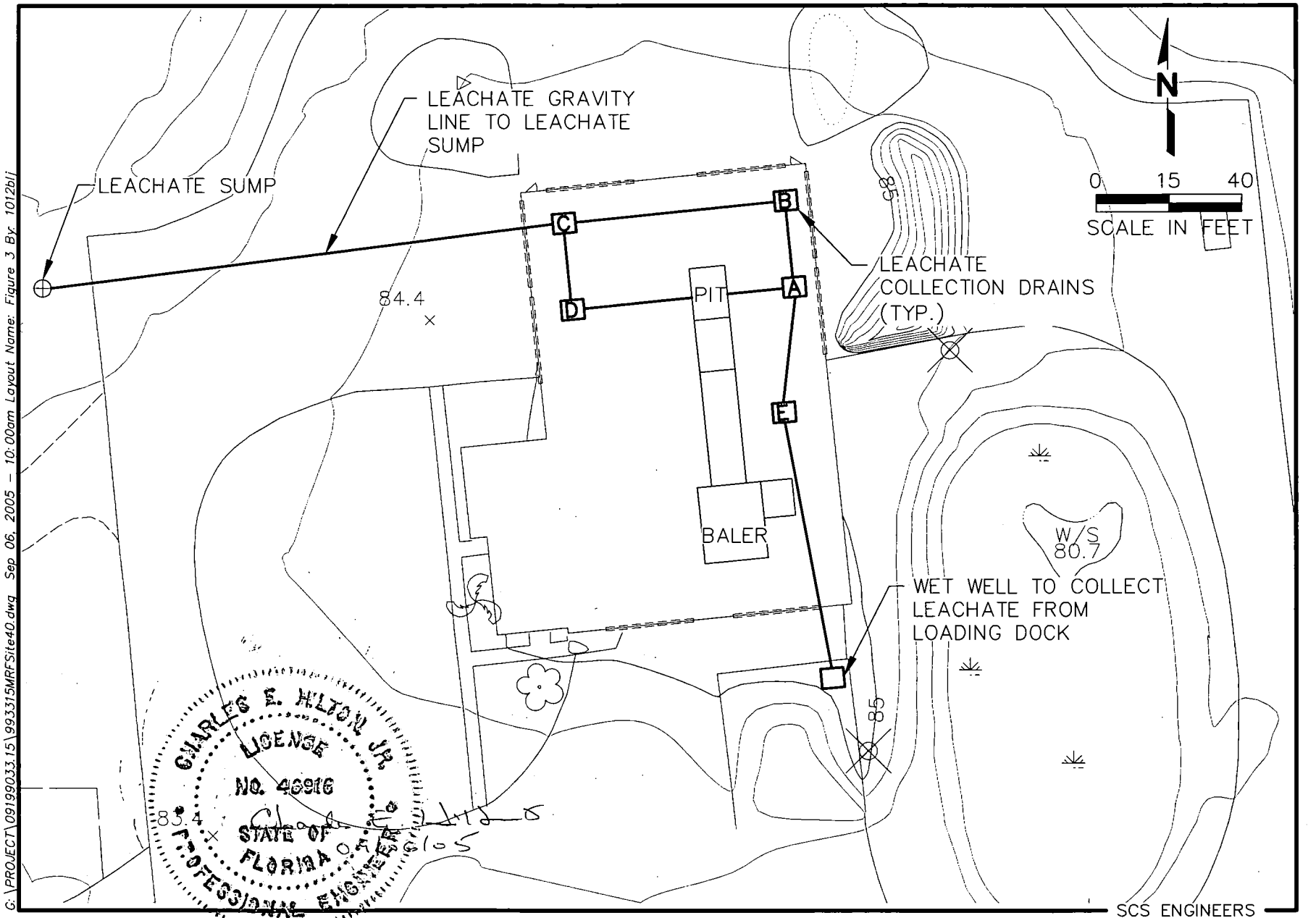


Figure 3. MRF Leachate Management System, Hardee County Landfill, Hardee County, Florida.

APPENDIX I

STARTUP/SHUTDOWN PROCEDURES FOR MRF EQUIPMENT

HARDEE COUNTY MATERIAL RECOVERY FACILITY

START UP/SHUT DOWN PROCEDURES

START UP:
After the baler equipment has been inspected to ensure that the baler is prepared to run properly (see the Inspection Form in Appendix G of the Operations Plan) the baler operator turns the machine on.

Once the button has been deployed to begin machine operation, a warning horn will sound for approximately 15 seconds, this signals to all works that the baler is operating and extreme caution should be taken around the baler and conveyor belts.

Once the spotter and trustees are in place, the loader pushes waste into the pit.

SHUT DOWN:
Under normal operating conditions, the baler operator will schedule the shutdown to correspond with no waste or residue left on the belts or in the hopper.

Once the belts and hopper are cleared of waste, the baler operator will turn off the machine and lock it down (Refer to Equipment Lockout Procedures located in this Appendix). The baler and belts are then cleaned and inspected.

EMERGENCY SHUT DOWN:
For emergency situations, the baler has 12 automatic shut off buttons (one at the baler operator's station and 11 around the baler and belts).

Should the baler operator, the spotter, or any of the sorters foresee an emergency situation, or problems with the machinery, the emergency buttons can be deployed at any of the 12 stations.

If the shut down is for a short period of time, the situation is remedied, and operations are resumed.

Should the baler be down for an extended period of time, the waste left on the belts are shovel off into a truck and taken up to the working face. Any waste left in the unloading area is loaded into a hauling truck and taken to the working face. The baler equipment and conveyor belts are then cleaned.

HARDEE COUNTY MATERIAL RECOVERY FACILITY

EQUIPMENT LOCKOUT PROCEDURES

PURPOSE

This procedure establishes the minimum requirements for the lockout of energy isolating devices whenever maintenance or servicing is done on machines or equipment. It shall be used to ensure that the machine or equipment is stopped, isolated from all potentially hazardous energy sources and locked out before employees perform any servicing or maintenance where the unexpected energization or start-up of the machine or equipment or release of stored energy could cause injury.

COMPLIANCE WITH THIS PROGRAM

All employees are required to comply with the restrictions and limitations imposed upon them during the use of lockout. The authorized employees are required to perform the lockout in accordance with this procedure. All employees, upon observing a machine or piece of equipment that is locked out to perform servicing or maintenance shall not attempt to start, energize or use that machine or equipment.

These procedures are applicable to the following pieces of machinery:

1. Harris Baler Model – Badger L 125S-4-11/8

The procedures also are not applied to normal production operations where minor changes and adjustments and other minor servicing activities are routine, repetitive and integral to the normal day-to-day operations.

Following is the Lockout Procedures to be followed. An abbreviated Lockout checklist sheet is provided for ease of use:

1. During normal operations, the Baler operator on duty will be responsible for applying the lockout. The Baler operator will have the necessary keys to initiate the lockout. The following personnel are authorized to initiate the lockout:

   Crew leaders - Jerry Hutto;
   Resource Recovery Operators - Moises Serrano and Stephen Wingo.

2. The authorized employee will insure that all employees or personnel involved in the operation of the Baler are notified of the shutdown.

3. The Baler will be shut down by depressing the **STOP** buttons on the control panel and removing the key to the machinery.

4. The energy-isolating device (hereafter referred to as the EID), which is the on-off lever; shall be put in the **OFF** position. On the Baler, this lever is located on the upper right hand corner of the power supply control panel, which is located at the southwest corner of the Baler.

5. Lockout the machine with the labeled lockout hasps and locks provided at the lockout station, which is located on the West wall of the Material Recovery Facility, to the right of the bulletin board.

6. The main disconnect panel is located on the inside, east wall of the building. It is marked MDF on the outside of the panel box. Inside the MDF, individual circuit breakers are identified for the Baler. The authorized employee shall place the appropriate breaker in the **OFF** position and lock the panel door.

7. The authorized employee shall tag the MDF panel using tags from the lockout station.

8. Employee will ensure that equipment is disconnected from the energy source by:

   - Checking to see that no personnel are exposed,
   - Trying to start the machine using the normal controls, turn key **ON**, push start button.
   - Verifying the machine is isolated; employee will return the machine controls to the **OFF** position and turning the key to **OFF**.

9. The machine is now locked out.

RESTORING EQUIPMENT TO SERVICE

1. Check the machine and immediate area f or tools and non-essential items that may need to be removed. Insure all safety guards are in place.

2. Insure that all employees have been safely positioned or removed from the area.

3. Remove lockout tags and locks.

4. Restart the machine.

Note: It is imperative that the authorized employee who initiated the lock out must be the one who removes the lock out conditions. In a situation where the employee is not available, anyone of the authorized employees named in Section 1, Page 1, of this procedure can be used, provided the steps for restoring equipment to service are followed.

HARDEE COUNTY MATERIAL RECOVERY FACILITY

LOCK-OUT TAG-OUT CHECK LIST

AUTHORIZED EMPLOYEE SIGNATURE: _____
DATE AND TIME OF LOCK-OUT: _____
EQUIPMENT BEING LOCKED OUT: _____

_____ ALL PERSONNEL NOTIFIED OF SHUTDOWN

_____ KEY TO OPERATOR CONTROL PANEL REMOVED

_____ LOCK-OUT LEVER IN **OFF** POSITION

_____ LOCK-OUT LOCK INSERTED

_____ CIRCUIT BREAKER IN MDF IN **OFF** POSITION

_____ MACHINE WILL NOT START FROM OPERATOR PANEL

_____ MACHINE CONTROL RETURNED TO **OFF** AND KEY REMOVED

START -UP

_____ ALL SAFETY GUARDS IN PLACE

_____ AREA CHECKED FOR TOOLS THAT NEED REMOVING

_____ ALL EMPLOYEES NOTIFIED OF START-UP

_____ LOCKS AND TAGS REMOVED

_____ CIRCUIT BREAKERS IN **ON** POSITION

TIME MACHINE RESTARTED: _____

ATTACHMENT B-6

FINANCIAL ASSURANCE

Environmental Consultants

3012 U.S. Highway 301 No[redacted]
Suite 700
Tampa, FL 33619-2242

813 621-0080
FAX 813 623-6757

SCS ENGINEERS

August 1, 2005
File No. 09199033.15

Mr. Steven G. Morgan
Solid Waste Section
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Subject: Hardee County Materials Recovery Facility Financial Assurance Cost Estimate
Pending Permit No. 126620-002-SO

Dear Mr. Morgan:

On behalf of the Hardee County Solid Waste Department, SCS Engineers (SCS) submits the following responses to your request for additional information in a letter to Ms. Teresa Carver, Solid Waste Director of the Hardee County Landfill, dated July 25, 2005. For ease of review, the FDEP comments are in **bold**, followed by our response.

GENERAL COMMENTS

1. **Cost estimates provided as part of the permit renewal shall be revised cost estimates, including the maximum quantities of each waste and recyclable material type that may be stored at the facility (e.g. Attachment B-2 of the permit application), explanations and/or calculations to support quantities provided and current third-party quotes to support unit costs for loading, hauling, and proper disposal of each material type. Revised cost estimates cannot be based on previously approved inflation-adjusted cost estimates for the landfill or be based on the costs for the County to perform the work. Please provide revised cost estimates.**

   Response: The financial assurance submitted on April 8, 2004 to FDEP with the landfill expansion permit application includes updated quantities and costs for the Material Recovery Facility (MRF). The County has included the funding for the MRF in their escrow account for the expansion. For your convenience, the respective cost calculations from that application are included in Attachment 1. Additional backup information is also provided on the quantities, also located in Attachment 1.

2. **Please note that quantities and unit costs for closing may be added or changed based on comments and revisions to the above referenced permit application, therefore the proposed closing costs may need to be revised accordingly.**

   Response: Refer to Attachment 1 for the financial assurance estimate pertaining to the MRF.

3. **Based on your responses to comments provided above, please provide a revised DEP Form 62-701.900(28), Pages 1-2, that includes the proposed total closing cost estimate for the facility, signed and sealed by a professional engineer, along with all supporting documentation and calculations.**

Response: The DEP Form 62-701.900(28), Pages 1-2 has been included in the April 8, 2004 submittal to FDEP for the landfill expansion. There has been no change to this form.

Enclosed are two copies of the requested information. If you should have any questions please contact us at (813) 621-0080.

Sincerely,

Lindsey Kennelly

Lindsey E. Kennelly, E.I.
Project Engineer

Ed Hilton

C. Ed Hilton, P.E.
Project Director
SCS ENGINEERS

LEK:CEH/lek

Enclosures

cc: Joseph H. O'Neill, SCS

ATTACHMENT 1

FINANCIAL ASSURANCE FOR MRF

[illegible] - Hardee County [illegible] Expansion Application
April 2004

SCS ENGINEERS

SHEET 1 OF 3

CLIENT	PROJECT	JOB NO.
Hardee County		09199027.09

SUBJECT	BY	DATE
Hardee County LF Closure	[illegible]	
	CHECKED	DATE

Closure Cost

Item (13) Site Specific Cost

Quantity | Pricing

WASTE TIRE FACILITY

MAXIMUM QUANTITY STORED
10 TONS [illegible] PLANT

Hardee County [illegible] Quote
$119.50/TON

Total
= 10 TON × $119.50/TON
= $1195 (1200)

MRF

MAXIMUM QUANTITY STORED (Unprocessed materials, Maximum tons [illegible], [illegible]) All other waste stored in [illegible] trailers

TOTAL 180 TONS

See Sheet 3 of 3 for backup

Haul Cost [illegible] to [illegible] $16.20/ton

+ Disposal @ [illegible] $62.07/ton

Total: $78.27/ton Disposal

Quantity to Load onto Trailers
180 TONS × 1 / (600 lb / 1 CY) = 600 CY

[illegible] 4 CY [illegible]

Precision [illegible] 210 6585
~ $465/hr [illegible] Total 600 CY [illegible]

Haul Equipment [illegible]
Hardee County Quote
$210/day + 250

MOB

SCS ENGINEERS

CLIENT	PROJECT	JOB NO.
Hardee County		09199033.09

SUBJECT	BY	DATE
Hardee County LF Closure		
	CHECKED	DATE

Closure Cost

Item [illegible] Unit [illegible] cost

Quantity — Price

MRF

Power wash floors

Approx 2 weeks to clean

5 day [illegible] 2 week = 10 days

Rental
[illegible] 400 6310
235/wk

Operation
70.20/day

Total MRF Closure Cost
Waste 180 tons 74.27 $/ton
$13,368.60

Labor 2 days 710 $/day
[illegible] $1420

[illegible] 250 $
$ 250

Wash 2 week @ 235/wk
$470

Operation 10 days @ 70.2/day
$ 702

Total = $16,210.60
$16,300

SCS ENGINEERS

SHEET 3 OF 3

CLIENT	PROJECT		JOB NUMBER
Hardee County	MRF Permit Renewal		09199033.15
SUBJECT	Financial Assurance	BY TFK	DATE 7/29/05
		CHECKED CEK	DATE 8/1/05

The April 2004 Financial Assurance submittal, with the landfill expansion permit application includes the following quantities for the MRF.

Maximum Quantity Stored = 180 tons
(to include unprocessed material, aluminum cans, tin cans, plastic, cardboard, & other waste stored in vendor trailers).

Goal - Provide backup for the 180 ton quantity

Glass: Removed every 3 months (4 times per year)[1]
2005 Quantity = 57 tons[1] (clear & amber glass)
Quantity @ MRF for pickup = $\frac{57 \text{ ton}}{\text{yr}} \times \frac{1 \text{ yr}}{4 \text{ times}}$ = **14.3 ton glass**

Metals: Removed every 6 months (2 times per year)[1]
2003 Quantity = 113 tons[2] (2003 Quantity used due to 2004 Hurricane)
Quantity @ MRF for pickup = $\frac{113 \text{ tons}}{\text{yr}} \times \frac{\text{yr}}{2 \text{ times}}$ = **56.5 ton metal**

Newsprint: Removed every 3 months (4 times per year)[1]
2005 Quantity = 6 tons[1]
Quantity @ MRF for pickup = $\frac{6 \text{ ton}}{\text{yr}} \times \frac{\text{yr}}{4 \text{ times}}$ = **1.5 tons newsprint**

Cardboard: Removed every 3 months (4 times per year)[1]
2005 Quantity = 74 tons[1]
Quantity @ MRF for pickup = $\frac{74 \text{ tons}}{\text{yr}} \times \frac{\text{yr}}{4 \text{ times}}$ = **18.5 tons cardboard**

Plastics: Hardee no longer segregates plastics from waste @ the MRF.

Total Quantity @ MRF = 90.8 tons

Conclusion: The original quantity of 180 tons is CONSERVATIVE

(1) Source: MRF [illegible] SCS Eng. [illegible] 2005 [illegible]
(2) [illegible] Attachment 6

MATERIAL	ANNUAL TONNAGES STORED AT MRF								
	2002	2003	2004	2005	2006	2007	2008	2009	2010
Tires	118	81	110	111	113	114	115	117	119
Scrap Metal	620	572	1,218	1,234	1,250	1,267	1,283	1,300	1,317
Cardboard	0	73	53	74	75	76	77	78	79
Batteries	4	19	21	21	21	22	22	22	22
Clear Glass	11	23	0	23	23	24	24	24	25
Amber Glass	40	34	9	34	34	35	35	36	36
Aluminum	7	10	2	10	10	10	10	10	10
Newsprint	12	6	0	6	6	6	6	6	6

* 2005 quantities have been estimated based on 2003 and 2004 data; the highest value was used from the 2003 to 2004 data in order to be conservative. A 1.3 percent growth factor was used.

** Plastic is no longer recovered at the MRF, it is sent to the Class I landfill.

Source: MRF Ops Renewal App. SCS Engineers, June 28, 2005.

1. Tires are diverted at the Scalehouse to the Waste Tire Storage Area.
2. The Scrap Metal quantities shown above include metals segregated at the MRF and metals diverted at the scalehouse (e.g. refrigerators, appliances, etc.). Refer to Attachment 2 for the quantities of metal segregated at the MRF.
3. Aluminum quantities are also segregated at the MRF and diverted at the Scalehouse. Refer to Attachment 2 for the quantities of aluminum segregated at the MRF.
4. Batteries are diverted at the Scalehouse to the Household Hazardous Waste Center.

2005 clear → 23 ton − 2005 amber → 34 ton = 37 tons

Glass Quantity = 37 tons

2005 → 6 tons

Newsprint Quantity = 6 tons

2005 → 74 tons

Cardboard Quantity = 74 tons

Attachment 2

SCS TELEPHONE CONVERSATION RECORD

Job No: 09199033.15 **Date:** 7/29/05 **SCS Personnel:** LEK

Person (called, calling): Teresa Carver **Time:** 4:40 pm

Representing: Hardee County

Subject: Quantities **Tel. #:** 863-773-5089

Items Discussed:

Aluminum & bi-metal material is separated at the MRF and taken to the scrap metal pile until a vendor retrieves the material. What is the quantity of these materials before they are taken to the scrap metal pile?

	2003	2004
Aluminum	5.0 ton	2.4 ton
Bi-Metal	108 ton	683 ton

→ omit due to Hurricanes in 2004

DEP Form # 62-701.900(28)
Form Title Financial Assurance Cost Estimate Form
Effective Date 05-27-01

DEP Application No. _____
(Filled by DEP)

Florida Department of Environmental Protection
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
JUN 28 2005
SOUTHWEST DISTRICT
TAMPA

FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: 7/29/04 Date of DEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: Hardee County Landfill WACS or GMSID #: _____

Permit / Application No.: 38414-007-SO Expiration Date: 7/15/2009

Facility Address: 685 Airport Road, Wauchula, FL 33873

Permittee: Hardee County

Mailing Address: 685 Airport Road, Wauchula, FL 33873

Latitude: 27° 34' 10" Longitude: 81° 47' 01" or UTM: _____

Solid Waste Disposal Units Included in Estimate:

Phase / Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
Landfill	12.5		

Total Landfill Acreage included in this estimate. _____ Closure _____ Long-Term Care

Type of landfill: ✔ Class I _____ Class III _____ C&D Debris

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

_____ Letter of Credit*
_____ Performance Bond*
_____ Guaranty Bond*
_____ Insurance Certificate
✔ Escrow Account
_____ Trust Fund Agreement

*Indicates mechanisms that require use of a Standby Trust Fund Agreement

III. ESTIMATE ADJUSTMENT

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code sets forth the method of annual cost estimate adjustment. Cost estimates may be adjusted by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select one of the methods of cost estimate adjustment below.

☑ **(a) Inflation Factor Adjustment**

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste Financial Coordinator at (850)-488-0300.

This adjustment is based on the Department approved closure cost estimate dated: 11/21/2003

Latest Department Approved Closure Cost Estimate:		Current Year Inflation Factor		Inflation Adjusted Closure Cost Estimate:
$1,585,203.55	X	1.02	=	$1,608,981.60

This adjustment is based on the Department approved long-term care cost estimate dated: 11/21/2004

Latest Department Approved Annual Long-Term Care Cost Estimate:		Current Year Inflation Factor		Inflation Adjusted Annual Long-Term Care Cost Estimate:
$161,241.15	X	1.02	=	$163,659.77

Number of Years of Long Term Care Remaining:	X	30
Inflation Adjusted Long-Term Care Cost Estimate:	=	4,909,793.02

☐ **(b) Recalculate Estimates** (see section V)

IV. CERTIFICATION BY ENGINEER

This is to certify that the Financial Assurance Cost Estimates pertaining to the engineering features of the this solid waste management facility have been examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgement, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department **annually**, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Signature of Engineer	Janice Williamson Signature of Owner/Operator
Name & Title (please type)	Janice Williamson, SW Director Name & Title (please type)
Florida Registration Number (affix seal) &Date	(863) 773-5089 Telephone Number
Mailing Address	
Telephone Number	

Department of Environmental Protection

Jeb Bush
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Colleen M. Castille
Secretary

Ms. Janice Williamson, Superintendent
Hardee County Solid Waste Department
685 Airport Road
Wauchula, Florida 33873

August 24, 2004

RE: Hardee County Class I Landfill Financial Assurance Cost Estimates
Permit Nos.: 38414-007-SF, Class I Landfill
129318-001-WT, WTPF
126620-001-SO, MRF

Dear Ms. Williamson:

This letter is to acknowledge receipt of the inflation-adjusted cost estimates dated July 28, 2004 (received August 2, 2004), prepared by Hardee County for closure and long-term care of the Hardee County Class I Landfill and closure of the associated MRF and WTPF. The revised cost estimates received August 2, 2004 (total for closing $1,608,981.60 and long-term care $163,659.77/year x 30 years= $4,909,793.02), are **APPROVED for 2004**. Please note that these estimates are acceptable for closure and long-term care of 12.5 acres. The next annual update (revised or inflation-adjusted estimates) is due no later than **September 1, 2005**.

A copy of these estimates will be forwarded to Mr. Fred Wick, Solid Waste Section, FDEP, 2600 Blair Stone Road, Tallahassee, Florida 32399-2407. Please work with him directly to assess the facility's compliance with the funding mechanism requirements of Rule 62-701.630, F.A.C. If you have any questions, you may contact me at (813) 744-6100 ext. 385.

Sincerely,

Steven G. Morgan
Solid Waste Section
Southwest District

sgm
cc: Fred Wick, FDEP, Tallahassee, w/attachment
Susan Pelz, P.E., FDEP Tampa

October 25, 2004
File No. 09199033.09

Ms. Susan Pelz, P.E.
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, FL 33619

Subject: Estimate of Remaining Capacity and Life of Site
Hardee County Landfill – Permit No. 38414-007-SO
Hardee County, Florida

Dear Ms. Pelz:

SCS Engineers (SCS) is pleased to submit the estimates of remaining capacity and life of site for the Hardee County Landfill. The estimates of remaining capacity and site life are being submitted in fulfillment of Specific Condition No. 9E of Operation Permit No. 38414-007-SO for the landfill. As stated in Specific Condition No. 9E, the topographic survey must be attained for years 2006 and 2009 of the permit life; therefore, the 2003 topographic survey was used to determine the available landfill volume.

WASTE DISPOSAL PROJECTIONS

Hardee County (County) supplied SCS with historic waste disposal information through calendar year 2004. This information is provided in Attachment A and summarized in this section. As shown in the waste quantity report, contained in Attachment A, the amount of waste disposed in the Class I landfill area is the total amount of residential, commercial, and C&D waste material minus the quantity of waste recycled in the MRF.

SCS used the projected population estimation for 2002 through 2004, prepared by the Florida Legislative Office of Economic and Demographic Research Office (FLOEDR) for Hardee County to estimate the waste quantity disposal rates per capita. This period was selected since mandatory collection was started in 2002 and is representative of current County collection policies. Using the FLOEDR population projections and the actual tonnages disposed in the Class I landfill, SCS estimated an annual waste disposal tonnage per capita of approximately 0.7262 tons per person. This disposal rate was assumed to remain constant for future projections beyond 2004. Adjustments for total waste disposed at the landfill were accounted for by variations in population.

The anticipated rate of population growth for Hardee County (estimated by the FLOEDR office) waste was used to project the disposal quantities for years 2005 and beyond. Table 1 was prepared to show the estimated projected waste disposal rates in the landfill.

TABLE 1. ANNUAL WASTE DISPOSAL IN CLASS I LANDFILL BASED ON POPULATION

Year	Population[1]	Waste Disposed of in Class I Landfill (tons/yr)
2002 [2]	27,152	20,051
2003 [2]	27,607	18,813
2004 [3]	28,178	21,378
2005 [4]	28,756	20,883
2006 [4]	29,270	21,256
2007 [4]	29,712	21,577
2008 [4]	30,111	21,867
2009 [4]	30,484	22,138
2010 [4]	30,866	22,415

[1] Source: Florida Legislative Office of Economic and Demographic Research
[2] Actual Waste Quantity disposed in landfill (loose and baled) provided by Hardee County
[3] Disposed waste quantities based upon actual and projected rates
[4] Waste disposed based upon project population estimated and average per capita waste rates

Note that during 2004, multiple hurricanes hit the Hardee County area. Thus the amount of waste projected to be disposed in 2005 is less than the actual amount disposed in 2004.

ESTIMATED REMAINING DISPOSAL CAPACITY AND SITE LIFE

For estimating the remaining disposal capacity and life of site, the final operating buildout plan for the landfill, contained in Attachment B, specifically Drawing No. 8 of 12 of the operations permit, was compared to the March 2003 topographic map to determine the available airspace. Note the elevations shown are top of intermediate cover. The gross available airspace computed was to be 190,000 cubic yards (CY). SCS estimated that 10 percent of that airspace would be used for cover material, leaving approximately 171,000 CY of airspace available for waste disposal.

SCS used an estimated in-place density for the waste material of approximately 43 pounds per cubic foot (pcf) or approximately 1100 pounds per cubic yard. This density is consistent with either baled waste or loose waste fill using dozers for compaction. Table 2 represents the available and consumed airspace on a yearly basis. The consumed airspace was estimated by converting the annual waste disposal quantity into pounds per year and dividing by the estimated in-place waste density.

TABLE 2. AVAILABLE AND CONSUMED AIRSPACE

Year	Waste Disposed of in Class I Landfill (tons/yr)	Airspace Consumed (CY)	Available Airspace (CY)
			171,000
2003	18,813	24,306	146,694
2004	21,378	36,827	109,867
2005	20,883	35,974	73,893
2006	21,256	36,617	37,276
2007	21,577	37,170	106
2008	21,867	37,669	-37,563
2009	22,138	38,136	-75,699
2010	22,415	38,614	-114,313

As shown in Table 2, the landfill will use the available airspace by the end of 2006. The estimated remaining life is approximately 2.0 years. Attachment C contains a further breakdown of the site life calculations. This site life estimate remains consistent with previous estimates (the 2003-2004 site life estimated that available airspace would be consumed by late 2006), even though the multiple hurricanes hit the Hardee County area. This is due to the fact that a large amount of debris and waste have been diverted from the landfill and disposed or recycled in facilities outside of Hardee County.

Please do not hesitate to contact us if you should have any questions regarding this letter.

Very truly yours,

Joseph H. O'Neill, P.E.
Project Manager
SCS ENGINEERS

Raymond J. Dever, P.E., DEE
Vice President
SCS ENGINEERS

JHO/RJD:lek

Cc Janice Williamson, Hardee County

Attachments

Hardee County Solid Waste Department

685 Airport Road ♦ Wauchula, FL 33873
Telephone: (863) 773-5089 ♦ Fax: (863) 773-3907
Teresa.carver@hardeecounty.net

June 9, 2005

Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Fl 33619

Re: Permit Reduction

To Whom It May Concern:

Pursuant to Florida Statutes, Chapter 218.075, Hardee County is eligible for a permit fee reduction.

Hardee County is currently at 8.706 mill and Florida Law state that millage greater than eight mills would justify a permit fee reduction or waiver to be granted on the basis of hardship. Hardee County certifies that the cost of the permit processing fee is a fiscal hardship due to the fact that the ad valorem operating millage is greater than eight mills.

Sincerely,

Lexton H. Albritton, Jr.
County Manager

LHA/tc

DEP Form #	62-701.900(23)
Form Title	Financial Assurance Cost Estimate Form
Effective Date	05-27-01
DEP Application No.	(Filled by DEP)

Florida Department of Environmental Protection

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

FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: April 8, 2004 Date of FDEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: Hardee County Landfill WACS or GMSID #.: _____

Permit / Application No.: 36414-002-SO Expiration Date: 11/19/2003

Facility Address: 685 Airport Road, Wauchula, FL 33873

Permittee: Hardee County

Mailing Address: 685 Airport Road, Wauchula, FL 33873

Latitude: 27°34'10" Longitude: 81°47'01" or UTM: _____

Solid Waste Disposal Units Included in Estimate:

Phase / Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
Phase I	12.5	1983	23
Phase II Section I	5	2006	5

Total Landfill Acreage included in this estimate. _____ Closure _____ Long-Term Care

Type of Landfill: X Class I _____ Class III _____ C&D Debris

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

_____ Letter of Credit *

_____ Performance Bond *

_____ Guaranty Bond *

_____ Insurance Certificate

X Escrow Account

_____ Trust Fund Agreement

*Indicates mechanisms that require use of a Standby Trust Fund Agreement

Northwest District
160 Government Center
Pensacola, FL 32501-5794
850-595-8300

Northeast District
7825 Baymeadows Way, Ste. B200
Jacksonville, FL 32256-7590
904-448-4300

Central District
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767
407-894-7555

Southwest District
3804 Coconut Palm Dr.
Tampa, FL 33619
813-744-6100

South District
2295 Victoria Ave., Ste. 364
Fort Myers, FL 33901-3881
941-332-6975

Southeast District
400 North Congress Ave.
West Palm Beach, FL 33401
561-681-6600

III. ESTIMATE ADJUSTMENT

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code sets forth the method of annual cost estimate adjustment. Cost estimates may be adjustec by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select on of the methods of cost estimate adjustment below.

☐ **(a) Inflation Factor Adjustment**

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste Financial Coordinator at (850)-488-0300.

This adjustment is based on the Department approved closure cost estimate dated: _____

Latest Department Approved Closure Cost Estimate:		Current Year Inflation Factor		Inflation Adjusted Closure Cost Estimate:
_____	x	_____	=	$0.00

This adjustment is based on the Department approved long-term care cost estimate dated: _____

Latest Department Approved Annual Long-Term Care Cost Estimate:		Current Year Inflation Factor		Inflation Adjusted Annual Long-Term Care Cost Estimate
_____	x	_____	=	$0.00

Number of Years of Long Term Care Remaining: x _____

Inflation Adjusted Long-Term Care Cost Estimate: = $0.00

☒ **(b) Recalculate Estimates** (see section V)

IV. CERTIFICATION BY ENGINEER

This is to certify that the Financial Assurance Cost Estimates pertaining to the engineering features of the this solid waste management facility have been examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgement, the cost Estimates are a ture, correct and complete representation of the financial liabilities for closing and long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

_____
Signature of Engineer

Joseph H. O'Neill, P.E.
Name & Title (please type)

052049
Florida Registration Number (affix seal)

SCS Engineers
3012 U.S. Highway 301 North, Suite 700
Tampa, Florida 33619
Mailing Address

813-621-0080
Telephone Number

_____
Signature of Owner/Operator

Janice Williamson, Solid Waste Director
Name & Title (please type)

(863)773-5069
Telephone Number

V. RECALCULATE ESTIMATED CLOSING COST

For the time period in the landfill operation when the extent and manner of its operation makes closing **most expensive.**

** **Third Party Estimate / Quote must be provided for each item**
** **Costs must be for a third party providing all material and labor**

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
1. Proposed Monitoring Wells	(Do not include wells already in existence.)			
	EA	0.00	0.00	$0.00
			Subtotal Monitoring Wells:	$0.00
2. Slope and Fill (bedding layer between waste and barrier layer):				
Excavation	CY	0.00	0.00	$0.00
Placement and Spreading	CY	29,400	0.85	$24,990.00
Compaction	CY	29,400	1.00	$29,400.00
Off Site Material	CY	29,400	4.59	$134,946.00
Delivery	CY	0.00	0.00	$0.00
			Subtotal Slope and Fill:	$189,336.00
3. Cover Material (Barrier Layer):				
Off-Site Clay	CY	0.00	0.00	$0.00
Synthetics - 40 mil	SY	65,100	4.05	$263,655.00
Synthetics - GCL	SY	0.00	0.00	$0.00
Synthetics - Geonet	SY	89,800	4.17	$374,466.00
Biplanar Geocomposite Synthetics - Other 60-mil	SY	24,700	4.82	$119,054.00
			Subtotal Barrier Layer Cover:	$757,175.00
4. Top Soil Cover:				
Off-Site Material	CY	58,800	4.59	$269,892.00
Delivery	CY	0.00	0.00	$0.00
Spread	CY	58800.00	1.57	$92,316.00
			Subtotal Top Soil Cover	$362,208.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
5. Vegetative Layer				
Sodding	SY	88,033	1.67	$147,015.11
Hydroseeding	AC	0.00	0.00	$0.00
Fertilizer	AC	0.00	0.00	$0.00
Mulch	AC	0.00	0.00	$0.00
Other	SY	0.00	0.00	$0.00
			Subtotal Vegetative Layer:	$147,015.11
6. Stormwater Control System:				
Earthwork	CY	3,100	6.34	$19,654.00
Erosion Control	SF	0	0.00	$0.00
Piping	LS	1.00	32,700.00	$32,700.00
Ditches	LS	0.00	0.00	$0.00
FDOT Structures	LS	1.00	21,900.00	$21,900.00
Other	LS	1.00	3,500.00	$3,500.00
			Subtotal Stormwater Controls:	$77,754.00
7. Gas Controls: Passive				
Wells	VF	368	231.00	$84,892.50
Pipe and Fittings	LF	0.00	0.00	$0.00
Monitoring Probes	EA	0.00	0.00	$0.00
NSPS/Title V requireme	LS	0.00	0.00	$0.00
			Subtotal Passive Gas Control:	$84,892.50

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
8. Gas Control: Active Extraction				
Traps	EA	0.00	0.00	$0.00
Sump	EA	0.00	0.00	$0.00
Flare Assembly	EA	0.00	0.00	$0.00
Flame Arrestor	EA	0.00	0.00	$0.00
Mist Eliminator	EA	0.00	0.00	$0.00
Flow Meter	EA	0.00	0.00	$0.00
Blowers	EA	0.00	0.00	$0.00
Collection System	LF	0.00	0.00	$0.00
Other (describe)		0.00	0.00	$0.00
			Subtotal Active Gas Extraction:	$0.00
9. Security System				
Fencing	LF	0.00	0.00	$0.00
Gate(s)	EA	0.00	0.00	$0.00
Sign(s)	EA	0.00	0.00	$0.00
			Subtotal Security System:	$0.00
10. Engineering:				
Closure Plan report	LS	1.00	47,200.00	$47,200.00
Certified Engineer	LS	0.00	0.00	$0.00
NSPS/Title V Air Permit	LS	0.00	0.00	$0.00
Final Survey	LS	1.00	11,000.00	$11,000.00
Certification of Closure	LS	1.00	13,500.00	$13,500.00
Other (detail) (Bidding Services)	LS	1.00	12,300.00	$12,300.00
			Subtotal Engineering:	$84,000.00

11. Professional Services

	Contract Management		Quality Assurance		
	Hours	LS	Hours	LS	TOTAL
P.E. Supervisor	160	15,680.00	0	0.00	$15,680.00
On-Site Engineer	1950	87,750.00	0	0.00	$87,750.00
Office Engineer	0	0.00	0	0.00	$0.00
On-Site Technician	0	0.00	655	29,475.00	$29,475.00
Administrative	80	3,200.00	0	0.00	$3,200.00
Reimbursables	1	30,200.00	1	20,900.00	$51,100.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
Quality Assurance Testing/Labor	LS	1	43,750.00	$43,750.00

Subtotal Professional Services: $230,955.00

Subtotal of 1-11 Above: **$1,933,335.61**

12. Contingency % of Total 15%

Closing Cost Subtotal: **$2,223,335.95**

13. Site Specific Costs (explain)

Waste Tire Facility	$1,200.00
Materials Recovery Facility	$16,300.00
Household Hazardous Wastes	$12,100.00
	$0.00
Other	$0.00
	$0.00

Subtotal Site Specific Costs: $30,000.00

TOTAL CLOSING COSTS: **$2,253,335.95**

VI. ANNUAL COST FOR LONG-TERM CARE (Check Term Length)

____ 5 years ____ 20 years _X_ 30 years ____ Other

See 62-701.600(1)a.1., 62-701.620(1), 62-701.630(3)a. and 62-701.730(11)b. F.A.C. for required term length. For landfills certified closed and Department accepted, enter the remaining long-term care length as "Other" and provide years remaining.

**** Third Party Estimate / Quote must be provided for each item**
**** Costs must be for a third party providing all material and labor**

All items must be addressed. Attach a detailed explanation for all items marked not applicable (N/A).

DESCRIPTION	Sampling Frequency (events/yr.)	Number of Wells	$/Well/Event	$ / Year
1. Groundwater Monitoring (62-701.510(6), and (8)(a))				
Monthly	12	0	0.00	$0.00
Quarterly	4	0	0.00	$0.00
Semi-Annual	2	8	425.00	$6,800.00
Annual	1	0	0.00	$0.00
		Subtotal Groundwater Monitoring:		$6,800.00
2. Surface Water Monitoring (62-701.510(4), and (8)(b))				
Monthly	12	0	0.00	$0.00
Quarterly	4	0	0.00	$0.00
Semi-Annual	2	1	605.00	$1,210.00
Annual	1	0	0.00	$0.00
		Subtotal Surface Water Monitoring:		$1,210.00
3. Gas Monitoring				
Monthly	12	0	0.00	$0.00
Quarterly	4	1	750.00	$3,000.00
Semi-Annual	2	0	0.00	$0.00
Annual	1	0	0.00	$0.00
		Subtotal Gas Monitoring:		$3,000.00

DESCRIPTION	Sampling Frequency (events/yr.)	Number of Wells	$/Well/Event	$ / Year
4. Leachate Monitoring (62-701.510(5), (6)(b) and 62-701.510(8)(c))				
Monthly	12	0	0.00	$0.00
Quarterly	4	0	0.00	$0.00
Semi-Annual	2	1	445.00	$890.00
Annual	1	1	1,275.00	$1,275.00
Other		0	0.00	$0.00
			Subtotal Leachate Monitoring:	$2,165.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
5. Leachate Collection/Treatment Systems Maintenance				
Maintenance				
Collection Pipes	LF	0	0.00	$0.00
Sumps, Traps	EA	9	72.00	$648.00
Lift Stations	EA	0	0.00	$0.00
Cleaning	LS	0.2	23,000.00	$4,600.00
Tanks	EA	0	0.00	$0.00
Impoundments				
Liner Repair	SY	0	0.00	$0.00
Sludge Removal	CY	0	0.00	$0.00
Aeration Systems	CY	0	0.00	$0.00
Floating Aerators	EA	0	0.00	$0.00
Spray Aerators	EA	0	0.00	$0.00
Disposal				
Off-site (Include Transportation and Disposal)	LS	1	134,200.00	$134,200.00

6. Leachate Collection/Treatment Systems Operation

Operation		Hours	$/Hour	Total
P.E. Supervisor	HR	0	0.00	$0.00
On-Site Engineer	HR	0	0.00	$0.00
Office Engineer	HR	0	0.00	$0.00
On-site Technician	LS	0	0.00	$0.00
Materials	LS	0	0.00	$0.00
Subtotal Leachate Collection/Treatment System Maintenance & Operation:				$139,448.00

7. Maintenance of Groundwater Monitoring Wells

Monitoring Wells	LS	1	180.00	$180.00
Replacement	EA	0.2	2,000.00	$400.00
Abandonment	EA	0	0.00	$0.00
Subtotal Groundwater Monitoring Well Maintenance:				$580.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
8. Gas System Maintenance				
Piping, Vents	LF	0	0.00	$0.00
Blowers	EA	0	0.00	$0.00
Flaring Units	EA	0	0.00	$0.00
Meters, Valves	EA	0	0.00	$0.00
Compressors	EA	0	0.00	$0.00
Flame Arrestors	EA	0	0.00	$0.00
Operation	LS	1	460.00	$460.00
Subtotal Gas System:				$460.00
9. Landscape				
Mowing	AC	105.0	121.50	$12,757.50
Fertilizer	AC	0	0.00	$0.00
Subtotal Landscape Maintenance:				$12,757.50

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
10. Erosion Control & Cover Maintenance				
Sodding	SY	1210.00	1.67	$2,020.70
Regrading	AC	0	0.00	$0.00
Liner Repair	SY	56	8.22	$460.32
Clay	CY	0	0.00	$0.00
		Subtotal Erosion Control and Cover Maintenance:		$2,481.02
11. Storm Water Management System Maintenance				
Conveyance Maintenance	LS	0	0.00	$0.00
		Subtotal Storm Water System Maintenance:		$0.00
12. Security System Maintenance				
Fences	LF	50	21.32	$1,066.00
Gate(s)	EA	1.0	301.00	$301.00
Sign(s)	EA	0	0.00	$0.00
			Subtotal Security System:	$1,367.00
13. Utilities	LS	1	500.00	$500.00
14. Administrative				
P.E. Supervisor	LS	1	1568.00	$1,568.00
On-Site Engineer	HR	0	0.00	$0.00
Office Engineer	HR	0	0.00	$0.00
On-site Technician	LS	1	8640.00	$8,640.00
Other (explain)		0	0.00	$0.00
			Subtotal Administrative:	$10,208.00
15. Contingency	% of Total	$180,976.52	10%	$18,097.65
			Subtotal Contingency:	$18,097.65

16. Site Specific Costs (explain)	UNIT COST	
	LS	$0.00
	LS	$0.00
	LS	$0.00
ANNUAL LONG-TERM CARE COST ($/Year):		**$199,074.17**
NUMBER OF YEARS OF LONG-TERM CARE		30
TOTAL LONG-TERM CARE COST ($):		**$5,972,225.16**

Department of Environmental Protection

Jeb Bush
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

David B. Struhs
Secretary

Ms. Janice Williamson, Superintendent
Hardee County Solid Waste Department
685 Airport Road
Wauchula, Florida 33873

January 30, 2004

RE: Hardee County Class I Landfill Financial Assurance Cost Estimates
Pending Permit No.: 38414-007-SF, Class I Landfill
Permit Nos.: 129318-001-WT, WTPF
126620-001-SO, MRF

Dear Ms. Williamson:

This letter is to acknowledge receipt of the revised cost estimates dated January 28, 2004 (received January 29, 2004), prepared by SCS Engineers for closure and long-term care of the Hardee County Class I Landfill and closure of the associated MRF and WTPF. The revised cost estimates received January 29, 2004 (total for closing $1,585,203.55 and long-term care $161,241.15/year x 30 years= $4,837,234.38), are **APPROVED for 2003**. Please note that these estimates are acceptable for closure and long-term care of 12.5 acres. The next annual update (revised or inflation-adjusted estimates) is due no later than September 1, 2004.

A copy of these estimates will be forwarded to Mr. Fred Wick, Solid Waste Section, FDEP, 2600 Blair Stone Road, Tallahassee, Florida 32399-2407. Please work with him directly to assess the facility's compliance with the funding mechanism requirements of Rule 62-701.630, F.A.C. If you have any questions, you may contact me at (813) 744-6100 ext. 385.

Sincerely,

Steven G. Morgan
Solid Waste Section
Southwest District

sgm
cc: Lindsey Kennelly, E.I., SCS Engineers, 3012 U.S. Highway 301 North, Suite 700, Tampa, Florida 33619-2242
Fred Wick, FDEP, Tallahassee, w/attachment
Kim Ford, P.E., FDEP Tampa
Susan Pelz, P.E., FDEP Tampa

ATTACHMENT B-7

STORMWATER MANAGEMENT PERMIT

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
MANAGEMENT AND STORAGE OF SURFACE WATER
GENERAL - CONSTRUCTION
PERMIT NO. 407767.01

TRANSFERRED TO OPERATION PHASE

FLORIDA DEPARTMENT
ENVIRONMENTAL PROTEC

SEP 06 2005

SOUTHWEST DISTRICT
TAMPA

EXPIRATION DATE: October 6, 1995

PERMIT ISSUE DATE: October 6, 1992

This permit, issued under the provisions of Chapter 373, Florida Statutes, Florida Administrative Code Rules 40D-4 and 40D-40 authorizes the permittee to perform the work outlined herein and shown by the application, approved drawing(s), plans, and other documents, attached hereto and kept on file at the District:

PROJECT NAME: Hardee County Solid Waste Recycling Center

GRANTED TO: Hardee County Solid Waste Recycling Center
P.O. Box 246
Wauchula, FL 33873

ABSTRACT: This permit is for the construction of a new surface water management system to serve a 0.9 acre project as named above and as shown on the approved construction plans. The proposed drainage system is designed to maintain the pre-development peak discharge rate for a 25-year, 24-hour storm event. Water quality treatment will be provided through an on-line retention system.

OP. & MAINT. ENTITY: Hardee County Solid Waste Recycling Center

PROPERTY LOCATION: Hardee

SEC/TWP/RGE: 35/33S/25E

TOTAL ACRES OWNED: 5.1

PROJECT SIZE: 0.9

LAND USE: Government

DATE APPLICATION FILED: July 8, 1992

AMENDED DATE: N/A

I. Water Quantity/Quality

POND #	AREA @ T.O.B.	TREATMENT TYPE
B-E	0.34	Retention
B-W	0.20	Retention
TOTAL	0.54	

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
GENERAL
MANAGEMENT OF SURFACE WATER PERMIT

FILE OF RECORD
PERMIT NO. 407767.00

PERMIT GRANTED TO:

Hardee County
412 West Orange Street
Wauchula, FL 33873

PERMIT NO:	407767.00
PERMIT APPLICATION	
DATE FILED:	June 12, 1990
DATE AMENDED:	
PERMIT GRANTED ON:	July 30, 1990
PERMIT EXPIRES ON:	July 30, 1993
PROJECT NAME:	Hardee County Solid Waste Recycle Center
COUNTY:	Hardee
LOCATION	
SECTION	35
TOWNSHIP	33S
RANGE	25E

This permit is issued under the provisions of Chapter 373, Florida Statutes, Florida Administrative Code Rule(s) 40D-4 and 40D-40. The above-named permittee is hereby authorized to perform the work or operate the facility shown by the application and approved drawing(s), plans, and other documents, attached hereto or on file with the District and made a part hereof, and specifically described as follows:

Construction of a Surface Water Management System serving a 5.01 acre Government project as named above.

LIMITING CONDITIONS

1. The permittee shall perform the construction authorized in a manner so as to minimize any adverse impact of the system on fish, wildlife, natural environmental values, and water quality. The permittee shall institute necessary measures during the construction period, including full compaction of any fill material placed around newly installed structures, to reduce erosion, turbidity, nutrient loading and sedimentation in the receiving waters.

2. Water quality data for the water discharged from the permittee's property or into the surface waters of the state shall be submitted to the District as required. Parameters to be monitored may include those listed in Chapter 17-3. Analyses shall be performed according to procedures outlined in the current edition of Standard Methods for the Examination of Water and Wastewater by American Public Health Association of Methods for Chemical analyses of Water and Wastes by the U.S. Environmental Protection Agency. If water quality data are required, the permittee shall provide data as required on volumes of water discharged, including total volume discharged during the days of sampling and total monthly discharges from the property or into surface waters of the state.

3. The permittee shall comply with all applicable local subdivision regulations and other local requirements. In addition the permittee shall obtain all necessary Federal, State, local and special district authorizations prior to the start of any construction or alteration of works authorized by this permit.

4. The operation phase of this permit shall not become effective until the owner or his authorized agent certifies that all facilities have been constructed in accordance with the design permitted by the District. Within 30 days after completion of construction of the surface water management system, the permittee shall submit the certification and notify the District that the facilities are complete. Upon completion of the surface water management system, the permittee shall request transfer of the permit to the responsible entity approved by the District. The District may inspect the system and require remedial measures as a condition of transfer of the permit.

5. All roads shall be set at or above elevations required by the applicable local governmental flood criteria.

6. All building floors shall be set at or above elevations acceptable to the applicable local government.

7. Off-site discharges during construction and development shall be made only through the facilities authorized by this permit. Water discharged from the project shall be through structures having a mechanism suitable for regulating upstream stages. Stages may be subject to operating schedules satisfactory to the District.

8. No construction authorized herein shall commence until a responsible entity acceptable to the District has been established and has agreed to operate and maintain the system. The entity must be provided with sufficient ownership so that it has control over all water management facilities authorized herein. Upon receipt of written evidence of the satisfaction of this condition, the District will issue an authorization to commence construction.

9. The permit does not convey to the permittee any property right nor any rights or privileges other than those specified in the permit and Chapter 40D-4.

10. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction operation, maintenance or use of any facility authorized by the permit.

11. This permit is issued based on the applicant's submitted information which reasonably demonstrates the adverse off-site water resource related impacts will not be caused by the completed permit activity. It is also the responsibility of the permittee to insure that adverse off-site water resource related impacts do not occur during construction.

12. Prior to dewatering, plans shall be submitted to the District for approval. Information shall include as a minimum; pump sizes, locations and hours of operation for each pump. If off-site discharge is proposed, or off-site adverse impacts are evident, an individual water use permit may be required. The permittee is cautioned that several months may be required for consideration of the water use permit application. Temporary dewatering during construction, i.e., well pointing, ditching, etc. that will not affect adjacent wetlands or off-site lands is exempt from this requirement.

STANDARD CONDITIONS

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Chapters 373 and 403, Florida Statutes. The permittee is hereby placed on notice that the District will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the District.

3. The issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other District and Department of Environmental Regulation permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of the permitted system, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and District and Department of Environmental Regulation rules, unless specifically authorized by any order from the District or Department.

6. The permittee shall at all times properly operate and maintain the systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with conditions of this permit, as required by District rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by District rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized District personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted; for the purposes of inspection and testing to determine compliance with this permit and District regulations, such as:

   a. Having access to and copying any records that must be kept under the conditions of the permit;

b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit;
c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules; and
d. Gathering of data and information.

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

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

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

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the District, may be used by the District as evidence in any enforcement case arising under the Florida Statutes or District rules, except where such use is proscribed by Florida Statutes.

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

11. This permit is transferable only upon District approval in accordance with Florida Administrative Code rules 40D-4.351 as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the District.

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

13. Drawings, plans, calculations, specifications or other information submitted by the permittee, not attached hereto, but retained on file at the District office, are made a part of this permit.

14. A copy of this permit and a set of construction drawings depicting the permitted system are required to be kept at the work site of the permitted activity during the entire period of construction or operation. The approved construction drawings are issued as a part of this permit.

15. The discharges from this system shall meet state water quality standards as set forth in Chapter 17-3 and Rule 17-4.242 for class waters equivalent to the receiving waters.

16. Any water discharged from the site during construction of the project shall meet State water quality standards at the property boundary or point of discharge to wetlands or State waters. If the discharge does not meet these standards, the discharge will be immediately stopped and the District shall be notified of corrective action taken to correct the violation. Turbidity shall not exceed 29 N.T.U. above background level. Turbidity shall be monitored at least daily during discharge, or more often as determined by the project engineer if needed, to ensure compliance.

17. The permittee and construction representatives shall assure that erosion and sediment control measures as necessary and as required by Rule 40D-4.091 shall be effectively implemented continuously from beginning of project construction until completion to prevent erosion and transport and discharge of sediment to wetlands or any property other than the project area. Project detention/retention ponds and discharge control structures which are to be constructed as part of the project shall be initially built and maintained continuously during project construction to avoid adverse impact to receiving waters or off site.

18. Except as authorized by this Permit, any further land development, wetlands disturbance or other construction within the total land area of this site will require additional permitting in accordance with Chapters 40D-4 and 40D-40, F.A.C.

19. All rights-of-way and easement locations necessary to construct, operate and maintain all facilities, including uplands conservation/buffer areas and wetlands, which constitute the permitted surface water management system shall be reserved for water management purposes. Prior to site occupancy the reserved areas shall be shown on any final subdivision plat and recorded in the county public records as special use areas for dedication to the responsible operation and maintenance entity.

20. Construction of the discharge control and water quality treatment facilities which are part of the permitted surface water management system shall be completed and operational prior to beneficial occupancy and use of the project development being served.

21. Any existing wells in the path of construction shall be properly plugged and abandoned by a licensed water well contractor in accordance with Chapter 40D-3 and Rule 17-21.10(4), F.A.C.

22. Any existing septic tanks on this site shall be abandoned at the beginning of the project construction in accordance with Rule 10D-6.53, F.A.C.

23. Any existing fuel storage tanks and fuel pumps on this site shall be removed at the beginning of project construction in accordance with Rule 17 61.05-(3)(c), F.A.C.

24. All retention/detention pond side slopes, except over filter media, shall be sodded, and staked as necessary, to prevent erosion. Filter media surfaces shall also be stabilized to prevent erosion, but in a manner that does not

25. By issuance of this permit the District, its employees and representatives assume no responsibility and/or liability in regard to either the design, construction or performance of the permitted facilities.

26. Any system alteration, including for augmentation into or withdrawal of water from the permitted system, other than as specifically authorized by this permit will require additional District permitting consideration. The water level of retention and detention ponds shall not be augmented by pumping or diversion of water into the ponds to artificially control their level above the design normal or beginning storage level. Wells and diversion facilities for such augmentation may require water use permitting according to Chapter 40D-2, F.A.C.

27. Information and reports required to be submitted by this permit shall be submitted to:

    Permits Data Group
    Southwest Florida Water Management District
    2379 Broad Street
    Brooksville, Florida 34609-6899

28. Construction of all water management facilities, including wetlands compensation, grading, mulching, planting of mitigation areas, etc. must be completed prior to beneficial occupancy of the project or operation of the surface water management system.

29. The excavation of retention/detention ponds is limited to the permitted design elevation(s).

TRACKING CONDITIONS

1. The permittee shall immediately provide written notification to the District upon beginning any construction authorized by this permit.

2. The applicant shall retain the Design Engineer, or other Professional Engineer registered in Florida, to conduct on-site observations of construction and assist with the as-built certification requirements of this project; the permittee shall inform the District in writing and prior to beginning construction of the name, address and phone number of the Professional Engineer so employed by the applicant/permittee for that purpose.

3. The Operation and Maintenance Entity shall submit inspection reports in the form required by the District, in accordance with the following schedule unless specified otherwise herein or in Application Information.

    a. For systems utilizing retention, the inspections shall be performed two (2) years after operation is authorized and every two (2) years thereafter.

4. Refer to LIMITING CONDITION No. 4 herein.

SPECIFIC CONDITIONS

1. All surface water management systems shall practice water conservation to maintain environmental quality and resource protection; to increase the efficiency of transport, application and use; to decrease waste; to minimize unnatural runoff from the property and to minimize dewatering of off-site property. At such time in the future as the Governing Board establishes minimum water levels in aquifers or minimum rates of flow in streams, or otherwise adopts specific conservation criteria, the permittee may be required to undergo an alteration of the system to comply with such criteria upon notice by the District and after a reasonable period for permitting compliance.

2. Wetland boundaries and buffer areas shall be clearly delineated on the site prior to initial clearing and grading activities. The delineation shall endure throughout the construction period and be readily discernible to construction personnel.

3. Any further activities beyond the permitted limits of construction, particularly in the vicinity of wetlands, will require prior surface water permitting under Chapter 40D-4/40, Florida Administrative Code.

Robert M. Virtes

Authorized Signature
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
MANAGEMENT AND STORAGE OF SURFACE WATER
GENERAL - CONSTRUCTION
PERMIT NO. 407767.01

EXPIRATION DATE: October 6, 1995 PERMIT ISSUE DATE: October 6, 1992

This permit, issued under the provisions of Chapter 373, Florida Statutes, Florida Administrative Code Rules 40D-4 and 40D-40 authorizes the permittee to perform the work outlined herein and shown by the application, approved drawing(s), plans, and other documents, attached hereto and kept on file at the District:

PROJECT NAME: Hardee County Solid Waste Recycling Center

GRANTED TO: Hardee County Solid Waste Recycling Center
P.O. Box 246
Wauchula, FL 33873

ABSTRACT: This permit is for the construction of a new surface water management system to serve a 0.9 acre project as named above and as shown on the approved construction plans. The proposed drainage system is designed to maintain the pre-development peak discharge rate for a 25-year, 24-hour storm event. Water quality treatment will be provided through an on-line retention system.

OP. & MAINT. ENTITY: Hardee County Solid Waste Recycling Center

PROPERTY LOCATION: Hardee

SEC/TWP/RGE: 35/33S/25E

TOTAL ACRES OWNED: 5.1

PROJECT SIZE: 0.9

LAND USE: Government

DATE APPLICATION FILED: April 9, 1992

AMENDED DATE: July 8, 1992

1. Water Quantity/Quality

POND #	AREA @ T.O.B.	TREATMENT TYPE
B-E	0.34	Retention
B-W	0.20	Retention
TOTAL	0.54	

FILE OF RECORD
PERMIT NO. 4 0n6
FILED ON 11-6-92 BY CLP

25 x 10

II. 100-Year Floodplain

Encroachment (ac-ft):	Compensation (ac-ft):
0.00	0.00

III. Environmental Considerations

No wetlands or other distinct hydrologic features exist within the project area.

SPECIFIC CONDITIONS

1. All surface water management systems shall practice water conservation to maintain environmental quality and resource protection; to increase the efficiency of transport, application and use; to decrease waste; to minimize unnatural runoff from the property and to minimize dewatering of off-site property. At such time in the future as the Governing Board establishes minimum water levels in aquifers or minimum rates of flow in streams, or otherwise adopts specific conservation criteria, the permittee may be required to undergo an alteration of the system to comply with such criteria upon notice by the District and after a reasonable period for permitting compliance.

2. In order to ensure that the person who will construct the proposed work is identified as required by 373.413(2)(f), Florida Statutes, once the contract is awarded, the name, address, and telephone number of the contractor will be submitted to the District prior to construction referencing General Permit Number 407767.01.

3. This permit is for a single phase (i.e., full construction buildout) as regards the stormwater management system.

TRACKING CONDITIONS

1. The permittee shall immediately provide written notification to the District upon beginning any construction authorized by this permit.

2. The applicant shall retain the Design Engineer, or other Professional Engineer registered in Florida, to conduct on-site observations of construction and assist with the as-built certification requirements of this project; the permittee shall inform the District in writing and prior to beginning construction of the name, address and phone number of the Professional Engineer so employed by the applicant/permittee for that purpose.

3. The Operation and Maintenance Entity shall submit inspection reports in the form required by the District, in accordance with the following schedule unless specified otherwise herein or in Application Information.

( ) For systems utilizing effluent filtration or exfiltration, the inspections shall be performed 18 months after operation is authorized and every 18 months thereafter.

(X) For systems utilizing retention and wet detention, the inspections shall be performed two years after operation is authorized and every two years thereafter.

( ) For systems utilizing effluent filtration or exfiltration and retention and wet detention, the inspections shall be performed 18 months after operation is authorized and every 18 months thereafter.

LIMITING AND STANDARD CONDITIONS

1. The Permittee shall comply with the attached Limiting and Standard Conditions which are attached hereto, incorporated herein by reference as Exhibits "A" and "B" respectively and made a part hereof.

Robert M. Vierstel 10/6/92
Authorized Signature

U 008

EXHIBIT "A"

1. The permittee shall perform the construction authorized in a manner so as to minimize any adverse impact of the system on fish, wildlife, natural environmental values, and water quality. The permittee shall institute necessary measures during the construction period, including full compaction of any fill material placed around newly installed structures, to reduce erosion, turbidity, nutrient loading and sedimentation in the receiving waters.

2. Water quality data for the water discharged from the permittee's property or into the surface waters of the state shall be submitted to the District as required. Parameters to be monitored may include those listed in Chapter 17-3. Analyses shall be performed according to procedures outlined in the current edition of Standard Methods for the Examination of Water and Wastewater by American Public Health Association of Methods for Chemical analyses of Water and Wastes by the U.S. Environmental Protection Agency. If water quality data are required, the permittee shall provide data as required on volumes of water discharged, including total volume discharged during the days of sampling and total monthly discharges from the property or into surface waters of the state.

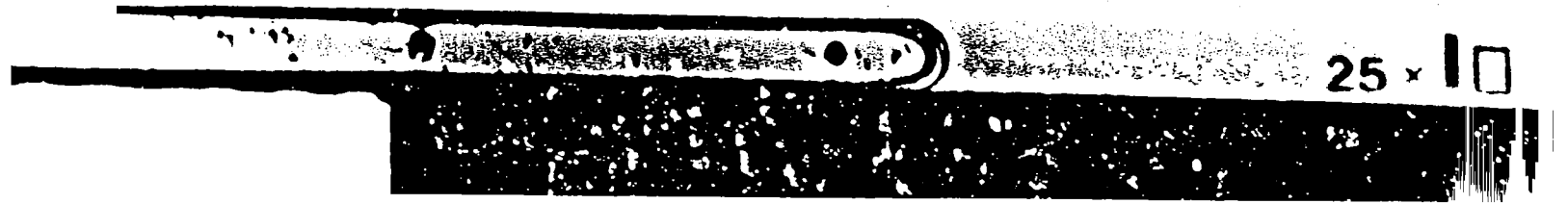
3. The permittee shall comply with all applicable local subdivision regulations and other local requirements. In addition the permittee shall obtain all necessary Federal, State, local and special district authorizations prior to the start of any construction or alteration of works authorized by this permit.

4. The operation phase of this permit shall not become effective until the owner or his authorized agent certifies that all facilities have been constructed in accordance with the design permitted by the District. Within 30 days after completion of construction of the surface water management system, the permittee shall submit the certification and notify the District that the facilities are complete. Upon completion of the surface water management system, the permittee shall request transfer of the permit to the responsible entity approved by the District. The District may inspect the system and require remedial measures as a condition of transfer of the permit.

5. All roads shall be set at or above elevations required by the applicable local governmental flood criteria.

6. All building floors shall be set at or above elevations acceptable to the applicable local government.

7. Off-site discharges during construction and development shall be made only through the facilities authorized by this permit. Water discharged from the project shall be through structures having a mechanism suitable for regulating upstream stages. Stages may be subject to operating schedules satisfactory to the District.



No construction authorized herein shall commence until a responsible entity acceptable to the District has been established and has agreed to operate and maintain the system. The entity must be provided with sufficient ownership so that it has control over all water management facilities authorized herein. Upon receipt of written evidence of the satisfaction of this condition, the District will issue an authorization to commence construction.

. The permit does not convey to the permittee any property right nor any rights or privileges other than those specified in the permit and Chapter 40D-4.

.0. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction operation, maintenance or use of any facility authorized by the permit.

.1. This permit is issued based on the applicant's submitted information which reasonably demonstrates the adverse off-site water resource related impacts will not be caused by the completed permit activity. It is also the responsibility of the permittee to insure that adverse off-site water resource related impacts do not occur during construction.

.2. Prior to dewatering, plans shall be submitted to the District for approval. Information shall include as a minimum; pump sizes, locations and hours of operation for each pump. If off-site discharge is proposed, or off-site adverse impacts are evident, an individual water use permit may be required. The permittee is cautioned that several months may be required for consideration of the water use permit application. Temporary dewatering during construction, i.e., well pointing, ditching, etc. that will not affect adjacent wetlands or off-site lands is exempt from this requirement.

U 010

EXHIBIT "B"

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Chapters 373 and 403, Florida Statutes. The permittee is hereby placed on notice that the District will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the District.

3. The issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other District and Department of Environmental Regulation permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of the permitted system, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and District and Department of Environmental Regulation rules, unless specifically authorized by any order from the District or Department.

6. The permittee shall at all times properly operate and maintain the systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with conditions of this permit, as required by District rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by District rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized District personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted; for the purposes of inspection and testing to determine compliance with this permit and District regulations, such as:

   a. Having access to and copying any records that must be kept under the conditions of the permit;
   b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit;
   c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules; and

d. Gathering of data and information.

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

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

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

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the District, may be used by the District as evidence in any enforcement case arising under the Florida Statutes or District rules, except where such use is proscribed by Florida Statutes.

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

11. This permit is transferable only upon District approval in accordance with Florida Administrative Code rules 40D-4.351 as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the District.

12. When specifically required as terms of permitting the permittee shall comply with the following monitoring and record keeping requirements:

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

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
MANAGEMENT AND STORAGE OF SURFACE WATER
GENERAL - CONSTRUCTION
PERMIT NO. 407767.01

EXPIRATION DATE: October 6, 1995

PERMIT ISSUE DATE: October 6, 1992

This permit, issued under the provisions of Chapter 373, Florida Statutes, Florida Administrative Code Rules 40D-4 and 40D-40 authorizes the permittee to perform the work outlined herein and shown by the application, approved drawing(s), plans, and other documents, attached hereto and kept on file at the District:

PROJECT NAME: Hardee County Solid Waste Recycling Center

GRANTED TO: Hardee County Solid Waste Recycling Center
P.O. Box 246
Wauchula, FL 33873

ABSTRACT: This permit is for the construction of a new surface water management system to serve a 0.9 acre project as named above and as shown on the approved construction plans. The proposed drainage system is designed to maintain the pre-development peak discharge rate for a 25-year, 24-hour storm event. Water quality treatment will be provided through an on-line retention system.

OP. & MAINT. ENTITY: Hardee County Solid Waste Recycling Center

PROPERTY LOCATION: Hardee

SEC/TWP/RGE: 35/33S/25E

TOTAL ACRES OWNED: 5.1

PROJECT SIZE: 0.9

LAND USE: Government

DATE APPLICATION FILED: April 9, 1992

AMENDED DATE: July 8, 1992

1. Water Quantity/Quality

POND #	AREA @ T.O.B.	TREATMENT TYPE
B-E	0.34	Retention
B-W	0.20	Retention
TOTAL	0.54	

FILE OF RECORD
PERMIT NO. 407767.01
FILED ON 11-6-92 BY Cup

II. 100-Year Floodplain

Encroachment (ac-ft):	Compensation (ac-ft):
0.00	0.00

III. Environmental Considerations

No wetlands or other distinct hydrologic features exist within the project area.

SPECIFIC CONDITIONS

1. All surface water management systems shall practice water conservation to maintain environmental quality and resource protection; to increase the efficiency of transport, application and use; to decrease waste; to minimize unnatural runoff from the property and to minimize dewatering of off-site property. At such time in the future as the Governing Board establishes minimum water levels in aquifers or minimum rates of flow in streams, or otherwise adopts specific conservation criteria, the permittee may be required to undergo an alteration of the system to comply with such criteria upon notice by the District and after a reasonable period for permitting compliance.

2. In order to ensure that the person who will construct the proposed work is identified as required by 373.413(2)(f), Florida Statutes, once the contract is awarded, the name, address, and telephone number of the contractor will be submitted to the District prior to construction referencing General Permit Number 407767.01.

3. This permit is for a single phase (i.e., full construction buildout) as regards the stormwater management system.

TRACKING CONDITIONS

1. The permittee shall immediately provide written notification to the District upon beginning any construction authorized by this permit.

2. The applicant shall retain the Design Engineer, or other Professional Engineer registered in Florida, to conduct on-site observations of construction and assist with the as-built certification requirements of this project; the permittee shall inform the District in writing and prior to beginning construction of the name, address and phone number of the Professional Engineer so employed by the applicant/permittee for that purpose.

3. The Operation and Maintenance Entity shall submit inspection reports in the form required by the District, in accordance with the following schedule unless specified otherwise herein or in Application Information.

( ) For systems utilizing effluent filtration or exfiltration, the inspections shall be performed 18 months after operation is authorized and every 18 months thereafter.

(X) For systems utilizing retention and wet detention, the inspections shall be performed two years after operation is authorized and every two years thereafter.

( ) For systems utilizing effluent filtration or exfiltration and retention and wet detention, the inspections shall be performed 18 months after operation is authorized and every 18 months thereafter.

LIMITING AND STANDARD CONDITIONS

1. The Permittee shall comply with the attached Limiting and Standard Conditions which are attached hereto, incorporated herein by reference as Exhibits "A" and "B" respectively and made a part hereof.

Robert M. Nisbet 10/6/92
Authorized Signature

U 008

EXHIBIT "A"

1. The permittee shall perform the construction authorized in a manner so as to minimize any adverse impact of the system on fish, wildlife, natural environmental values, and water quality. The permittee shall institute necessary measures during the construction period, including full compaction of any fill material placed around newly installed structures, to reduce erosion, turbidity, nutrient loading and sedimentation in the receiving waters.

2. Water quality data for the water discharged from the permittee's property or into the surface waters of the state shall be submitted to the District as required. Parameters to be monitored may include those listed in Chapter 17-3. Analyses shall be performed according to procedures outlined in the current edition of Standard Methods for the Examination of Water and Wastewater by American Public Health Association of Methods for Chemical analyses of Water and Wastes by the U.S. Environmental Protection Agency. If water quality data are required, the permittee shall provide data as required on volumes of water discharged, including total volume discharged during the days of sampling and total monthly discharges from the property or into surface waters of the state.

3. The permittee shall comply with all applicable local subdivision regulations and other local requirements. In addition the permittee shall obtain all necessary Federal, State, local and special district authorizations prior to the start of any construction or alteration of works authorized by this permit.

4. The operation phase of this permit shall not become effective until the owner or his authorized agent certifies that all facilities have been constructed in accordance with the design permitted by the District. Within 30 days after completion of construction of the surface water management system, the permittee shall submit the certification and notify the District that the facilities are complete. Upon completion of the surface water management system, the permittee shall request transfer of the permit to the responsible entity approved by the District. The District may inspect the system and require remedial measures as a condition of transfer of the permit.

5. All roads shall be set at or above elevations required by the applicable local governmental flood criteria.

6. All building floors shall be set at or above elevations acceptable to the applicable local government.

7. Off-site discharges during construction and development shall be made only through the facilities authorized by this permit. Water discharged from the project shall be through structures having a mechanism suitable for regulating upstream stages. Stages may be subject to operating schedules satisfactory to the District.

8. No construction authorized herein shall commence until a responsible entity acceptable to the District has been established and has agreed to operate and maintain the system. The entity must be provided with sufficient ownership so that it has control over all water management facilities authorized herein. Upon receipt of written evidence of the satisfaction of this condition, the District will issue an authorization to commence construction.

9. The permit does not convey to the permittee any property right nor any rights or privileges other than those specified in the permit and Chapter 40D-4.

10. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction operation, maintenance or use of any facility authorized by the permit.

11. This permit is issued based on the applicant's submitted information which reasonably demonstrates the adverse off-site water resource related impacts will not be caused by the completed permit activity. It is also the responsibility of the permittee to insure that adverse off-site water resource related impacts do not occur during construction.

12. Prior to dewatering, plans shall be submitted to the District for approval. Information shall include as a minimum; pump sizes, locations and hours of operation for each pump. If off-site discharge is proposed, or off-site adverse impacts are evident, an individual water use permit may be required. The permittee is cautioned that several months may be required for consideration of the water use permit application. Temporary dewatering during construction, i.e., well pointing, ditching, etc. that will not affect adjacent wetlands or off-site lands is exempt from this requirement.

0 010

25 x 1

EXHIBIT "B"

The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Chapters 373 and 403, Florida Statutes. The permittee is hereby placed on notice that the District will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the District.

3. The issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other District and Department of Environmental Regulation permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of the permitted system, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and District and Department of Environmental Regulation rules, unless specifically authorized by any order from the District or Department.

6. The permittee shall at all times properly operate and maintain the systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with conditions of this permit, as required by District rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by District rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized District personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted; for the purposes of inspection and testing to determine compliance with this permit and District regulations, such as:

   a. Having access to and copying any records that must be kept under the conditions of the permit;
   b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit;
   c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules; and

d. Gathering of data and information.

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

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

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

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

In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the District, may be used by the District as evidence in any enforcement case arising under the Florida Statutes or District rules, except where such use is proscribed by Florida Statutes.

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

This permit is transferable only upon District approval in accordance with Florida Administrative Code rules 40D-4.351 as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the District.

When specifically required as terms of permitting the permittee shall comply with the following monitoring and record keeping requirements:

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

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

14. Drawings, plans, calculations, specifications or other information submitted by the permittee, not attached hereto, but retained on file at the District office, are made a part of this permit.

15. A copy of this permit and a set of construction drawings depicting the permitted system are required to be kept at the work site of the permitted activity during the entire period of construction or operation. The approved construction drawings are issued as a part of this permit.

16. The discharges from this system shall meet state water quality standards as set forth in Chapter 17-3 and Rule 17-4.242 for class waters equivalent to the receiving waters.

17. Any water discharged from the site during construction of the project shall meet State water quality standards at the property boundary or point of discharge to wetlands or State waters. If the discharge does not meet these standards, the discharge will be immediately stopped and the District shall be notified of corrective action taken to correct the violation. Turbidity shall not exceed 29 N.T.U. above background level. Turbidity shall be monitored at least daily during discharge, or more often as determined by the project engineer if needed, to ensure compliance.

18. The permittee and construction representatives shall assure that erosion and sediment control measures as necessary and as required by Rule 40D-4.091 shall be effectively implemented continuously from beginning of project construction until completion to prevent erosion and transport and discharge of sediment to wetlands or any property other than the project area. Project detention/retention ponds and discharge control structures which are to be constructed as part of the project shall be initially built and maintained continuously during project construction to avoid adverse impact to receiving waters or off site.

19. Except as authorized by this Permit, any further land development, wetlands disturbance or other construction within the total land area of this site will require additional permitting in accordance with Chapters 40D-4 and 40D-40, F.A.C.

20. All rights-of-way and easement locations necessary to construct, operate and maintain all facilities, including uplands conservation/buffer areas and wetlands, which constitute the permitted surface water management system shall be reserved for water management purposes. Prior to site occupancy the reserved areas shall be shown on any final subdivision plat and recorded in the county public records as special use areas for dedication to the responsible operation and maintenance entity.

21. Construction of the discharge control and water quality treatment facilities which are part of the permitted surface water management system shall be completed and operational prior to beneficial occupancy and use of the project development being served.

22. Establishment and survival of littoral areas provided for stormwater quality treatment in wet detention systems shall be assured by proper and continuing

maintenance procedures designed to promote viable wetlands plant growth of natural diversity and character. Certified as-built drawings depicting the established wet detention treatment areas shall be submitted to the District for inspection and approval upon completion of construction. Following as-built approval, perpetual maintenance shall be provided for the permitted system.

23. Any existing wells in the path of construction shall be properly plugged and abandoned by a licensed water well contractor in accordance with Chapter 40D-3 and Rule 17-21.10(4), F.A.C.

24. Any existing septic tanks on this site shall be abandoned at the beginning of the project construction in accordance with Rule 10D-6.53, F.A.C.

25. Any existing fuel storage tanks and fuel pumps on this site shall be removed at the beginning of project construction in accordance with Rule 17-61.05(3)(c), F.A.C.

26. All retention/detention pond side slopes, except over filter media, shall be sodded, and staked as necessary, to prevent erosion. Filter media surfaces shall also be stabilized to prevent erosion, but in a manner that does not restrict infiltration.

27. By issuance of this permit the District, its employees and representatives assume no responsibility and/or liability in regard to either the design, construction or performance of the permitted facilities.

28. Any system alteration, including for augmentation into or withdrawal of water from the permitted system, other than as specifically authorized by this permit will require additional District permitting consideration. The water level of retention and detention ponds shall not be augmented by pumping or diversion of water into the ponds to artificially control their level above the design normal or beginning storage level. Wells and diversion facilities for such augmentation may require water use permitting according to Chapter 40D-2, F.A.C.

29. Information and reports required to be submitted by this permit shall be submitted to:

    Permits Data Group
    Southwest Florida Water Management District
    2379 Broad Street
    Brooksville, Florida 34609-6899

30. Construction of all water management facilities, including wetlands compensation, grading, mulching, planting of mitigation areas, etc. must be completed prior to beneficial occupancy of the project or operation of the surface water management system.

31. The excavation of retention/detention ponds is limited to the permitted design elevation(s).

32. The permittee shall notify the District within 30 days of the sale or transfer of ownership of land on which a surface water management system will be or is located, and request transfer of the permit to the new owner. A surface water management permit to construct or alter a system can be transferred if the new permittee agrees to the transfer and the permit has not expired. The District can transfer the operation phase permit provided the project has been properly completed, the new permittee meets the rule requirements for operation and maintenance entities and the land use remains the same.

ATTACHMENT B-8

EQUIPMENT LIST AND CONTACTS

EQUIPMENT VENDORS LIST

Contractors Listing:

1.	Electrical	Ashely Electric Company, Inc. 615 Morgan Road Winter Haven, FL 33880 (813)324-0929
2.	Metal Building	Whirlwind Building Systems 8234 Hansen Road Houston, TX 77075 (713)956-7140
3.	Plumbing	Graves Plumbing 15 South Seminole St. Ft. Meade, FL 33841 (863)285-8265
4.	Recycling Equipment	Florida Equipment and Machinery 8338 Epicenter Blvd. Lakeland, FL 33804 (941)984-3858
5.	Pumps	Barney's Pumps, Inc. P.O. Box 3529 Lakeland, FL 33802 (941)655-8500
6.	Septic System	Berns Septic Tank Company 3585 Highway 17 North Bartow, FL 33830 (941)533-7414
7.	Finisher Hardware	Cement Products and Supply Co. P.O. Box 12 Lakeland, FL 33802 (941)685-5141
8.	Overhead Doors	J.B. Mathews Corp. P.O. Box 608100 Orlando, FL 32860 (800)226-3667

9.	General Contractor	SEMCO Construction, Inc. 205 Century Blvd. Bartow, FL 33830 (941)533-7193

EQUIPMENT LIST

1.	Bobcat Loader 863	Bobcat of Tampa Bay (800-685-2987)
2.	Yale GC060T Fork lift	National Lift Truck Service (305-884-2005)
3.	Badger L 125S-4-11/8	Crigler Enterprises, Inc. (404-874-4401)
4.	Wire Tie System, 330	U.S. Wire Tie Systems (417-358-8322)
5.	Inclined Steel Belt Conveyor Rubber Belt Conveyor (20') Rubber Belt Conveyor (40')	Hustler Conveyor Systems (636-441-8600)
6.	Ford F700 Flat Bed Dump Truck	Atlantic Ford
7.	North Star GV Series Pressure Washer	
8.	Hydromatic Sump Pump	
9.	Dayton Loading Dock Sump Pump	
10.	Fire Extinguishers x 6	

Maintenance of equipment is performed in accordance with manufacturers maintenance schedule. In-house personnel perform light maintenance and repairs. Heavy maintenance and repair work is performed by Hardee County Public Works Maintenance Shop, or the outside vendor of the equipment.

Service and maintenance manuals are available in the office of the Material Recovery Facility for use when needed. Refer to the Operations Plan for the MRF equipment maintenance manuals.

SECTION C

PROHIBITIONS

C.1 SITING

The existing MRF has been permitted under the siting criteria of Rule 62-701.300(2), FAC. The existing MRF also fulfills the siting criteria as follows:

- Rule 62-701.300(2)(a), FAC: The underlying geologic formations are adequate to support the MRF. The structure has been in place since 1991, with little settlement associated with the foundation or geologic formation.

- Rule 62-701.300(2)(b), FAC: A potable water well is defined under Rule 62-701.200(93), FAC as any excavation that is drilled or bored, or converted from a non-potable water use, when the intended use of such excavation is for the location and acquisition of groundwater which supplies water for human consumption. A supply well is located within the fenced area of the maintenance facility; this well is not used for human consumption. Another supply well is also located in the vicinity of the MRF, but the well is not used for human consumption.

- Rule 62-701.300(2)(c), FAC: The existing MRF is not located in a dewatered pit.

- Rule 62-701.300(2)(d), FAC: The existing MRF is not located in an area with frequent and periodic flooding. A flood insurance rate map is located in Attachment B-9.

- Rule 62-701.300(2)(e), FAC: The MRF foundation is not located in the groundwater table.

- Rule 62-701.300(2)(f), FAC: The existing stormwater treatment pond for the MRF stormwater is located adjacent to the building. Although the stormwater treatment pond is within the 200 feet limit, all leachate from the MRF is collected and pumped to the permitted leachate holding tanks to prevent commingling of stormwater and leachate.

- Rule 62-701.300(2)(g), FAC: The MRF is not located on a right of way of any public highway, road, or alley.

- Rule 62-701.300(2)(h), FAC: A community water supply is defined under Rule 62-550.200(12), FAC as a public water system that serves at least 15 service connections used by year-round residents or regularly serves at least 25 year-round residents. There are no community water supply wells located within 1000 feet of the MRF.

C.2 BURNING

The County does not burn waste at the MRF. The County takes active steps to prevent the burning of waste including load inspections and stockpiling cover soil to smother any fire that might break out in the in-place waste.

C.3 HAZARDOUS WASTE

Hazardous waste is not accepted for disposal at the site. The MRF does not process hazardous waste.

C.4 PCB DISPOSAL

PCB's are not accepted for disposal at the site. The MRF does not process PCB waste.

C.5 BIOMEDICAL WASTE

Biomedical wastes are not accepted for disposal. The Hardee County Landfill has a Household Sharps Collection Program (permitted through the Florida Department of Health; Permit No. 25-64-00334), which allows citizens to deliver their biomedical waste products (needles) in approved sharps containers to the landfill. The sharps containers are collected and stored in a locked room at the Animal Control Facility located at the landfill. The sharps containers are then transported offsite, to the Hardee County Fire and Rescue Department where a private waste hauler disposes them in an approved facility.

If sharp containers are identified at the MRF, they are segregated immediately by MRF personnel and taken to the locked room at the Animal Control Facility adjacent to the MRF.

C.6 CLASS I SURFACE WATERS

There are no Class I surface waters within 3,000 feet of the MRF.

C.7 SPECIAL WASTE

Special wastes include lead-acid batteries, used oil, yard trash, white goods, and whole waste tires. These wastes are considered non-processable at the MRF. If special wastes are identified at the MRF, they are segregated and taken to the Household Hazardous Waste Collection Center (HHWCC) for storage until a certified vendor is contacted to retrieve the waste.

C.8 WASTE-TO-ENERGY FACILITIES RESTRICTIONS

These restrictions do not apply to this permit renewal.

C.9 LIQUIDS

Bulk liquids and non-containerized liquids are not accepted for disposal at the site.

C.10 USED OIL

Used oil, either commingled or mixed with solid waste, is not accepted for disposal at the site. Used oil generated by residents only, is collected and stored in containers in the HHWCC. The used oil is collected by a private waste disposal service for proper offsite recycling.

C.11 YARD TRASH

If yard waste is discovered at the MRF, it is segregated and diverted to the Yard Trash facility on site. Refer to the Landfill Operations Plan for the permitting requirements of the Yard Trash facility.

C.12 TANKS

The existing leachate storage tanks are permitted under the solid waste permit for the landfill.

C.13 INDOOR STORAGE

The MRF floors are composed of sealed concrete to facilitate maintenance and sanitation. The tipping floor and processing areas are sloped to promote drainage of leachate and residues toward the floor drains, which drain to a pumping station near the building. The pumping station pumps leachate to the storage tanks near the landfill. Processable waste is stored in the MRF for the permitted period of 72 hours.

C.14 VEHICLE STORAGE

Solid waste is not stored in vehicles at any time.

ATTACHMENT C-1

FLOOD MAP

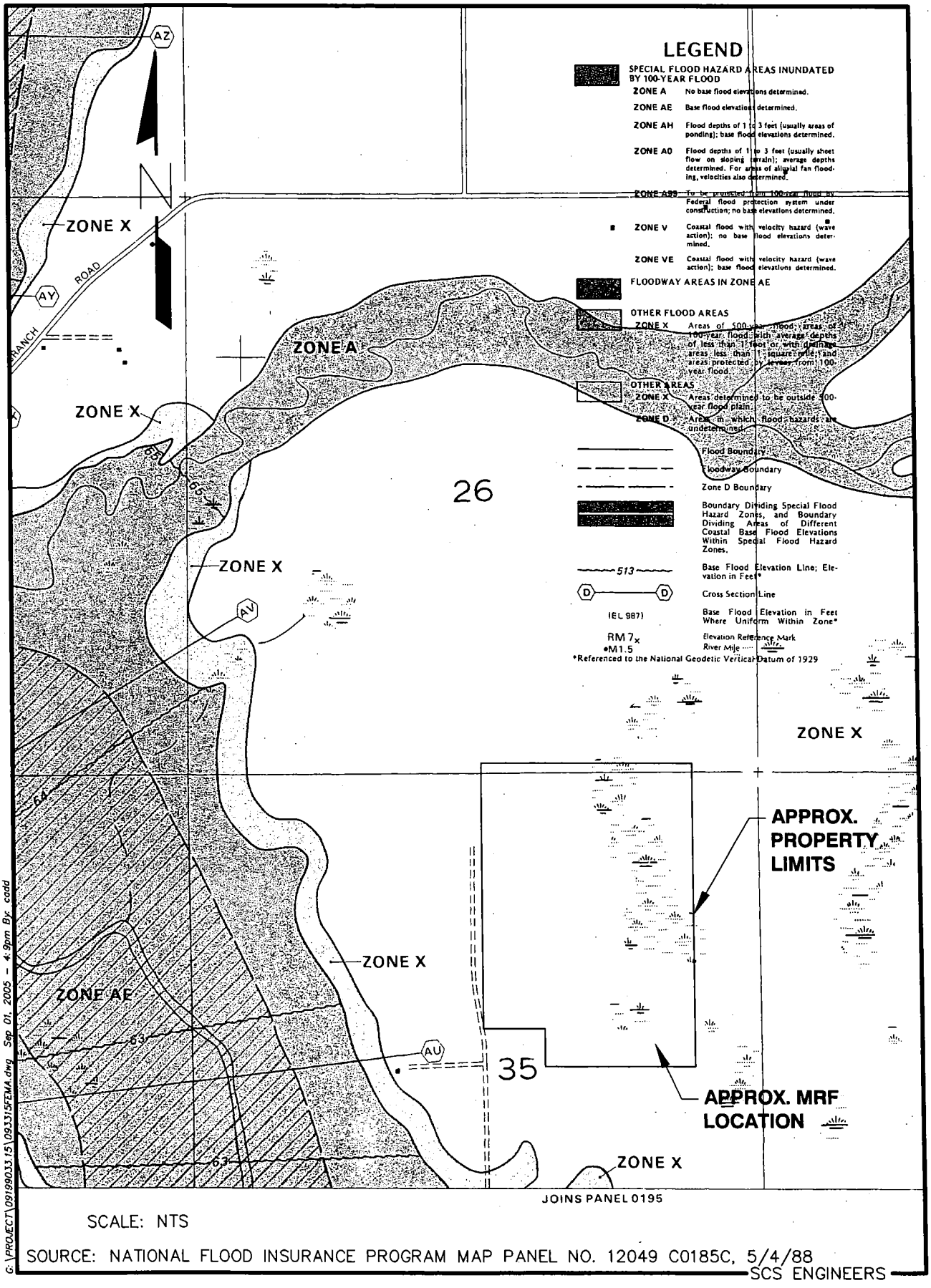


Figure C–1. Flood Insurance Rate Map, Hardee County Landfill
Hardee County, Florida.