

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 11-17-95 Subject LEACHATE HAULING TO WWTP

Time 10:36 A.M. Permit No. -

County HARDEE

M.S. JANICE WILLIAMSON Telephone No. 941-773-5089

Representing HARDEE COUNTY CF

[] Phoned Me [X] Was Called [] Scheduled Meeting [] Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

Summary of Conversation/Meeting _____

REQUESTED REASONS THE LANDFILL OPERATION WAS NOT HAULING MORE THAN 5000 GALS OF LEACHATE/WEEK AND NOT MORE THAN 2 DAYS/WK. SINCE OCT. 13, 1995 AFTER REVIEWING DAILY WATER BALANCE FOR OCTOBER.

JANICE INFORMED ME THAT THE TRUCK WAS IN FOR REPAIR FOR 3 WEEKDAYS AND AN EMPLOYEE LICENSED TO DRIVE THE HAULING TRUCK WAS OUT ON DISABILITY AND THE COUNTY CANNOT REPLACE HIM WHILE ON DISABILITY. THEY UTILIZE ANOTHER COUNTY LICENSED DRIVER WHEN AVAILABLE. IN NOVEMBER TO DATE THEY ARE HAULING ALMOST DAILY EXCEPT FOR WEEKENDS. THE GAFF GAUGE READING AS OF 11-16-95 WAS 82.86'

(continue on another sheet, if necessary)

Signature Robert J. Austin

Title P.E. III

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

186828

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Hardee County Solid Waste Date 2-26-92

Address PO Drawer 1749 Wauchula 33873 Dollars \$ 100.00

Applicant Name & Address same 1.

Source of Revenue Hardee County Sanitary Landfill

Revenue Code 1070 Application Number WT 25-209268

ck #
9032

By Letty Carner

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

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9032

By Letty Carner

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

192424

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Alford County Date 6-3-92
Address PO Drawer 1749 Wauchoke Dollars \$ 10,000.00
Applicant Name & Address Alford Ed Co Comm
Source of Revenue Alford Co. Regional Landfill
Revenue Code 1056 Application Number 5025-214306
OK 3729 By Alvin King

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

192424

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Address PO Drawer 1749 Wauchoke Dollars \$ 10,000.00
Applicant Name & Address Alford Ed Co Comm
Source of Revenue Alford Co. Regional Landfill
Revenue Code 1056 Application Number 5025-214306
OK 3729 By Alvin King

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

192219

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Hardee Co. L & Co. Comm Date 5-5-92

Address PO Drawer 1749 Wauchua Dollars \$ 100.00

Applicant Name & Address SAME

Source of Revenue Hardee Co. Sanitary Landfill

Revenue Code 1055 Application Number SC25-212896

By Litty Carter

ch#
3543

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

192219

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Hardee Co. L & Co. Comm Date 5-5-92

Address PO Drawer 1749 Wauchua Dollars \$ 100.00

Applicant Name & Address SAME

Source of Revenue Hardee Co. Sanitary Landfill

Revenue Code 1055 Application Number SC25-212896

By Litty Carter

ch#
3543



Lawton Chiles
Governor

Florida Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

DATE: 11-15-95

TIME: 9:00 A.M.

SUBJECT: HARDEE COUNTY LANDFILL

A T T E N D E E S

Name	Affiliation	Telephone
<u>ROBERT BUDERA</u>	<u>FDEP</u>	<u>744-6100 - X451</u>
<u>SUSAN PELZ</u>	<u>FDEP</u>	<u>744-6100 x 386</u>
<u>STEVE MORGAN</u>	<u>FDEP</u>	<u>744-6100 x 385</u>
<u>Danielle Nichols</u>	<u>FDEP</u>	<u>X375</u>
<u>Ed Hilton</u>	<u>PBS & J</u>	<u>407-647-7275</u>
<u>J.R. Prestridge</u>	<u>HARDEE CO.</u>	<u>813-7735089</u>
<u>Janice Williamson</u>	<u>"</u>	<u>"</u>
<u>Allison Amram</u>	<u>FDEP</u>	<u>813/744-6100 x 336</u>
<u>Walter B. Olliff, Jr.</u>	<u>HARDEE Co</u>	<u>813-773-6952</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

Handee Co LF

11/15/95

want to put stabilized (sodded) intermediate cover on
North portion of LF - no permit mod req'd
want to discharge stormwater off-site \Rightarrow NPDES permit
currently ^{surface water} discharges off-site

NPDES req'd because want to discharge off the LF area
want to discharge leachate from ditch to surface water
would need NPDES permit for this anyway

Next gwa report due March 1997 - biennial
closing 4th side -

Option 1 - close off just ~~north~~^{south} of ditch - can fill ditch
in w/waste
close off spray irrigation

may want to expand into south area - setbacks -
3000 ft of class I
surface water, 200 ft from wetland/other surface water
except if have leachate controls

If expand south of the existing area = lateral expansion
need to meet current design regulations

Hardee Co Meeting Notes

11/15/95

Short-Term Goals

1 1/2

Susan SP
Bob EB
Steve SU
File

- Stormwater Diversion - want to keep it out of the leachate. Need intermediate, stabilized cover - plan to test depth of cover (boring). Sod. No permit mod needed.

- New topo of LF done.

- Need to figure out how to move leachate from the working face to the leachate ditch.

- Change to stormwater: once they give intermed. cover + shed to stormwater, NPDES needed. As long as a berm was separating LF from stormwater - no NPDES permit needed.

Also - long term - may want to discharge water from the leachate ditch + would then need an NPDES permit

- GW Eval - no longer annual - next report due 3/97 (prior to permit renewal; expires 6/97)

- Leachate sprayfield - PBS+J wants to close. Then collect leachate from under drains. What would they

do w/ that area then?

Susan - Prior to closing ditch - put leachate collection line

- Sprayfield area - would be able to use for a LF if line in accord w/ current req.

- SC - other permit for mixing, leachate together. Discussed leachate tank types, 2' containment - hauling vols. ~~makes~~ may vary - will need a backup disposal agreement.

- Daily cover - could use shredded tires on flat areas. Now they use tarps on sides, dirt on top.

- LF is on the top left of 'bales' - still have 7 years life N. of ditch - 10-11 months left on the open area now. Then will close N. side.

\$32/ton - Class I

\$50/yr each home

change to commercial - sliding scale

A. Amram

**HARDEE COUNTY LANDFILL
SHORT AND LONG RANGE ISSUES OF CONCERN FOR
DISCUSSION WITH TAMPA, FEDP
NOVEMBER 1995**

BACKGROUND

The Hardee County Landfill is constructed utilizing a flexible membrane liner (FML) that serves to limit lateral migration of leachate. The FML is anchored into a clay soil base to limit vertical migration of the leachate. The FML has been placed in a manner to create a "horseshoe" shaped area that is open to the environment on the south side. Within the area are the landfill, the spray irrigation area, and the leachate containment ditch.

All rainfall that lands within the FML area is currently required to be diverted to the leachate containment ditch. The spray irrigation field is underlain with a drainage system that collects ground water and pipes it to the leachate containment ditch. The containment ditch is constantly being recharged with surface and/or sub-surface water. The County has been delivering tanker loads of the liquid to a waste water treatment plant as well as spraying the liquid over the irrigation field at the landfill.

The Tampa office of the Florida Department of Environmental Protection (TFDEP) has a standing concern with the open sided FML condition, and would like to see the County close the open side of the system. Doing this will provide a level of containment to protect the ground water outside of the system that does not currently exist. However, it will not relieve the excess water condition. The only way to reduce the impact of the storm water is to divert the rainfall away from the leachate containment ditch and into the on-site storm water management system. To discharge the storm water from the site, the County must obtain an NPDES permit.

SHORT TERM ACTIONS

The County has accepted pbs&j'S proposal to assist Mr. Prestridge and the Solid Waste Staff in the development of a plan to present to TFDEP that will provide a means of separating the storm water on the active landfill area from leachate. To accomplish this the following assumptions are made and need to be confirmed by TFDEP:

- at least one foot of soil over the waste will be required with a grassed cover established to divert the storm water.
- grade the site to drain storm water to the storm water management system and to drain leachate to the leachate management system.
- a permit modification is not required (the purpose of the work is to confirm proper cover depth and to clarify drainage control).

To obtain the appropriate permit (NPDES) that will allow discharge of the storm water from the site

the following will be required:

- prepare a Pollution Prevention Plan
- prepare and submit a permit application *TO ID (EACG)*
- train the on-site operators
- monitor the runoff

Other items that must be addressed following resolution of these issues are as follows:

- prepare and submit the ground water monitoring annual report to FDEP
- develop a plan to close the open side of the landfill area and obtain FDEP permission to construct the barrier (where should the FML barrier be located?) *PERMITS BY AP (HWH)*
- redesign and construct a modification to the leachate collection pipe system, providing for temporary storage of leachate (likely in tanks) and obtain FDEP permission to construct the system
- plug the under drain system that is under the spray irrigation field *SS WASTED*
- remove all water in the leachate containment ditch and fill the ditch with soil to prevent further accumulation of liquid
- eliminate the spray irrigation field which will require that all leachate collected be taken to a treatment facility *IS REQUIRED TO*
- find a source of soil to be used for *SHIPPED TO* daily and intermediate cover

LONG TERM ACTIONS

At a point in the future, the County will need to be prepared to design the closure plan and to provide for construction of the closure capping system. The County will be responsible to monitor and maintain the closed landfill for thirty (30) years based on current regulations.

The County must address future waste disposal. Issues related to this may include the following:

- can a new disposal area be located where the spray irrigation area currently exists?
- if it can be used, can the development approach currently use be applied in that area (FML "slurry" wall tied to clay base)?

Other alternatives available to the County include:

- purchase of addition property at the existing site for long term use as a solid waste management facility
- buy a new site at a different location for long term use as a solid waste management facility
- build a transfer station and haul waste to a disposal facility outside of Hardec County
- build and operate a regional landfill facility and charge appropriate fees to outside users
- contract with private companies to carry out any of the above or continue to operate the facility with County staff
- evaluate other processes for waste management

bi-annual; due 3/97 (permit exp 6/97)

if how can be short term?

No
DOUBLE CHECK

YES

NOTICE OF MEETING

Today's date: 11-6-95 Writer: R. BUTERA

Date of meeting: 11-15-95

Time: 9:00 A.M.

Place: WCR

Subject: STORMWATER MGMT. - HARDEE CTY. - LF
SIGORT TERM / LONG-TERM.

Explanation: _____

Requested by: ED HILTON / PBS+J. Ph.# 407-647-7275

Names of attendees other than DER: J.R. PRESTIDGE, ED HILTON, JANILE?

Local Program notified: yes no Attending? _____

Copies to anticipated in-house attendees: SUSAN PETA
ALLISON AMMAN
R. BUTERA

Information copies to: _____



TELECOPY TRANSMISSION

ORLANDO SOLID WASTE DIVISION

Phone: 407/647-7275
Fax: (407)647-8945

Job Number: _____

Date: 11/14/95

Sending To: Bob Butera

Office: DEP Tampa

Fax #: _____

Originator: Ed Hilton Office: _____

Transmit Date/Time: _____

Total Number Of Pages (Cover Sheet Included): 3

Remarks: For the next meeting

If you have trouble receiving this transmission,
please call _____ at extension _____

**HARDEE COUNTY LANDFILL
SHORT AND LONG RANGE ISSUES OF CONCERN FOR
DISCUSSION WITH TAMPA, FEDP
NOVEMBER 1995**

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The Tampa office of the Florida Department of Environmental Protection (TFDEP) has a standing concern with the open sided FML condition, and would like to see the County close the open side of the system. Doing this will provide a level of containment to protect the ground water outside of the system that does not currently exist. However, it will not relieve the excess water condition. The only way to reduce the impact of the storm water is to divert the rainfall away from the leachate containment ditch and into the on-site storm water management system. To discharge the storm water from the site, the County must obtain an NPDES permit.

SHORT TERM ACTIONS

The County has accepted pbs&j's proposal to assist Mr. Prestridge and the Solid Waste Staff in the development of a plan to present to TFDEP that will provide a means of separating the storm water on the active landfill area from leachate. To accomplish this the following assumptions are made and need to be confirmed by TFDEP:

- NO*
- at least one foot of soil over the waste will be required with a grassed cover established to divert the storm water.
 - grade the site to drain storm water to the storm water management system and to drain leachate to the leachate management system.
 - a permit modification is not required (the purpose of the work is to confirm proper cover depth and to clarify drainage control).

To obtain the appropriate permit (NPDES) that will allow discharge of the storm water from the site

the following will be required:

- prepare a Pollution Prevention Plan
- prepare and submit a permit application
- train the on-site operators
- monitor the runoff

Other items that must be addressed following resolution of these issues are as follows:

- not done until March 1997* —
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DISCARD
IF YOU HAVE
THESE NOTES
IN FILE
HARRIS COUNTY RB.

11-15-95

9:00 A.M.

- COVER SLOPES - STABILIZE SLOPES
INTERMEDIATE COVER ON NORTH SIDE.

- NPDES PERMIT - EPA - 6 mos.

ADDING STORMWATER TO EXISTING SYSTEM

- WANTS TO DISCHARGE TO SURFACE WATER - SAMPLE & DISCHARGE.

- DUE MAR. 1997 - SWMP - BIENNIAL.

- SUGGEST LINING SOUTH SIDE OF TRENCH - INSTALL LGS IN
TRENCH AND USE FOR DISPOSAL.

- SL - for SW-0 - Small County Reduction # 290

- LEACHATE TANKS - NO BOTTOM PENETRATIONS.

~~200-888~~



TELECOPY TRANSMISSION

*Discuss
w/ Sid.*

ORLANDO SOLID WASTE DIVISION

Phone: 407647-7275
Fax: (407)647-8945

Job Number: _____

Date: 11/14/95

Sending To: Bob Butera

Office: DEP Tampa

Fax #: _____

Originator: Ed Hilton Office: _____

Transmit Date/Time: _____

Total Number Of Pages (Cover Sheet Included): 3

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COMMUNICATION MEMORANDUM

DATE-TIME: 10/10/95-1658
MEMO BY: Lee Smith
WITH: Walter Olliff
PHONE: 941-773-4478
REPRESENTING: Hardee County Commission
SUBJECT: Illegal dumping of residuals; Landfill leachate question

MESSAGE: I called Mr. Olliff to follow up with him about his comments made at a Reality Check Workshop on May 23, 1995. The project number assigned to his comments is 95-RC472D. OMB routed this project to the Division of Waste Management, which forwarded it to the Division of Water Facilities on September 25.

Mr. Olliff stated that Hardee County has experienced longstanding problems with illegal dumping of domestic wastewater residuals that are hauled from St. Petersburg. He said that DEP inspectors don't visit the sites very often, and he feels that this is contributing to the dumping problem. I agreed with him that the District Offices are short on staff for the workload that they have, and that it would be very desirable for them to visit the sites more often. I offered to arrange a site visit for any sites that he feels are currently a problem, but he did not identify any sites that are currently of concern. Mr. Olliff attributed the comments made at the workshop to a Mr. Minor Bryant (phone # 941/773-9131), who was also present at the workshop. After I spoke with Mr. Olliff, I left two messages for Mr. Bryant to call me if he would like any follow-up on the workshop. As of 10/25/95, he has not called me back.

Although Mr. Olliff didn't request any assistance with residuals issues, he did ask for help with problems that a county landfill is having with leachate disposal. He expressed dissatisfaction with responses that he has had to date from the Tampa District Office, and he wants to discuss the situation with someone in Tallahassee. I told him I will have someone from the solid waste program in Tallahassee contact him. Mary Jean, would you please have somebody contact Mr. Olliff? Thanks.

cc: Richard Drew
Mary Jean Yon
Elsa Potts
Linda Frohock
Michael Hickey

JENCO
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AILS

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MPA.
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TEVEN /
LORIDA

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AR2001

DEPARTMENT OF ENVIRONMENTAL PROTECTION
REGULATING AND TRANSMITTAL SLIP

TO: (NAME, OFFICE, LOCATION) 3. _____
1. Kathy Anderson 4. _____
2. Solid waste - TAL 5. _____

PLEASE PREPARE REPLY FOR:
 SECRETARY'S SIGNATURE
 DIV/DIST DIR SIGNATURE
 MY SIGNATURE
 YOUR SIGNATURE
 DUE DATE _____

ACTION/DISPOSITION
 DISCUSS WITH ME
 COMMENTS/ADVISE
 REVIEW AND RETURN
 SET UP MEETING
 FOR YOUR INFORMATION

 HANDLE APPROPRIATELY
 INITIAL AND FORWARD
 SHARE WITH STAFF
 FOR YOUR FILES

COMMENTS:
Hardee Co LF
leachate spray field
Record Drawings. (4-12-94)
for your files.

FROM: Susan Pelz DATE: 10/28/95 SC 542-6100
PHONE: X386

DEP 15-026 (12/93)

RECEIVED
REGULATION
SEP 12 1994
BY
SOUTHWEST DISTRICT
Environmental Protection

County: Hardee

posal system

67,000

re: 95 Acres

ees: \$ 32 /Ton

heads.

y 1, 1994

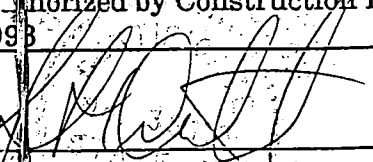
uchula, FL

94

l above, the construction of the
horized by Construction Permit

No.: S025-214 306 Dated: November 29, 1993

Date: 9/6/94


Signature of Professional Engineer
Steven A. Dutch

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

CERTIFICATION OF CONSTRUCTION COMPLETION
OF A SOLID WASTE MANAGEMENT FACILITY

RECEIVED
SEP 12 1994
BY SOUTHWEST DISTRICT
Environmental Protection

DER Construction Permit No.: SO 25-214306 County: Hardee

Name of Project: Hardee County Sanitary Landfill

Name of Owner: Hardee County

Engineer: Wade-Trim

Type of Project: Modifications to leachete disposal system

Cost: Estimated \$ 100,000 Actual \$ 67,000

Site Design: Quantity: 41 ton/day Site Acreage: 95 Acres

Population: 22,600 Dumping Fees: \$ 32 /Ton

Deviations from Plans and Application Approved by DER: _____

Installation of in line filters to prevent clogging of irrigation heads.

Water Monitoring Data Submitted to DER, Date: July 1, 1994

Address and Telephone No. of Site: Airport Road, Wauchula, FL

Name(s) of Site Supervisor: J.R. Prestridge

Date Site Inspection is requested: September 21, 1994

This is to certify that, with the exception of deviation noted above, the construction of the project has been completed in accordance with the plans authorized by Construction Permit No.: S025-214 306 Dated: November 29, 1993

Date: 9/6/94

Signature of Professional Engineer
Steven A. Dutch ORID



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

Hardee County Board of County Commissioners
Mr. J.R. Prestridge, Assistant County Manager
413 West Orange Street
Wauchula, Fl. 33873

September 12, 1995

RE: Small County and Municipalities Reduced Permit Fees

Dear Mr. Prestridge:

This letter is to notify you that pursuant to the Laws of Florida, Chapter 94-278, filed May 27, 1994 (attached), Hardee County may qualify for reduced permit processing fees. To be considered for the reduced processing fee, for each permit application the following information must be submitted:

1. A specific request the reduced permit processing fee;
2. An appropriate local government official (e.g. Chairman of the BOCC, County Administrator, etc.) must specifically refer to the Laws of Florida Chapter 94-278 and must explicitly certify that the (non-reduced) cost of the permit processing fee is a fiscal hardship due to one of the following factors:
 - a. Per capita taxable value is less than the statewide average for the current fiscal year;
 - b. Percentage of assessed property value that is exempt from ad valorem taxation is higher than the statewide average for the current fiscal year;
 - c. Any condition specified in section 218.503, Florida Statutes, that determines a state of financial emergency;
 - d. Ad valorem operating millage rate for the current fiscal year is greater than 8 mills; or
 - e. A financial condition that is documented in annual financial statements at the end of the current fiscal year and indicates and inability to pay the permit processing fee during that fiscal year.

If the county/municipality qualifies for the reduced fees, permit fees which are greater than \$100 will be reduced to \$100, and permit fees which are \$100, or less will be waived. If you have any questions, please contact me at the above address or (813) 744-6100, extension 386.

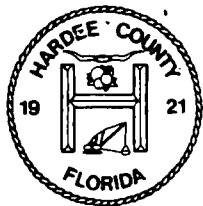
Sincerely,

Susan J. Pelz, E. I.
Solid Waste Section
Division of Waste Management

sjp
Attachment

cc: Janice Williamson, Hardee County Solid Waste Dept., P.O. Box 246, Wauchula, Fl. 3387
Robert Butera, P.E., FDEP Tampa, w/o attachment
Steve Morgan, FDEP Tampa, w/o attachment
Allison Amram, P.G., FDEP Tampa, w/o attachment

"Protect, Conserve and Manage Florida's Environment and Natural Resources"



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

SP 8/6
AA AA 9/6

Page 1 of 2

August 25, 1995

Department of Environmental Protections
Attention: Bob Butera
Solid Waste Section
3804 Coconut Palm Drive
Tampa, Fl 33619-8318

RECEIVED
AUG 31 1995

Department of Environmental Protection
SOUTHWEST DISTRICT

By: _____

RE: Notification on Dewatering Ditch Level

Dear Mr. Butera:

On this date we contacted you by phone to give notice of the high water situation in Hardee County Landfill. The spray evaporation system and the hauling of water to treatment will not keep up due to the abnormal rain fall and summer storms. Our maximum allowance for hauling this water to a treatment facility is 25,000 gallons per day. Although we will continue to do this it is not a solution to the immediate problem. Therefore, we requested to test the water for Class III water standards; if it meet those standards to release some of the water to the storm water management system. The conclusion of the conversation was to contain the water in the ditch and back the water up into the landfill.

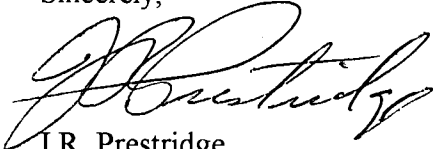
As per that conversation we are submitting the daily water balance for the month of August up to today's date. In addition we are submitting the monthly water elevations that were done on August 22, 1995.

Future plans and corrective action for the management of leachate will include intermediate or final closure of the North part of the landfill; filling in the collection ditch and eliminating the spray field; lining the south side of the landfill and connecting the under drains to a holding tank. Our engineering firm is presently working on a proposal for the above mentioned.

Page 2 of 2

We will keep you notified of any significant changes in our conditions. Please feel free to contact us should you have any further questions or advice.

Sincerely,

A handwritten signature in black ink, appearing to read 'J.R. Prestridge', written in a cursive style.

J.R. Prestridge
Assistant County Manager
Solid Waste Superintendent

jw

CC: County Manager, Gary Oden
Post, Buckley, Schue and Jerrinagan - Ed Hilton
file

HARDEE COUNTY SOLID WASTE DEPARTMENT
DAILY WATER BALANCE

DATE	AIR TEMP.	WIND SPEED M.P.H.	HUMIDITY	RAIN FALL INCHES	RAIN FALL GALLONS	STAFF GAUGE ELEVATION	ESTIMATED GALLONS STORED	GALLONS PUMPED THROUGH SPRAY FIELD	EVAPORATION RATE	GALLONS EVAPORATED	GALLONS SENT TO TREATMENT	OTHER
8/1/95	74	10	75	0	0	81.51	1,491,332	105,462	8.50%	8,964	15,000	0
8/2/95	CLOSED	---	---	2.00"	89,596	---	---	0	N/A	0	0	0
8/3/95	75	15	80	0	0	82.26	1,691,779	105,462	12.00%	12,655	0	0
8/4/95	90	10	65	0	0	82.21	1,678,414	105,462	13.00%	13,710	0	0
8/5/95	89	3	50	0	0	82.19	1,673,072	105,462	10.00%	10,546	0	0
8/6/95	CLOSED	---	---	---	---	---	---	0	N/A	0	0	0
8/7/95	90	5	60	0	0	82.11	1,651,688	105,462	9.00%	9,492	0	0
8/8/95	93	4	49	0	0	82.08	1,643,673	105,462	10.00%	10,546	25,000	0
8/9/95	93	6	48	0	0	82.06	1,638,327	105,462	14.00%	14,765	25,000	0
8/10/95	90	8	60	1.20"	53,757	82.04	1,632,981	41,280	13.00%	5,366	0	0
8/11/95	91	5	40	0	0	82.08	1,643,673	105,462	13.00%	13,710	25,000	0
8/12/95	90	3	60	4.00"	179,192	83.26	1,959,039	82,560	7.50%	6,192	25,000	0
8/13/95	CLOSED	---	---	.10"	4,480	---	---	0	N/A	0	0	0
8/14/95	91	7	49	0	0	83.21	1,945,674	105,462	15.00%	15,819	25,000	0
8/15/95	98	5	50	0	0	83.18	1,937,659	105,462	14.00%	14,765	25,000	0
8/16/95	96	4	60	0	0	83.06	1,905,587	105,462	9.00%	9,492	25,000	0
8/17/95	93	3	60	0	0	82.94	1,873,515	105,462	8.00%	8,437	25,000	0
8/18/95	95	2	50	0	0	82.84	1,846,789	82,560	8.00%	6,605	25,000	0
8/19/95	96	2	50	0	0	82.68	1,804,029	82,560	8.50%	7,018	25,000	0
8/20/95	CLOSED	---	---	.90"	40,318	---	---	0	N/A	0	0	0
8/21/95	93	4	45	0	0	82.81	1,838,770	82,560	11.00%	9,082	25,000	0
8/22/95	93	2	60	1.60"	71,676	83.2	1,943,001	82,560	7.00%	5,779	25,000	0
8/23/95	81	6	70	.50"	22,399	83.21	1,945,674	82,560	7.50%	6,192	25,000	0
8/24/95	82	7	60	.20"	8,960	83.29	1,967,058	82,560	9.50%	7,843	25,000	0
8/25/95	80	5	100	2.40"	107,515	83.67	2,068,616	82,560	4.00%	3,302	25,000	0
8/26/95												
8/27/95												
8/28/95												
8/29/95												
8/30/95												
8/31/95												
TOTAL												

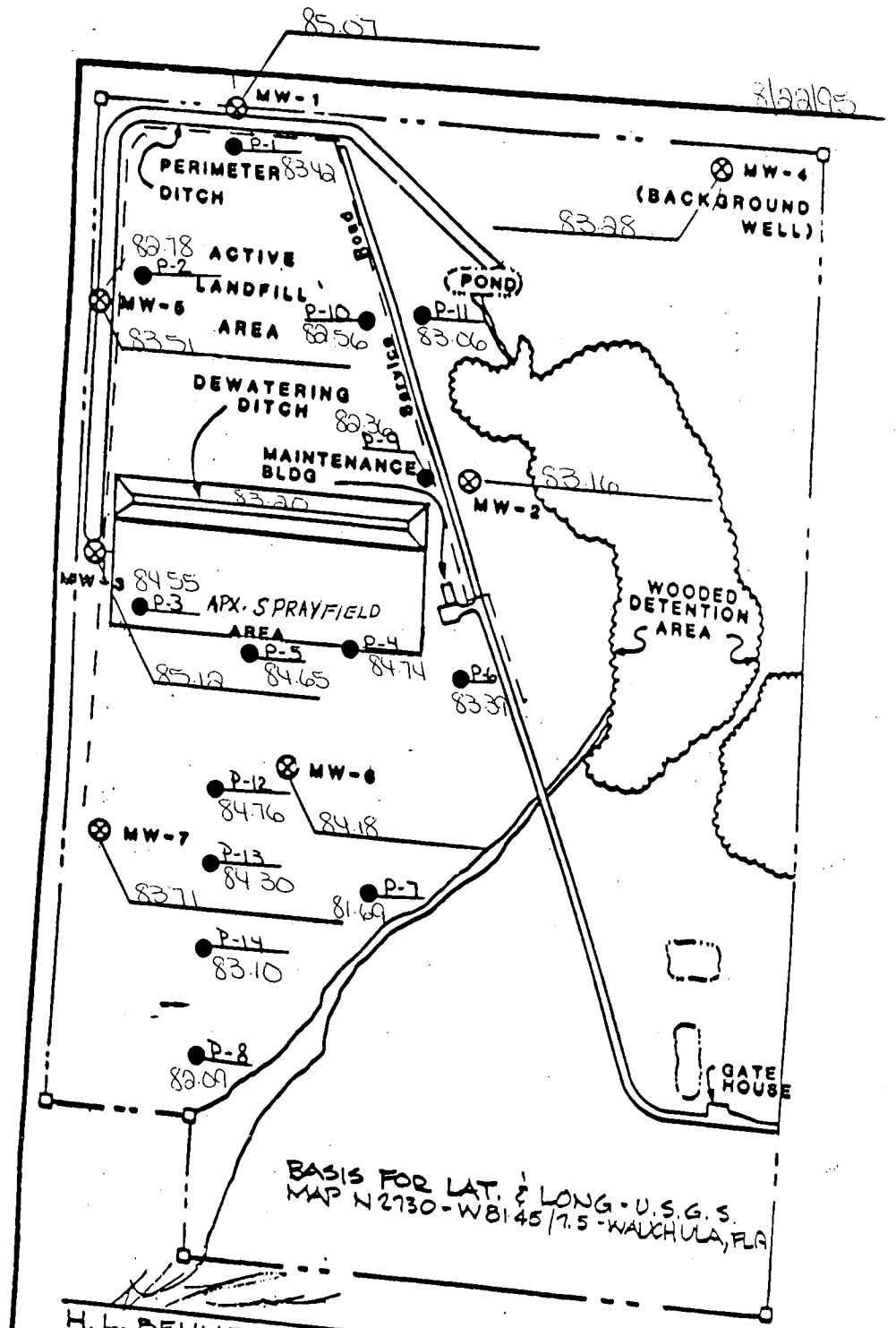
**HARDEE COUNTY SANITARY LANDFILL
MONTHLY GROUNDWATER ELEVATIONS**

DATE: AUGUST 22, 1995

RECORDED BY: S. STRICKLAND-J. Hutto

LOCATION	ELEVATION TOP OF CASING	ELEVATION AT LAND SURFACE	HEIGHT OF CASING ABOVE L.S.	WATER DEPTH FROM TOP OF CASING	GROUNDWATER ELEVATION
MW-1	87.97	86.24	1.73	2.90	85.07
MW-2	85.86	83.75	2.11	2.70	83.16
MW-3	87.75	85.99	1.76	2.63	85.12
MW-4	87.16	84.09	3.07	3.88	83.28
MW-5	88.76	85.83	2.93	5.25	83.51
MW-6	87.94	84.59	3.35	3.76	84.18
MW-7	87.51	84.43	3.08	3.80	83.71
*****	*****	*****	*****	*****	*****
P-1	91.27	89.89	1.38	7.85	83.42
P-2	90.66	87.83	2.83	7.80	82.78
P-3	89.05	86.72	2.33	4.50	84.55
P-4	88.34	86.01	2.33	3.60	84.74
P-5	89.25	86.43	2.82	4.60	84.65
P-6	85.94	83.64	2.30	2.55	83.39
P-7	84.04	81.91	2.13	2.95	81.69
P-8	84.74	82.65	2.09	2.65	82.09
P-9	87.06	85.12	1.94	4.70	82.36
P-10	88.56	87.01	1.55	6.00	82.56
P-11	87.16	85.03	2.13	4.10	83.06
P-12	88.71	85.72	2.99	3.95	84.76
P-13	87.60	84.59	3.01	3.30	84.30
P-14	86.75	83.73	3.02	3.65	83.10

WATER ELEVATION IN THE DEWATERING DITCH: 83.20



H. L. BENNETT, P.L.S.
FLA. REG No. 3403

MONITOR WELL LOCATION
REGIONAL SANITARY LANDFILL, HARDEE,

RB RA
AA 8/28

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 8/28/95

Subject Handee Co leachate

Time 140p

Permit No. _____

County Handee

M Ed Hilton

Telephone No. 407-647-7275

Representing PBSJ

[] Phone Me Was Called [] Scheduled Meeting [] Unscheduled

Other Individuals Involved in Conversation/Meeting _____

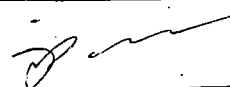
They are coming up with a plan for closing north slope.
They are discussing isolating LCS & remove ditch system
Isolating LCS - terminate discharge to ditch
route to pump station then ^{truck} to off-site disposal

Will give them proposal for "interim closure" by this week.

He said they have discussed ~~elim~~ lining 4th side &
eliminating trench, and temporary closure to
run stormwater off of LF.

I told him good intermediate cover on A rain cell
are good ideas to run stormwater off.

(continue on another
sheet, if necessary)

Signature 

Title ED

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 8-25-95 Subject Hardee Co LF - Leachate Volume

Time 12 Permit No. _____

County Hardee

M JR Prestidge Telephone No. _____

Representing Hardee Co Solid Waste

Phoned Me Was Called Scheduled Meeting Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting Janice, Bob Butera, Steve Morgan, Allison Amman JRP

Summary of Conversation/Meeting _____

JR called to let us know that the leachate ditch is very full. Inquired about options. He didn't think that the ditch would overflow, but his gradient will become outward if he can't remove more leachate. He can only haul 25K/day to the WWTP. JR asked about discharging to their stormwater system. We thought it would be best to contain it in the landfill & ditch where there are monitoring devices. Hardee Co does not have an NPDES permit, but their stormwater pond discharges -- I think to a wetland. Hardee Co. will send us a letter on how they intend to correct

(continue on another sheet, if necessary)

Signature _____

Title _____

PA-01 the problem. Long-term solutions are in the budget, Ed
1/93 Hilton of PBS+J is working on: ① closure of N. side LF
hjs ② leachate mgt - use underdrains + pump to tank ③ close
leachate intercept ditch ④ install liner on 4th side
of landfill.



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____

Interoffice Memorandum

PERMIT COVER MEMO

TO: WS RICK GARRITY, DDM
 _____ WILLIAM KUTASH, ENV. ADM.
 _____ OGC, ATTN: _____

FROM/THROUGH:

Bob Butera WS 8-24-95, ENVIRONMENTAL ADMINISTRATOR
 _____, PROGRAM SUPERVISOR
 _____, SECTION SUPERVISOR
Allison Antram, ENG, ENV SPEC, GEOLOGIST AA

DATE: 8-24-95

FILE NAME: Hardee Co Solid Waste CASE #: 5025-214306
 PROGRAM: Solid Waste COUNTY: Hardee

TYPE OF PERMIT ACTION: _____ ISSUE _____ DENY MODIFY
 _____ TRANSFER OWNER _____ NOD _____ INTENT _____ PUBLIC NOTICE

PUBLIC NOTICE PERIOD CLOSED? _____
 PETITION? _____ RELEASED BY OGC?

PERMIT SUMMARY: Modification of leachate & groundwater
sampling frequencies & parameters to comply
w/ 62-701.510.

PROFESSIONAL RECOMMENDATION: APPROVE _____ DENY

EVALUATION SUMMARY: _____

DAY 90/30 FOR THIS ACTION IS _____



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

AUG 24 1995

PERMITTEE
Mr. J.R. Prestridge, for
Hardee County Board of
County commissioners
412 West Orange Street
Wachula, Florida 33873-2867

RE: Modification to existing operation
Permit No. **SO25-214306**, Hardee County
Hardee County Solid Waste Disposal Facility

Dear Mr. Prestridge:

We are in receipt of your request for permit modifications for groundwater and leachate monitoring for solid waste operational permit No. **SO25-214306** at the Hardee County Solid Waste Disposal Facility. The following conditions have been modified.

<u>SPECIFIC CONDITIONS</u>	<u>FROM</u>	<u>TO</u>	<u>TYPE OF MODIFICATION</u>
#37	Existing	Amended	Leachate Sampling
#41	Existing	Amended	Groundwater Monitoring Parameters
#45	Existing	Amended	Water Quality Reporting
#46	Existing	Amended	Groundwater Monitoring Plan Evaluation

In addition, the FDEP rule references have been renumbered from Chapter 17 to Chapter 62. These changes have been made in this permit modification. This letter and its attachments constitute a complete permit and replace all previous permits and permit modifications for the above referenced facility.

Sincerely,

Richard D. Garrity, Ph.D.
Director of District Management
Southwest District

RDG/aa
Attachments



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

PERMITTEE

Hardee County Board of
County Commissioners
Mr. James Harrison
Chairman
412 West Orange Street
Wauchula, FL 33873-2867

PERMIT/CERTIFICATION

GMS ID No: 4025C30001
Permit No: SO25-214306
Date of Issue: 11/29/93
Expiration Date 6/10/97
County: Hardee
Lat/Long: 27°34'10"
81°47'01"
Sec/Town/Rge: 35/33S/25E
Project: Hardee County
Solid Waste
Disposal Facility

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-3, 62-4, 62-25, 62-160, 62-522, 62-550, 62-701, and 62-711. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the department and made a part hereof and specifically described as follows:

To operate a solid waste Class I sanitary landfill and related facilities (approximately 95 acres), referred to as Hardee County Solid Waste Disposal Facility, subject to the specific conditions attached, disposing of solid waste, near Airport Road and S.R. 64A, northeast of Wauchula, Hardee County, Florida. The specific conditions attached are for the construction of:

1. Class I Landfill Disposal Facility
2. Construction and Demolition Debris Disposal Facility
3. Waste Tire Storage & Processing Facility

Replaces Permit No.: SO25-096551

This permit contains compliance items summarized in Attachment 1 that shall be complied with and submitted to the Department by the dates noted. If the compliance dates are not met and submittals are not received by the Department on the dates noted, enforcement action will be initiated.

Hardee County Solid Waste Disposal Facility

GENERAL CONDITIONS

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403-859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

Hardee County Solid Waste Disposal Facility

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

- (a) Have access to and copy any records that must be kept under conditions of the permit;
- (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

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

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

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

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

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

GENERAL CONDITIONS:

11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300, Florida Administrative Code, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
 - (a) Determination of Best Available Control Technology (BACT)
 - (b) Determination of Prevention of Significant Deterioration (PSD)
 - (c) Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
 - (d) Compliance with New Source Performance Standards
14. The permittee shall comply with the following:
 - (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
 - (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
 - (c) Records of monitoring information shall include:
 1. the date, exact place, and time of sampling or measurements;
 2. the person responsible for performing the sampling or measurements;
 3. the dates analyses were performed
 4. the person responsible for performing the analyses;
 5. the analytical techniques or methods used;
 6. the results of such analyses.

PERMITTEE: Hardee County BCC

PERMIT no.: SO25-214306

Hardee County Solid Waste Disposal Facility

GENERAL CONDITIONS:

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

Hardee County Solid Waste Disposal Facility

SPECIFIC CONDITIONS:

1. This site includes operation of a Class I landfill, construction and demolition debris disposal facility, and waste tire storage and processing, and shall be operated in accordance with all applicable requirements of Chapters 62-4, 62-25, 62-522, 62-550 62-701, and 62-711, Florida Administrative Code. This permit is valid for operation of the Class I landfill and related facilities in accordance with the reports and other information, and the October 1993 plans submitted by Wade-Trim to the FDEP, and in accordance with all applicable requirements of Department rules. Site improvements approved as part of this permit shall be completed within **one hundred and eighty (180) days** after issuance of this permit. Any construction not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate.
2. Permits shall be modified in accordance with the requirements of Rule 62-4.080, F.A.C. A modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review by the Department is considered a substantial modification.
3. Within **sixty (60) days** after all specified construction has been completed and before use, the owner or operator shall submit to the Department a certification of construction completion, Form 62-701.900(2), signed and sealed by a professional engineer, and record drawings showing all modifications to verify conformance with the plans and specifications, and shall arrange for Department representatives to inspect the facility in the company of the permittee, the engineer, and the proposed facility operator. The new systems shall not be operated until the certification has been submitted and approved, all documentation required as a condition of the permit has been submitted, and a facility inspection by Department personnel has been conducted.
4. The prohibitions of the FAC Rule 62-701.300 shall not be violated.
5. Permits shall be renewed at least every five years. Applicants for permit renewal shall demonstrate how they will comply with any applicable new or revised laws or rules relating to construction, operation, or closure of landfills. Closure plans shall be updated at the time of permit renewal to reflect changes in closure design, long-term care requirements, and financial responsibility documentation. Facility information that was submitted to the Department to support the expiring permit, and which is still valid, does not need to be re-submitted for permit renewal. The permit renewal application shall list and reaffirm that the information is still valid.
6. A copy of the Department approved permit, revised construction drawings, operational plan, construction reports and record drawings, and supporting information shall be kept at the facility at all times for reference and inspections.

Hardee County Solid Waste Disposal Facility

SPECIFIC CONDITIONS:

7. Landfills shall be designed, constructed, operated, maintained, closed, and monitored throughout its design period to control the movement of waste and waste constituents into the environment so that ground water and surface water quality standards and criteria of Chapters 62-3 and 62-302, F.A.C., will not be violated.

8. Landfills or solid waste disposal units shall not be located in the 100-year floodplain where it will restrict the flow of the 100-year flood, reduce the temporary water storage capacity of the floodplain unless compensating storage is provided, or result in a washout of solid waste.

9. All landfills shall be designed so that solid waste disposal units will be constructed and subsequently closed at planned intervals throughout the design period of the landfill.

10. All solid waste disposed of in the Class I disposal area must be covered with at least 6 inches of compacted earth or other suitable material, as approved by the Department, at the end of each working day. An intermediate cover of one (1) foot of compacted earth in addition to the six (6) inch initial cover shall be applied within seven (7) days of cell completion at all landfills if final cover or an additional lift is not to be applied within 180 days of cell completion. Top gradients of intermediate cover shall be designed to prevent ponding or low spots and minimize erosion. Portions of the landfill which have been filled with waste to the extent of designed dimensions shall be closed in accordance with all appropriate requirements of Department rules.

11. The Construction and Demolition Debris (C & D Debris) disposal area shall be limited to those items identified in F.A.C. Rule 62-701.200(17). The permittee shall not allow the disposal of "Garbage" in the C&D debris disposal area. The C & D Debris disposal area shall be operated in accordance with FAC Rules 62-701.730 and 62-701.803. Solid waste other than construction and demolition debris accepted at the Construction and Demolition Debris disposal area, shall be segregated, and recycled or disposed of in accordance with Department rules.

12. Waste tires and processed tires at the waste tire area shall be stored in accordance with the waste tire site requirements in Rule 62-711.510, F.A.C.

13. Storage at the waste tire area is limited to 1000 waste tires. At least 75 percent of both the waste tires and processed tires that are delivered to or are contained on the site of the waste tire area at the beginning of each calendar year must be removed for processing and disposal or recycling from the area during the year. An annual report summarizing these operations shall be submitted to the Department by March 1 of each year, pursuant to F.A.C. Rule 62-711.530(4).

Hardee County Solid Waste Disposal Facility

SPECIFIC CONDITIONS:

14. This facility shall have at least one trained operator at the landfill during all times when the landfill receives waste. Trained operators are those who have satisfied the requirements of Chapter 62-703, F.A.C. All landfills shall have at least one spotter at each working face at all times when the landfill receives waste to detect unauthorized wastes. The owner or operator shall implement a load checking program to detect and discourage attempts to dispose of unauthorized wastes at the landfill. The load checking program shall consist of the minimum requirements specified in FDER Rule 62-701.500(6) which includes examining at least three random loads of solid waste received each week by the landfill operator.

15. The landfill owner or operator shall have an operational plan that provides written, detailed instructions for the daily operation of the landfill. The operation plan shall be kept at or near the landfill facility and shall be accessible to landfill operators. The operation plan shall be revised if operational procedures change. The plan shall include procedures for all the items listed in FDER Rule 62-701.500(2). A schedule for routine maintenance of the leachate collection and removal system shall be established to ensure operation of the system. The maintenance schedule shall be a part of the facility operation plan. Operating records shall be maintained as required by FDER Rule 62-701.500(3).

16. The owner or operator of the facility shall weigh all solid waste as it is received. Landfill operators shall record, in tons per day, the amount of solid waste received and shall estimate the amount of wastes listed in FDER Rule 62-701.500(4)(b). Waste reports shall be compiled monthly, and copies shall be submitted to the Department **quarterly**.

17. The landfill operator is responsible for leachate level monitoring, sampling, analysis of the landfill leachate, and for providing copies of the leachate analysis to the Department. The landfill operator shall have a prepared contingency plan to handle leachate collection, removal, and treatment problems such as those caused by interruptions of discharges to a treatment plant. Quantities of leachate collected by the leachate collection and removal system shall be recorded in gallons per day before on-site treatment or transport off-site. A rain gauge shall be installed, operated, and maintained to record daily precipitation at the landfill. All rain amounts greater than one tenth of an inch shall be recorded. Daily volumes of leachate pumped from the dewatering ditch will be recorded. Daily rainfall and leachate pump volume data will be submitted to the Department **monthly**. Complete yearly leachate/water balance data to demonstrate continuous compliance with Department rules shall be submitted to the Department **annually**.

SPECIFIC CONDITIONS:

18. The operating authority shall be responsible for the control of odors and fugitive particulates arising from this operation. Such control shall minimize the creation of these nuisance conditions on nearby property. Complaints received from the general public and confirmed by Department personnel upon site inspection shall constitute a nuisance condition and the permittee must take immediate corrective action to abate the nuisance.

19. Landfills that receive biodegradable wastes shall have a gas monitoring and control system designed to prevent explosions and fires, and to minimize off-site odors and damage to vegetation. The owners or operators shall implement a routine gas monitoring program to ensure that the standards of FDER Rule 62-701.400(10) are met. All monitoring points shall be sampled and the results reported to the Department **quarterly**. If methane gas levels exceed the lower explosive limits specified in FDER Rule 62-701.400(10)(a), the owner or operator shall:

- a. Immediately take all necessary steps to ensure protection of human health and notify the Department;
- b. Within 7 days of detection, submit to the Department for approval a remediation plan for the methane gas releases. The plan shall describe the nature and extent of the problem and the proposed remedy. The remedy shall be completed within 60 days of detection unless otherwise approved by the Department.

20. The permittee shall not accept hazardous waste or any hazardous substance at this site. Hazardous waste is a solid waste identified by the Department as a hazardous waste in Chapter 62-730, Florida Administrative Code. Hazardous substances are those defined in Section 403.703, Florida Statute or in any other applicable state or federal law or administrative rule.

21. The disposal or control of any "special wastes" at the site shall be in accordance with FAC Rules 62-701.300 and 62-701.520, and any other applicable Department rules, to protect the public safety, health and welfare. "Special Wastes" means solid wastes that can require special handling and management, including but not limited to white goods, waste tires, used oil, mattresses, furniture, lead-acid batteries, asbestos, and biological wastes.

22. The permittee shall maintain a program which prohibits the disposal of bulk industrial wastes which operation personnel reasonably believe to either be or contain hazardous waste, without first obtaining a chemical analysis of the material showing the waste to be non-hazardous. The chemical analysis of any such material so placed in the landfill, along with the customer's name and date of disposal, shall be kept on file by the permittee on-site.

SPECIFIC CONDITIONS:

23. Open burning of solid waste is prohibited except in accordance with Rule 62-701.520(2), F.A.C. Controlled burning of solid waste is prohibited at this site except for clean vegetative and wood wastes which may be burned in a permitted air curtain incinerator in accordance with Rule 62-2.500(1)(e), F.A.C. Any accidental fires which require longer than one (1) hour to extinguish must be promptly reported to the Department of Environmental Protection.

24. All solid waste, recovered materials or residues handled at the facility shall be stored in a manner so as not to constitute a fire or safety hazard or a sanitary nuisance, and shall comply with all applicable local and state regulations. Recovered resources resulting from the facility and which may be offered for sale shall comply with applicable regulations of all appropriate state agencies.

25. Yard trash that is delivered to the site of the yard trash mulching area shall be processed within one hundred and eight (180) days and removed for disposal or recycling from the area within twelve (12) months of date delivered. A report summarizing these operations shall be submitted **annually** by March 1 of each year to the Solid Waste Section, Southwest District Office. Quarterly reports of yard waste are also acceptable to the Department.

26. The owner or operator shall control mosquitoes and rodents or request such control measures from the local mosquito control office, so as to protect the public health and welfare.

27. The permittee shall properly maintain the site. This includes erosion control, maintenance of grass cover, and prevention of ponding, leachate control system maintenance, and gas venting system repairs.

28. In the event of damage to any portion of the landfill site facilities regulated by this permit or failure of any portion of the landfill systems, the permittee shall **immediately** (within 24 hours) notify the Department of Environmental Protection explaining such occurrence and remedial measures to be taken and time needed for repairs. Written detailed notification shall be submitted to the Department within **seven (7) days** following the occurrence.

29. A trained supervisor or foreman shall be responsible for maintaining the facility in an orderly, safe, and sanitary manner. Sufficient personnel shall be employed to adequately operate the facility in compliance with this permit.

30. The site shall continue to have a surface water management system designed, constructed, operated, and maintained to prevent surface water from running on to waste filled areas, and a stormwater runoff control system designed, constructed, operated, and maintained to collect and control stormwater to meet the requirements of Chapter 62-25, F.A.C., and the requirements for management and storage of surface water in accordance with Chapter 373, F.S.

Hardee County Solid Waste Disposal Facility

SPECIFIC CONDITIONS:

31. Stormwater management systems shall be designed to avoid mixing of stormwater with leachate. Stormwater or other surface water which comes into contact with the landfilled solid waste or mixes with leachate shall be considered leachate.

32. To prevent unauthorized waste disposal, access to and use of the facility shall be controlled by fencing, gates, or other barriers, as well as signs and facility personnel.

33. In addition to records and reporting required, the landfill owner or operator shall keep records of all information used to develop or support the permit applications and any supplemental information pertaining to construction of the landfill throughout the design period. Records pertaining to the operation of the landfill shall be kept for the design period of the landfill. Records of all monitoring information, including calibration and maintenance records, all original chart recordings for continuous monitoring instrumentation, and copies of all reports required by permit, shall be kept for at least ten years. Background water quality records shall be kept for the design period of the landfill.

34. Within **ninety (90) days** after issuance of this permit, the water quality monitoring system shall be installed in accordance with the Wade-Trim/Mevers & Associates Water Quality & Leachate Monitoring Plan dated July 21, 1993. All sampling and analysis activities shall be performed by organizations that have Comprehensive Quality Assurance Plans approved in accordance with Rule 62-160.300(8), F.A.C.

35. The groundwater monitoring wells are located as per 3/25/87 submittal, as follows:

<u>Well Number</u>	<u>Aquifer</u>	<u>Location</u>
MW-1	Surficial	As per Permit Figure 1
MW-2	Surficial	As per Permit Figure 1
MW-3	Surficial	As per Permit Figure 1
MW-4	Surficial (background)	As per Permit Figure 1
MW-5	Surficial	As per Permit Figure 1
MW-6	Surficial	As per Permit Figure 1
MW-7	Surficial	As per Permit Figure 1

All wells are to be clearly labelled and easily visible at all times. All wells are considered to be detection wells, with the exception of the background well, MW-4.

Water levels shall be measured quarterly in all site piezometers, P1 through P14, for evaluation of the leachate/groundwater elevations in the landfill and leachate sprayfield. The locations of these piezometers are on Wade-Trim's August 2, 1993 Improvement Site Plan, Sheet 4 of 6. A reduced portion of this plan is presented as Figure 2 of this permit.

SPECIFIC CONDITIONS:

36. Pursuant to F.A.C. Rule 62-522.410, the zone of discharge shall extend horizontally to the property line or one hundred (100) feet beyond the waste management area, whichever is less, and vertically to the base of the surficial aquifer. The permittee shall ensure that the water quality standards for Class G-II groundwaters will not be exceeded at the boundary of the zone of discharge according to Rules 62-520.400 and 62-520.420, F.A.C.

37. Leachate shall be sampled from the leachate collection system prior to entering the dewatering ditch and analyzed **every 6 months** for the indicator parameters listed as follows:

Leachate indicator parameters:

<u>Field parameters</u>	<u>Laboratory parameters</u>
Specific conductivity	Total Ammonia - N
pH	Bicarbonate
Dissolved oxygen	Chlorides
Colors, sheens	Iron
	Mercury
	Nitrate
	Sodium
	Total dissolved solids (TDS)
	Those parameters listed in
	40 CFR Part 258, Appendix I

In addition, leachate shall be sampled and analyzed **annually** for the parameters listed in 40 CFR Part 258, Appendix II. For landfills which are receiving waste, if this annual analysis indicates that a contaminant listed in 40 CFR 261.24 exceeds the regulatory level listed therein, the permittee shall initiate a monthly sampling and analysis program. If in any three consecutive months the same listed contaminant exceeds the regulatory level, the permittee shall, within 90 days, initiate a program designed to identify the source and reduce the presence of the contaminant in the leachate so that it no longer exceeds the regulatory level. This program may include additional monitoring of waste received and additional up-front separation of waste materials. Any leachate which is not recirculated or taken to a permitted domestic wastewater treatment facility shall be treated or managed so that no contaminant exceeds the regulatory level. If in any three consecutive months no listed contaminant is found to exceed the regulatory level, the permittee may discontinue the monthly sampling and analysis and return to a routine sampling schedule.

Amended AUG 24 1995.

SPECIFIC CONDITIONS:

38. All piezometers listed in Specific Condition #36 shall be constructed in accordance with the construction procedures of the July 21, 1993 Water Quality & Leachate Monitoring Plan submitted July 21, 1993 to the Department, and in accordance with best geological practices. In addition, all piezometers shall have an impermeable barrier at or near ground surface to prevent surface water infiltration to the piezometer. Within **ninety (90) days** after piezometer installation, the following information shall be submitted to the Solid Waste Section of the Southwest District Office of the Department:

Piezometer identification	Lithologic Log
Latitude/Longitude	Total depth of piezometer
Screen Type and slot size	Casing diameter
Screen length	Casing type and length
Piezometer seal type and thickness	
Elevation at top of piezometer	
Elevation at land surface	

39. Within **ninety (90) days** after piezometer installation, a surveyed drawing shall be submitted showing the location of all monitor wells (active and abandoned) and piezometers in degrees, minutes and seconds of latitude and longitude, and the elevation of the top of the well casing to the nearest .01 foot, National Geodetic Vertical Datum. All surface water monitoring stations shall be surveyed in degrees, minutes and seconds of latitude and longitude. The surveyed drawing shall include the monitor well and piezometer identification number, location and elevation of all permanent benchmark(s) and/or corner monument marker(s) at the site. The survey shall be conducted by a registered Florida land surveyor.

40. All field and laboratory work done in connection with groundwater monitoring shall be conducted by a firm possessing a Generic Quality Assurance Plan or a Comprehensive Quality Assurance Plan approved by the Department in accordance with Chapter 62-160, F.A.C. The Quality Assurance Plan must specifically address the sampling and analytical work that is required by the permit. Documentation of an approved Quality Assurance Plan shall be submitted to the Department **annually** with the 1st quarterly groundwater sampling report for each year. Documentation shall include the completed signature page and the table of contents of the approved plan. The approved Quality Assurance Plan shall be followed by all persons collecting or analyzing samples related to this permit.

SPECIFIC CONDITIONS:

41. All detection wells and background wells shall be sampled and analyzed **every 6 months** for the ground water indicator parameters listed in 62-701.510(8)(a) as follows:

Ground water indicator parameters:

Field parameters	Laboratory parameters
Static water level in wells before purging	Total Ammonia - N
Specific conductivity	Chlorides
pH	Iron
Dissolved oxygen	Mercury
Turbidity	Nitrate
Colors, sheens	Sodium
Temperature	Total dissolved solids (TDS)
	Those parameters listed in 40 CFR Part 258, Appendix I

Compliance with groundwater standards and/or criteria shall be determined by analysis of unfiltered groundwater samples. Additional samples, wells, and parameters may be required based upon subsequent analysis.

Amended AUG 24 1995.

42. In accordance with 62-701.510(7), if at any time background groundwater standards are exceeded in the detection wells, the permittee has **fifteen (15) days** after the sampling data is received in which to resample the monitor well(s) to verify the original analysis. Should the permittee choose not to resample, the Department will consider the water quality analysis as representative of current groundwater conditions at the facility. If the exceedance of groundwater standards in the detection wells is confirmed, then assessment monitoring shall be initiated as detailed in 62-701.510(7).

43. If any monitoring well becomes damaged or inoperable, the permittee shall notify the Department of Environmental Protection **immediately** (within 24 hours). A detailed written report shall follow within **seven (7) days**. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent the recurrence. All monitoring well design and replacement shall be approved by the Department prior to installation and may require a permit modification.

SPECIFIC CONDITIONS:

44. The field testing, sample collection and preservation and laboratory testing, including quality control procedures, shall be in accordance with methods approved by the Department in accordance with Chapters 62-4.246 and 62-3.401, F.A.C. Approved methods are published by the Department or as published in Standards Methods, A.S.T.M., or EPA methods shall be used. Approved methods for chemical analyses are summarized in the Federal Register, 40 CFR Part 136.

45. All water quality monitoring analyses shall be reported on the Department Quarterly Report on Groundwater Monitoring Form 62-522.900(2). The permittee shall submit to the Department the results of the water quality analysis, **by July 15th and January 15th for the semi-annually periods January - June and July - December, respectively.** The results shall be sent to the Solid Waste Section, Department of Environmental Protection, Southwest District office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8313. In addition to the completed reporting form and analytical sheets, the report shall include a water table contour map for the date of the sampling event and a summary of all groundwater standard exceedances, as required by FAC 62-701.510(9)(a).

Amended AUG 24 1995.

46. **Every two years and prior to ninety (90) days before the expiration** of the Department Permit, the permittee shall submit an evaluation of the Groundwater Monitoring Plan as per F.A.C. Rule 62-701.510(9)(b). The evaluation shall include all applicable information as required by F.A.C. Rule 62-701.510(9), and shall include an assessment of the effectiveness of the existing landfill design and operation as related to the prevention of groundwater contamination. Any groundwater contamination that may exist, shall be addressed as part of a groundwater investigation for the landfill assessment. The Groundwater Monitoring Plan shall be adequate to monitor any modifications to the existing landfill site including but not limited to closure.

Amended AUG 24 1995.

47. The permittee shall provide financial assurance for this landfill site in accordance with F.A.C. Rule 62-701.630. All cost estimates for closure and long-term care shall be adjusted and submitted **annually** to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318. Proof that the financial assurance has been funded adequately shall be submitted **annually** to the FDEP District Office and to: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

PERMITTEE: Hardee County BCC

PERMIT no.: SO25-214306

Hardee County Solid Waste Disposal Facility

SPECIFIC CONDITIONS:

48. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.), Florida Statutes, applicable portions of permit applications and supporting documents which are submitted to the Department for public record shall be signed and sealed by the professional(s) who prepared or approved them.

49. A closure permit application shall be required **ninety (90) days** prior to final acceptance of waste for each landfill portion of the site. The final cover shall be placed over the entire surface of each completed portion of the filled areas within **one hundred and eighty (180) days** after final waste deposit date for each area.

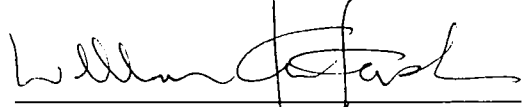
50. Prior to **90 days before the expiration** of the Department Permit, the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules.

51. The permittee shall be aware of and operate under the attached "General Conditions". General Conditions are binding upon the permittee and enforceable pursuant to Chapter 403, Florida Statutes.

52. By acceptance of this Permit, the permittee certifies that he/she has read and understands the obligations imposed by the Specific and General Conditions contained herein and also including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.

Executed in Tampa, Florida

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Richard D. Garrity, Ph.D.
Director of District Management
Southwest District

Attachment 1

PERMITTEE: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS
 HARDEE COUNTY SOLID WASTE DISPOSAL FACILITY
 PERMIT NO.: SO25-214306

SPECIFIC CONDITION	SUBMITTAL DUE DATE	REQUIRED ITEM
1.	180 days after issuance of permit	Site improvements completed
3.	60 days following construction	Certification and record drawings
13.	March 1/Annually	Waste tire report
16.	Quarterly	Waste quantity report
17.	Monthly	Rainfall and leachate volume data
17.	Annually	Leachate/water balance data
19.	Quarterly	Gas monitoring results
25.	Annually	Yard trash report
34.	90 days after issuance of permit	Water quality monitoring system installed
37.	Quarterly	Leachate sampled/analyzed
38.	90 days after installation	Piezometer construction data
39.	90 days after installation	Survey of wells and piezometers
40.	Annually with January 15th analysis results	Documentation of QA plan approval
41.	Every 6 months	Wells sampled/analyzed
45.	Each January 15th and July 15th	Analysis results
46.	March 1997	Evaluation of GWM Plan

SPECIFIC CONDITION	SUBMITTAL DUE DATE	REQUIRED ITEM
47.	Annually	Updated cost estimates for closure and long-term care
47.	Annually	Proof of funding for financial assurance
49.	90 days prior to final acceptance of waste	Closure Permit Application
50.	90 days prior to permit expiration	Apply for permit renewal

Permit Figure 1.

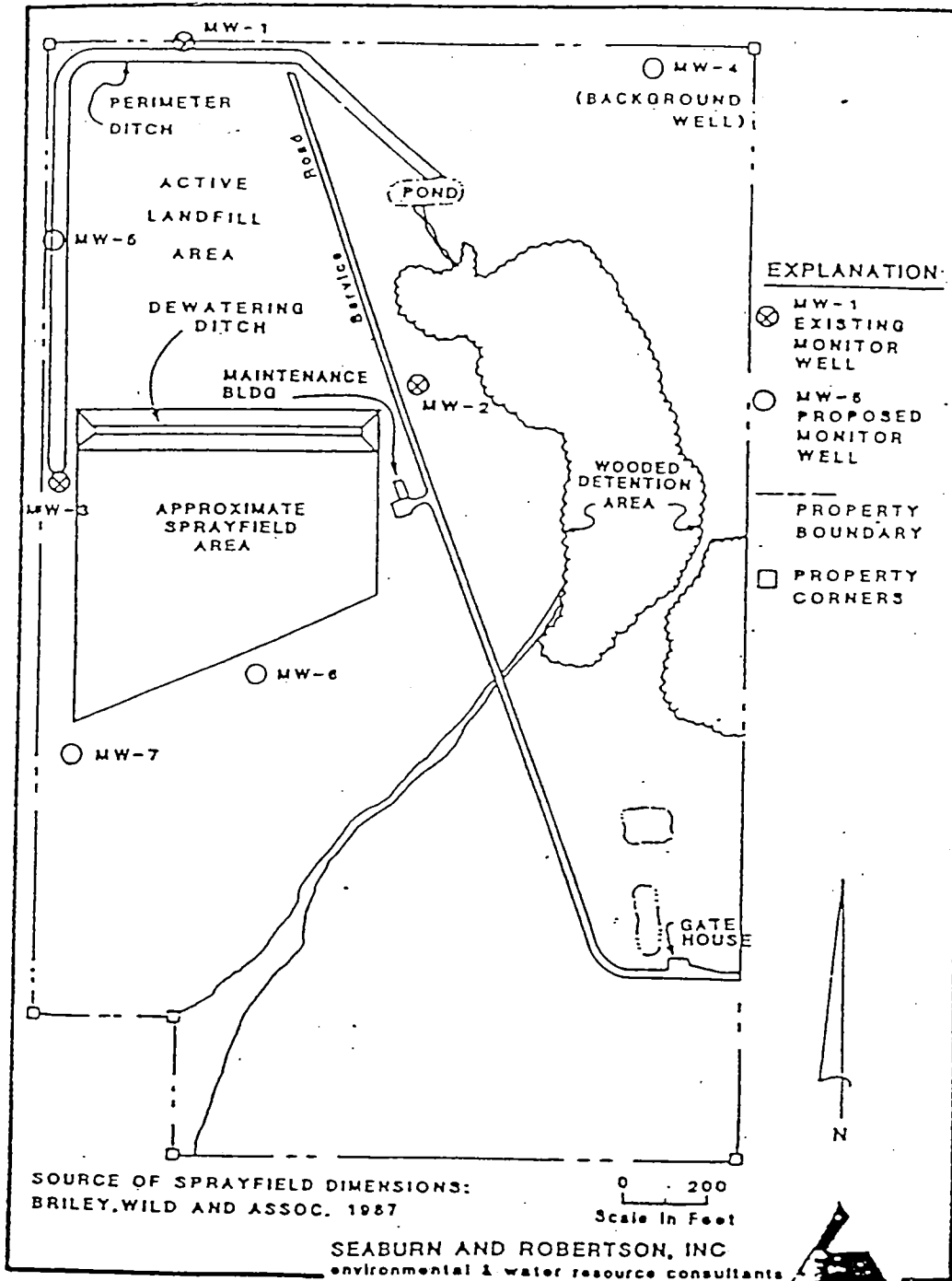


FIGURE 1.- LOCATION OF MONITOR WELLS.

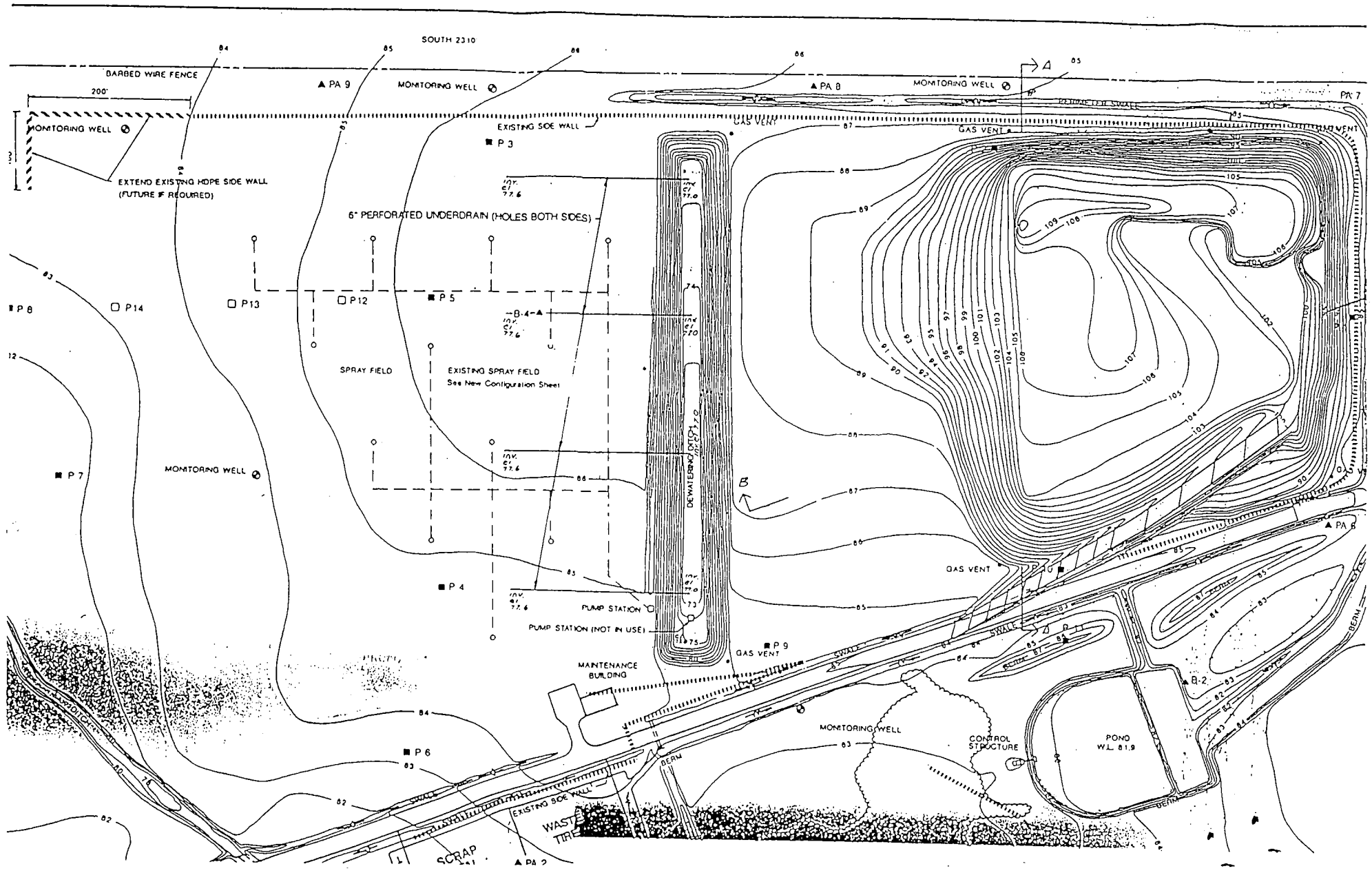


Figure 2. Improvement Site Plan (per 8/2/93 Wade-Trim Sheet 4/6)

July 5, 1995

RECEIVED
JUL 19 1995

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

Ms. Allison Amram, P.G.
Solid Waste Section
Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

Re: Slug tests conducted at the Hardee County Solid Waste Disposal Facility
Permit Number: SO25-214306.

Dear Ms. Amram:

Please find included in this letter estimates of groundwater flow rate for the Hardee County Solid Waste Disposal Facility as required by Rule 62-701.510(9)(b)7 F.A.C. Slug tests were completed on 3 of the 7 groundwater monitoring wells (MW-6, MW-7, and MW-3) located on this site. A monitoring well location map is attached.

Slug tests were performed on May 15, 1995 utilizing an in-situ Hermit 1000C 2-channel data logger with a 10 PSI pressure transducer. The slug test data from the three wells were entered into the computer groundwater interpretation program "Aqtesolv" to calculate the hydraulic gradient and configure graphical plots. The saturated thickness of the aquifer was researched and found to be approximately 25 feet ("Florida's Ground Water Quality Monitoring Program, Hydrogeological Framework," Florida Geological Survey, Thomas Scott, 1991). The results of the three tests have been averaged to determine the groundwater flow rate.


The average hydraulic conductivity across the site is 1.4×10^{-4} ft/min, as determined by Aqtesolv. Hydraulic conductivities were checked using information from "USGS Water-Supply Paper 2220 - Basic Ground Water Hydrology." Transmissivity ($T = Kb$) was calculated for the site, where:

T = transmissivity
K = hydraulic conductivity
b = saturated thickness of the aquifer.

The average transmissivity rate is approximately 3.5×10^{-3} ft²/min. Based upon the groundwater flow rates, a semi-annual groundwater sampling frequency is proposed. Attached are the graphs for each well tested and the hydraulic conductivity values. A printout of the information recorded by the data logger is also attached.

Should you have any questions or comments, please do not hesitate to contact me, (407) 647-7275 ext. 339.

Sincerely,

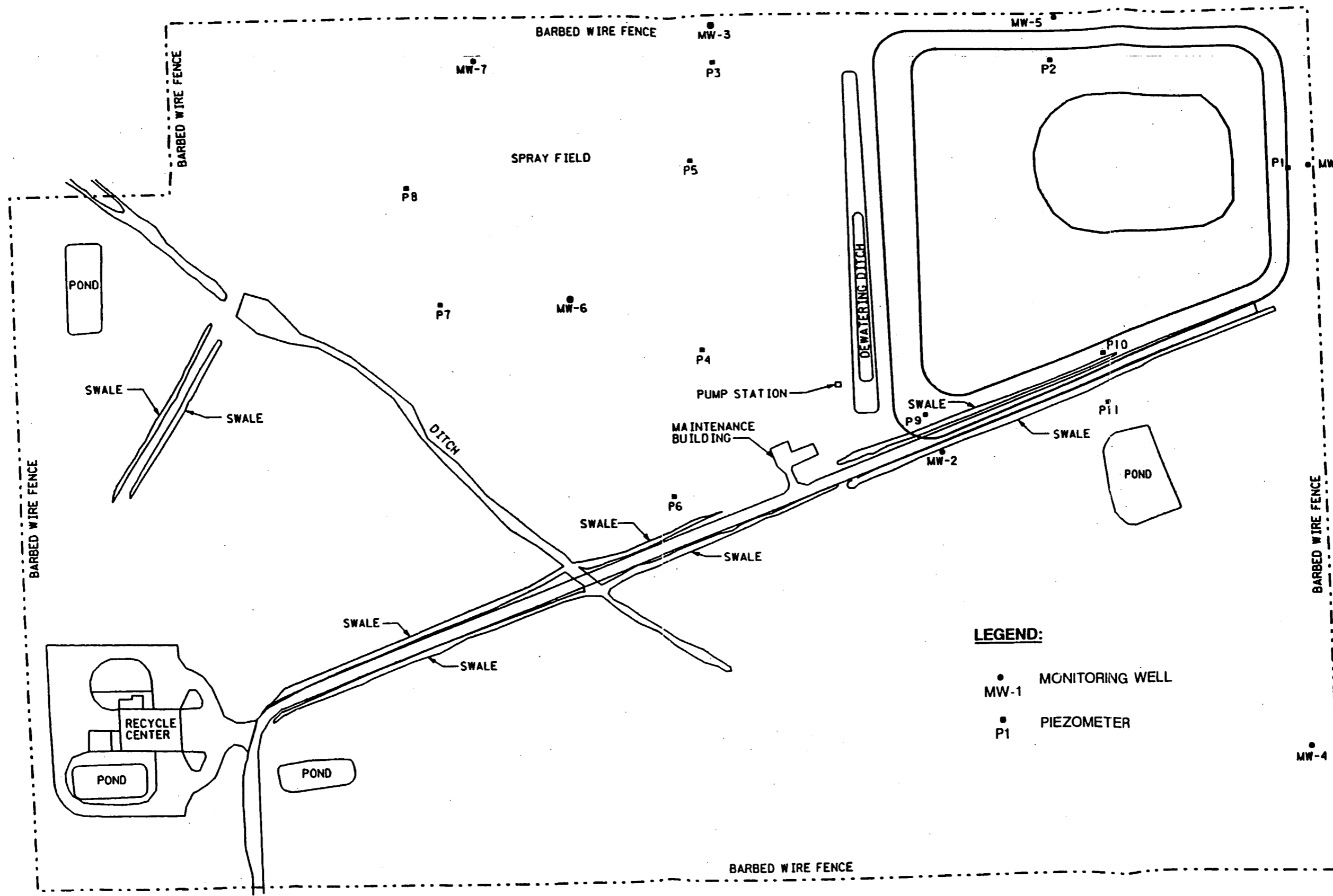

Blanche V.G. Jacob, P. G.
Project Manager
Hazardous Waste Division
No. 0001688
STATE OF FLORIDA
PROFESSIONAL GEOLOGIST

Enclosures

a: hardee/slug/nrw

RECEIVED
JUL 19 1995

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____



LEGEND:

- MONITORING WELL
- MW-1
- PIEZOMETER
- P1

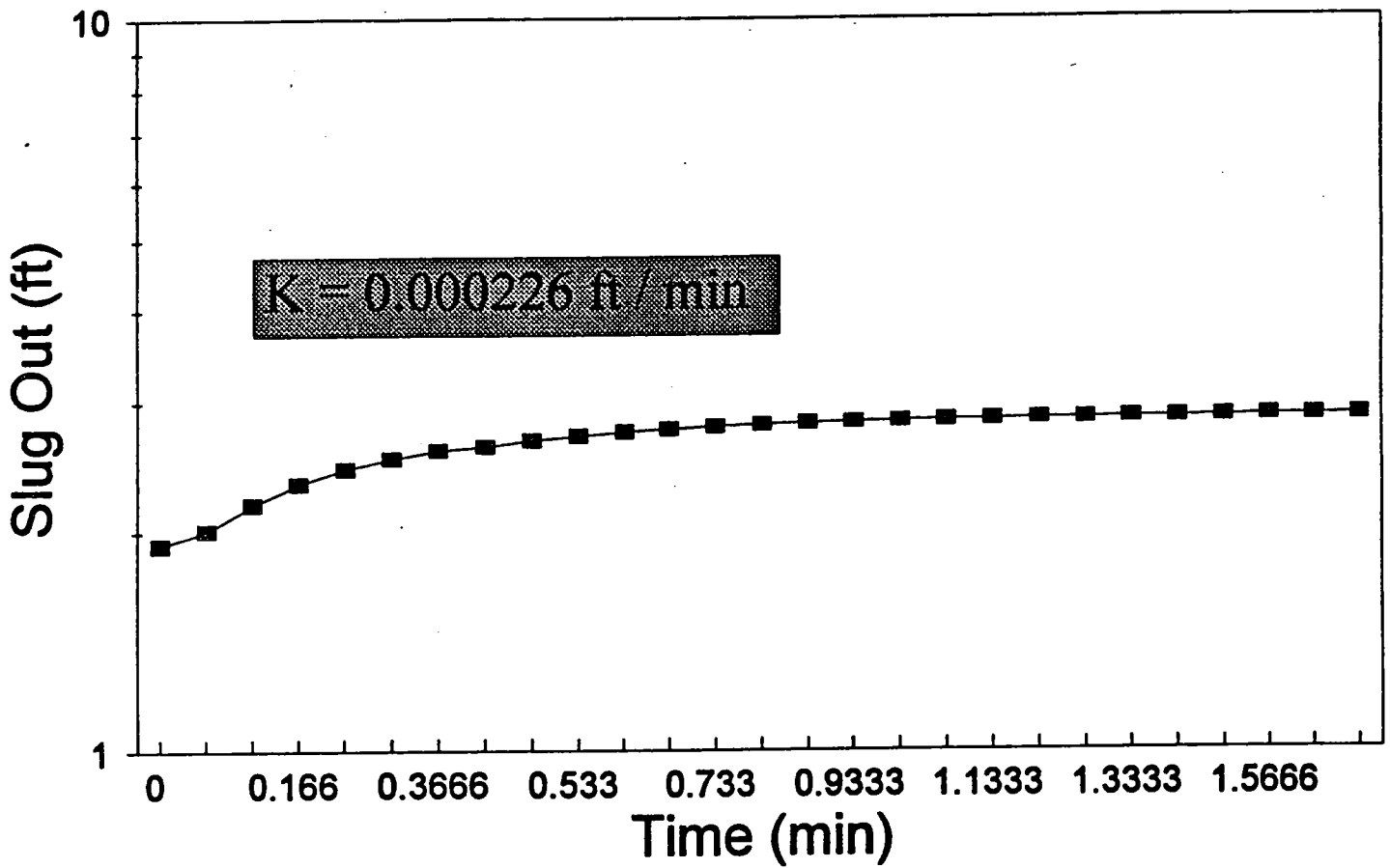
HARDEE COUNTY WASTE RECYCLING CENTER
GROUNDWATER MONITORING WELL AND PIEZOMETER LOCATIONS

FIGURE
1

RECEIVED
JUL 19 1995

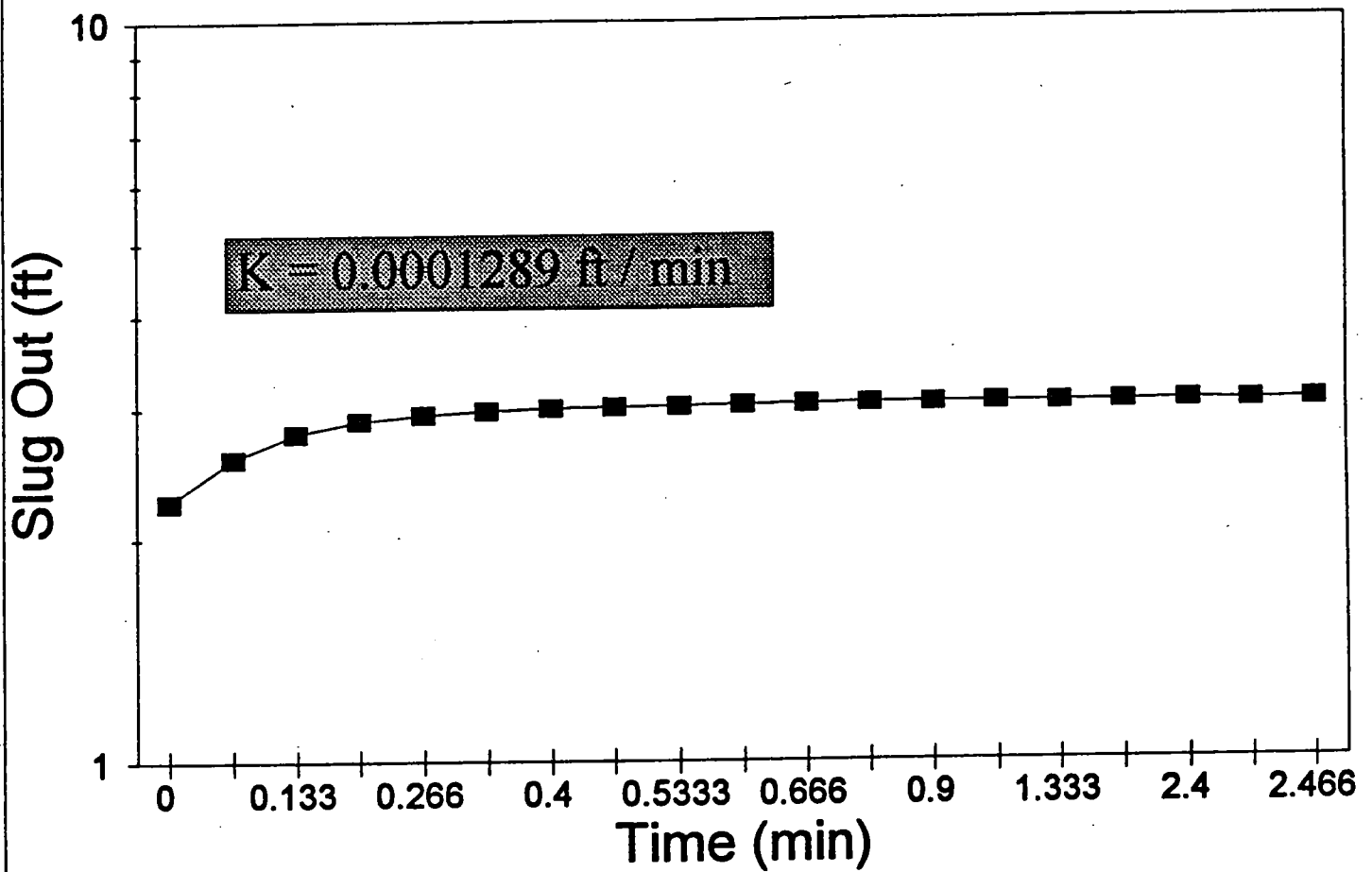
Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

Hardee Co. Solid Waste Disposal Fac.
Slug Test Results from May 1995 (MW 6)



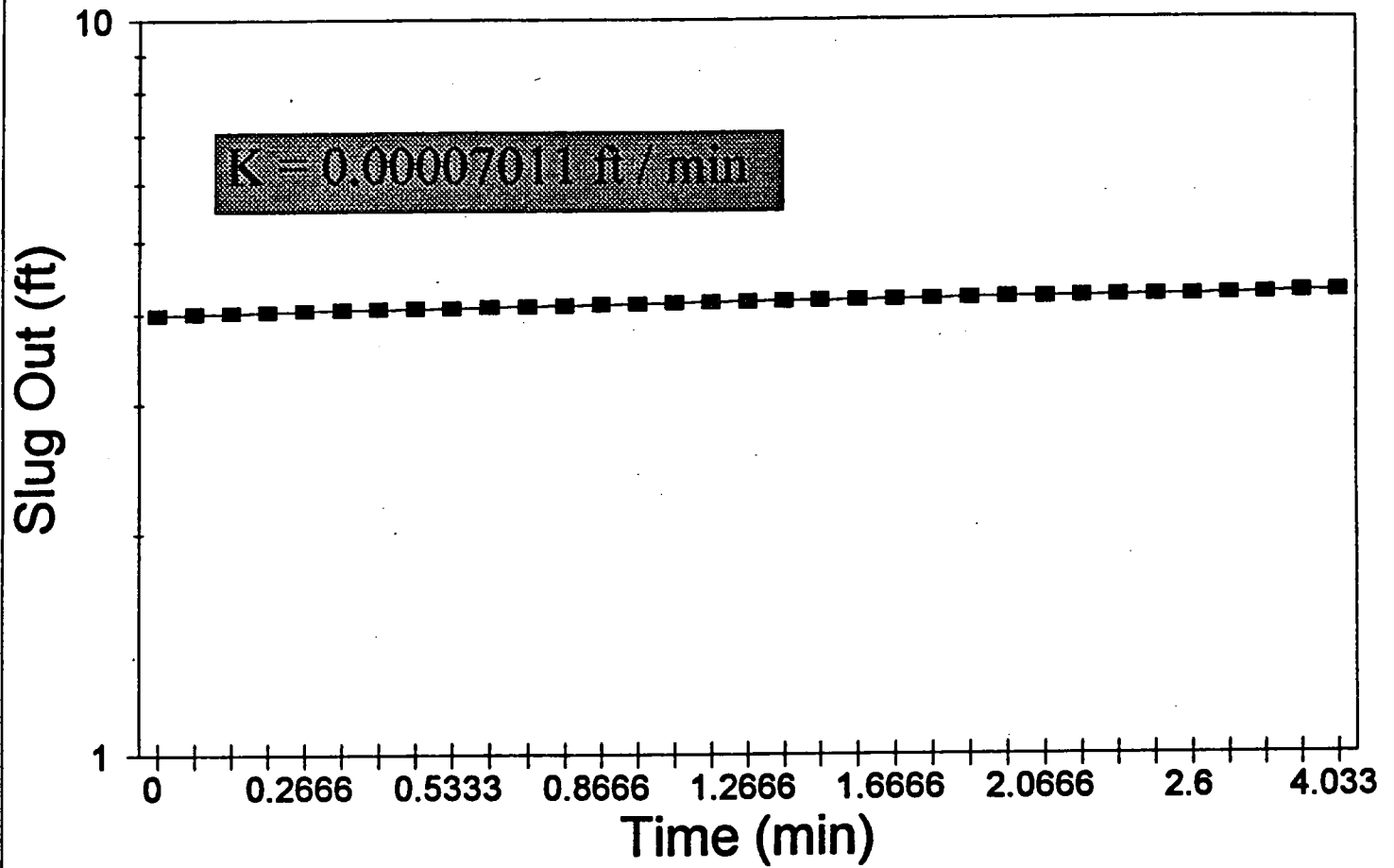
Hardee Co. Solid Waste Disposal Fac.

Slug Test Results from May 1995 (MW 7)



Hardee Co. Solid Waste Disposal Fac.

Slug Test Results from May 1995 (MW 3)



MW-L

SE1000C
Environmental Logger
05/17 09:09

Unit# 02097 Test 3

Setups: INPUT 1

Type Level (F)
Mode TOC
LD. 04889

Reference 0.000
Linearity 0.000
Scale factor 9.990
Offset -0.020
Delay mSEC 1000.00

Step 0 05/15 14:45:50

Elapsed Time INPUT 1

0.0000 -1.919
0.0333 -2.007
0.0666 -2.083
0.1000 -2.174
0.1333 -2.253
0.1666 -2.316
0.2000 -2.373
0.2333 -2.423
0.2666 -2.467
0.3000 -2.505
0.3333 -2.540
0.3666 -2.571
0.4000 -2.599
0.4333 -2.628
0.4666 -2.650
0.5000 -2.669
0.5333 -2.688
0.5666 -2.707
0.6000 -2.719
0.6333 -2.735
0.6666 -2.744
0.7000 -2.757

0.7333	-2.766
0.7666	-2.776
0.8000	-2.782
0.8333	-2.792
0.8666	-2.798
0.9000	-2.804
0.9333	-2.807
0.9666	-2.814
1.0000	-2.817
1.0333	-2.823
1.0666	-2.826
1.1000	-2.830
1.1333	-2.833
1.1666	-2.836
1.2000	-2.839
1.2333	-2.842
1.2666	-2.842
1.3000	-2.845
1.3333	-2.845
1.3666	-2.848
1.4000	-2.848
1.4333	-2.848
1.4666	-2.852
1.5000	-2.852
1.5333	-2.852
1.5666	-2.855
1.6000	-2.855
1.6333	-2.855
1.6666	-2.858
1.7000	-2.858
1.7333	-2.858
1.7666	-2.858
1.8000	-2.858
1.8333	-2.858
1.8666	-2.858
1.9000	-2.861
1.9333	-2.861
1.9666	-2.861
2.0000	-2.861
2.0333	-2.861
2.0666	-2.861

MW-7

SE1000C
Environmental Logger
05/17 09:14

Unit# 02097 Test 5

Setups: INPUT 1

Type	Level (F)
Mode	TOC
I.D.	04889

Reference	0.000
Linearity	0.000
Scale factor	9.990
Offset	-0.020
Delay mSEC	1000.00

Step 0 05/15 15:12:29

Elapsed Time INPUT 1

0.0000	-2.234
0.0333	-2.385
0.0666	-2.558
0.1000	-2.681
0.1333	-2.766
0.1666	-2.830
0.2000	-2.877
0.2333	-2.911
0.2666	-2.937
0.3000	-2.959
0.3333	-2.971
0.3666	-2.984
0.4000	-2.993
0.4333	-2.997
0.4666	-3.003
0.5000	-3.012
0.5333	-3.012
0.5666	-3.019
0.6000	-3.022
0.6333	-3.022
0.6666	-3.025
0.7000	-3.025

0.7333	-3.025
0.7666	-3.028 -
0.8000	-3.028
0.8333	-3.028
0.8666	-3.028
0.9000	-3.031 -
0.9333	-3.031
0.9666	-3.031
1.0000	-3.031
1.0333	-3.031
1.0666	-3.031
1.1000	-3.031
1.1333	-3.031
1.1666	-3.031
1.2000	-3.031
1.2333	-3.031
1.2666	-3.031
1.3000	-3.034 -
1.3333	-3.031 -
1.3666	-3.031
1.4000	-3.031
1.4333	-3.034
1.4666	-3.034 -
1.5000	-3.034
1.5333	-3.034
1.5666	-3.034
1.6000	-3.034
1.6333	-3.034
1.6666	-3.034
1.7000	-3.034
1.7333	-3.034
1.7666	-3.034
1.8000	-3.034
1.8333	-3.034
1.8666	-3.034
1.9000	-3.034
1.9333	-3.034
1.9666	-3.034
2.0000	-3.034
2.0333	-3.034
2.0666	-3.034
2.1000	-3.034
2.1333	-3.034
2.1666	-3.034
2.2000	-3.034

2.2333	-3.034
2.2666	-3.034
2.3000	-3.034
2.3333	-3.034
2.3666	-3.034
2.4000	-3.038
2.4333	-3.034
2.4666	-3.038
2.5000	-3.038
2.5333	-3.038
2.5666	-3.038
2.6000	-3.038
2.6333	-3.038
2.6666	-3.038
2.7000	-3.038
2.7333	-3.038
2.7666	-3.038
2.8000	-3.038
2.8333	-3.038
2.8666	-3.038
2.9000	-3.038
2.9333	-3.038
2.9666	-3.038
3.0000	-3.038
3.0333	-3.038
3.0666	-3.038
3.1000	-3.038
3.1333	-3.038
3.1666	-3.038
3.2000	-3.038
3.2333	-3.038
3.2666	-3.038
3.3000	-3.038
3.3333	-3.038
3.3666	-3.038
3.4000	-3.038
3.4333	-3.038
3.4666	-3.038
3.5000	-3.038
3.5333	-3.038
3.5666	-3.038
3.6000	-3.038
3.6333	-3.038
3.6666	-3.038
3.7000	-3.038

3.7333	-3.038
3.7666	-3.038
3.8000	-3.038
3.8333	-3.038
3.8666	-3.038
3.9000	-3.038
3.9333	-3.038
3.9666	-3.038
4.0000	-3.038
4.0333	-3.038
4.0666	-3.038
4.1000	-3.038
4.1333	-3.038
4.1666	-3.038
4.2000	-3.038
4.2333	-3.038
4.2666	-3.038
4.3000	-3.038
4.3333	-3.038
4.3666	-3.038
4.4000	-3.038
4.4333	-3.038
4.4666	-3.038
4.5000	-3.038
4.5333	-3.038
4.5666	-3.038
4.6000	-3.038
4.6333	-3.038
4.6666	-3.038
4.7000	-3.038
4.7333	-3.038
4.7666	-3.038
4.8000	-3.038
4.8333	-3.038
4.8666	-3.038
4.9000	-3.038
4.9333	-3.038
4.9666	-3.038
5.0000	-3.038
5.0333	-3.038
5.0666	-3.038
5.1000	-3.038
5.1333	-3.041
5.1666	-3.038
5.2000	-3.038

5.2333	-3.038
5.2666	-3.038
5.3000	-3.038
5.3333	-3.038
5.3666	-3.038
5.4000	-3.038
5.4333	-3.038
5.4666	-3.038
5.5000	-3.038
5.5333	-3.038
5.5666	-3.038
5.6000	-3.038
5.6333	-3.038
5.6666	-3.038
5.7000	-3.038
5.7333	-3.038
5.7666	-3.038
5.8000	-3.038
5.8333	-3.038
5.8666	-3.038
5.9000	-3.038
5.9333	-3.038
5.9666	-3.038
6.0000	-3.038
6.0333	-3.038
6.0666	-3.038

MW-3

SE1000C
Environmental Logger
05/17 09:18

Unit# 02097 Test 7 MW3

Setups: INPUT 1

Type Level (F)
Mode TOC
I.D. 04889

Reference 0.000
Linearity 0.000
Scale factor 9.990
Offset -0.020
Delay mSEC 1000.00

Step 0 05/15 15:43:03

Elapsed Time INPUT 1

0.0000 -3.967
0.0333 -3.983
0.0666 -3.992
0.1000 -3.996
0.1333 -4.002
0.1666 -4.008
0.2000 -4.014
0.2333 -4.018
0.2666 -4.027
0.3000 -4.033
0.3333 -4.037
0.3666 -4.043
0.4000 -4.046
0.4333 -4.049
0.4666 -4.055
0.5000 -4.059
0.5333 -4.062
0.5666 -4.065
0.6000 -4.071
0.6333 -4.074
0.6666 -4.077
0.7000 -4.081

0.7333	-4.084
0.7666	-4.087
0.8000	-4.093
0.8333	-4.096
0.8666	-4.100
0.9000	-4.103
0.9333	-4.106
0.9666	-4.109
1.0000	-4.112
1.0333	-4.115
1.0666	-4.118
1.1000	-4.122
1.1333	-4.125
1.1666	-4.128
1.2000	-4.131
1.2333	-4.134
1.2666	-4.134
1.3000	-4.137
1.3333	-4.141
1.3666	-4.144
1.4000	-4.144
1.4333	-4.147
1.4666	-4.150
1.5000	-4.153
1.5333	-4.156
1.5666	-4.159
1.6000	-4.159
1.6333	-4.163
1.6666	-4.166
1.7000	-4.169
1.7333	-4.169
1.7666	-4.172
1.8000	-4.172
1.8333	-4.175
1.8666	-4.178
1.9000	-4.181
1.9333	-4.185
1.9666	-4.188
2.0000	-4.188
2.0333	-4.191
2.0666	-4.191
2.1000	-4.194
2.1333	-4.197
2.1666	-4.197
2.2000	-4.197

2.2333	-4.200 -
2.2666	-4.200
2.3000	-4.204
2.3333	-4.204
2.3666	-4.207
2.4000	-4.207
2.4333	-4.210 -
2.4666	-4.210
2.5000	-4.210
2.5333	-4.213 -
2.5666	-4.213
2.6000	-4.216 -
2.6333	-4.216
2.6666	-4.219 -
2.7000	-4.219
2.7333	-4.219
2.7666	-4.222 -
2.8000	-4.222
2.8333	-4.226 -
2.8666	-4.226
2.9000	-4.226
2.9333	-4.226
2.9666	-4.229 -
3.0000	-4.229
3.0333	-4.229
3.0666	-4.229
3.1000	-4.232 -
3.1333	-4.232
3.1666	-4.235 -
3.2000	-4.235
3.2333	-4.235
3.2666	-4.238 -
3.3000	-4.238
3.3333	-4.238
3.3666	-4.238
3.4000	-4.241
3.4333	-4.241
3.4666	-4.241
3.5000	-4.245 -
3.5333	-4.245
3.5666	-4.248 -
3.6000	-4.248
3.6333	-4.251
3.6666	-4.251
3.7000	-4.251

3.7333	-4.251
3.7666	-4.251
3.8000	-4.251
3.8333	-4.251
3.8666	-4.251
3.9000	-4.251
3.9333	-4.251
3.9666	-4.251
4.0000	-4.251
4.0333	-4.254
4.0666	-4.254
4.1000	-4.254

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 7/18/95

Time 2:20

Subject GW Mod Request

Permit No. _____

County Hardee

Telephone No. 941/773-5089

M JR Prestridge

Representing Hardee Co

[] Phone Me Was Called [] Scheduled Meeting [] Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

Received 6/22/95 gw report asking status of 2/95 GW mod request:
History of groundwater mod request:

- 7/18 - PBST report returned
- 7/5 - PBST report rec'd, unsealed (slug tests)
- 5/19 - response to 4/28 PBST submittal
- 4/28 - PBST response to FDEP comments 3/29
- 3/29 - FDEP comments on GW Annual report
- 3/1 - PBST GW Annual Report

(continue on another sheet, if necessary)

Signature Allison Amman

Title PGI



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

Page 1 of 2

June 22, 1995

Department of Environmental Protections
Attention: Allison Amram, Environmental Specialist III
Waste Management Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

RE: Quarterly Water Analysis

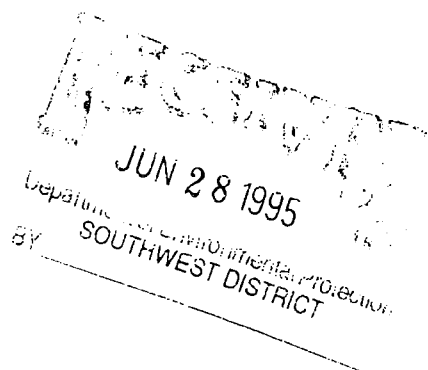
Dear Allison:

Submitted for your review are the quarterly water analysis, methane gas monitoring and quarterly leachate analysis results.

Also, please find enclosed a revised report of analysis for monitoring well #1 collected on February 21, 1995. On page 1, our lab reported the result of 0.02 mg/L for lead (Pb). This result should have been reported as 0.002 mg/L as is shown on the revised report enclosed.

In response to your letter dated June 6, 1995, our lab has informed us that there will not be any problems in reporting results on form 62-522.600(11) as required. Also they will complete the certification statement and it will be signed by Bruce Cummings of Short Environmental Lab. In addition they will include a summary of water quality standards or criteria should they exceed the limits. There is a question concerning the groundwater table contour map. Because our lab does not have the means to produce this map, may we reference the contour maps which are submitted in the annual technical groundwater evaluation, which is being done by Post, Buckley, Schuh and Jernigan.

We would greatly appreciate a response to our request to convert to semi-annual groundwater and leachate testing. This request was made on February 27, 1995 by PBS&J. Approval of this request would allow for an easy transition to the new reporting requirements.

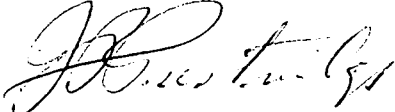


941
Phone: (813) 773-5089 • FAX: (813) 773-0958

Page 2 of 2

Please feel free to contact us should you have any questions or comments.

Sincerely,

A handwritten signature in cursive script, appearing to read "J.R. Prestridge".

J.R. Prestridge
Assistant County Manager
S.W. Superintendent

jw

cc: Allison Amram, DEP-Tampa
Chongman Lee, DEP-Tallahassee
Post, Buckley, Schuh & Jernigan
file

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 7/18/95
Time 2:10

Subject Hardee LF - gus
Permit No. _____
County Hardee
Telephone No. 407/647-7275

M Blanche Jacob
Representing PBS+J

Phone Me Was Called Scheduled Meeting Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

Returning unsealed report dated 7/5/95
Fed Ex #
1554 9936

She will have someone pick it up, she
will seal report & resubmit!

(continue on another
sheet, if necessary)

Signature Alicia Annam
Title PG



Don Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

July 5, 1995

INFORMATION REQUEST

Ms. Allison Amram, P.G.
Solid Waste Section
Department of Environmental
3804 Coconut Palm Drive
Tampa, Florida 33619

TO:

for pick up by PBS&J

**Re: Slug tests conducted :
Permit Number: SO:**

We are pleased to send the enclosed information you requested.

Dear Ms. Amram:

If we can be of further service, please contact:

Please find included in this letter
Waste Disposal Facility as required
on 3 of the 7 groundwater monitoring
monitoring well location map i

Allison Amram *Allison*

Slug tests were performed on M
with a 10 PSI pressure transducer
computer groundwater interpretation
configure graphical plots. The
approximately 25 feet ("Florida
Framework," Florida Geological
been averaged to determine the

Solid Waste Section
3804 Coconut Palm Drive
Tampa, Florida 33619
(813) 744-6100, ext. 336

COMMENTS:

*Report to be returned w/
professional seal*

The average hydraulic conductivity
Hydraulic conductivities were
Basic Ground Water Hydrology

- T = transmissivity
- K = hydraulic conductivity
- b = saturated thickness of the aquifer.

The average transmissivity rate is approximately 3.5×10^{-3} ft²/min. Based upon the groundwater flow rates, a semi-annual groundwater sampling frequency is proposed. Attached are the graphs for each well tested and the hydraulic conductivity values. A printout of the information recorded by the data logger is also attached.

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 6-20-95
Time 8:45

Subject GWMP Evaluation
Permit No. _____
County Hardee
Telephone No. _____

M. Nicki
Representing Past-Buckley

Phone Me Was Called Scheduled Meeting Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

Working on sludge test data for Hardee CF,
will submit by the end of this week
(was due 6/1/95)

(continue on another
sheet, if necessary)

Signature Allison Amman
Title PGI

DEP ROUTING AND TRANSMITTAL SLIP

TO: (NAME, OFFICE, LOCATION)

1. Janice Williamson
2. _____
3. Hardee Co Solid Waste
4. Po Box 246
5. Wataholga Fl 33573

PLEASE PREPARE REPLY FOR:

- ____ SECRETARY'S SIGNATURE
- ____ DIV/DIST DIR SIGNATURE
- ____ MY SIGNATURE
- ____ YOUR SIGNATURE
- ____ DUE DATE
- ____ ACTION/DISPOSITION
- ____ DISCUSS WITH ME
- ____ COMMENTS/ADVISE
- ____ REVIEW AND RETURN
- ____ SET UP MEETING
- FOR YOUR INFORMATION
- ____ HANDLE APPROPRIATELY
- ____ INITIAL AND FORWARD
- ____ SHARE WITH STAFF
- ____ FOR YOUR FILES

COMMENTS:

Waste Tire Rule
effective 2-28-94
6-2-711

FROM: Susan Pelz DATE: 6/15/95 PHONE: 813-244-6100
XJ886

DEP 15-026 (12/93)

DEP 1994 WASTE

CHAPT WASTE

- 62-711.100 Intent.
- 62-711.200 Definitions.
- 62-711.300 Waste Tire Permi
- 62-711.310 Waste Tire Permi
- 62-711.321 Department Fundi
- 62-711.400 Waste Tire Prohi
- 62-711.500 Waste Tire Site
- 62-711.510 Waste Tire Site
- 62-711.520 Waste tire Colle
- 62-711.530 Waste Tire Proce
- 62-711.540 Storage Requirem
- 62-711.700 Closure.
- 62-711.801 General Permits.
- 62-711.900 Forms.

62-711.100 Intent. It i protect the public health, we providing for the regulation collection, transport, proces disposal.
Specific Authority: 403.704, Law Implemented: 403.709, 40 History: New 2-19-89, Amende 17-711.100.

62-711.200 Definitions. definitions in Rule 62-701.20 phrases, or terms as used in indicates otherwise, shall ha
(1) "Abatement" means a remove waste tires from a w
(2) "Department" means t Protection .

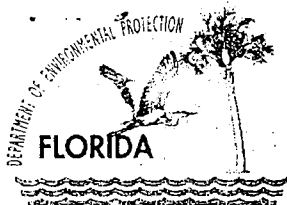
(3) "Indoor" means withi excludes rain and public acce in the event of a fire.

(4) "Motor vehicle" means an automobile, motorcycle, truck, trailer, semitrailer, truck tractor and semitrailer combination, or any other vehicle operated on the roads of this state, used to transport persons or property, and propelled by power other than muscular power, but the term does not include traction engines, road rollers, such vehicles as run only upon a track, bicycles, moped, or farm tractors and trailers.

(14) "Waste tire" means a tire that has been removed from a motor vehicle and has not been retreaded or regrooved. "Waste tire" includes used tires and processed tires.

(15) "Waste tire collection center" means a site where waste tires are collected from the public before being offered for recycling or disposal and where fewer than 1,000 tires are kept on site on any given day.

(16) "Waste tire collector" means a person who transports more than 25 waste tires over public highways at any one time.



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

June 6, 1995

J.R. Prestridge
Hardee County Department of Solid Waste & Recycling Center
P.O. Box 246
Wachula, FL 33873-0340

Subject: Water Quality Monitoring Reporting
Hardee County Solid Waste Disposal Facility
Permit No. SO25-214306, Hardee County

Dear Mr. Prestridge:

All Class I landfill facilities that are currently operating are required under F.A.C. Rule 62-701.510(9) to report their water quality monitoring results in specific format. A copy of this rule section is attached for your reference. Most facilities have been including all of the semi-annual requirements, except for the updated groundwater table contour map, and the summary of water quality standards or criteria that have been exceeded. Please carefully review these requirements prior to submitting your water quality monitoring reports for the next reporting period.

In addition, every landfill permit has a specific condition that requires the results to be submitted on the DER Form 17-1.216(2), Quarterly Report on Groundwater Monitoring. This reporting form has been replaced by DEP Form 62-522.600(11), attached. This form is for the reporting of groundwater, surface water and leachate monitoring. Please make sure that this form is correctly filled out, and the certification statement is signed and dated. This form is important for two reasons: it demonstrates that the facility owner or representative is aware of the results of the monitoring, and it provides a standardized format for entry into the State's Groundwater Monitoring System (GMS) database. This database is used statewide to evaluate historical trends, and to provide data upon request. Standardized input forms greatly increase the accuracy of this database.

Several items on the forms appear to be confusing. On the page with the certification statement, the "GMS #" is the facility identification number used in the GMS database. For your facility, this number is 4025C30001.

For "Method of Discharge", please put "unknown" for lined landfills. You may elect to state that the facility is a lined landfill.

Mr. J.R. Prestridge
June 6, 1995
Page 2

On the Parameter Monitoring Report side, "Facility GMS #" appears again. It's the same number as the "GMS #" from the first side of the form. "Test Site ID #" refers to the GMS well number, and "Well Name" refers to the common name used for the well. Your facility well names and GMS Test Site ID numbers are provided below:

Facility GMS # 4025C30001 (The GMS Identification Number)

<u>Well Name</u>	<u>Test Site ID #</u>
Monitor Well #7	4025A14575
Monitor Well #6	4025A14574
Monitor Well #5	4025A14573
Monitor Well #4(Background)	4025A14572
Monitor Well #3	4025A14571
Monitor Well #2	4025A14570
Monitor Well #1	4025A14569

STORET codes are input codes for the method of analysis for a specific water quality monitoring parameter. STORET is the US EPA's water quality monitoring database. All State water quality monitoring programs that receive any Federal moneys are required to include this information to provide EPA with an accurate water quality database. Your laboratory should have the list of these codes. If you are in need of these numbers, please fax to me a list of the parameters and method analyzed for each parameter, and I can fax you the appropriate STORET codes. My fax number is 813/744-6125.

I appreciate the extra effort that this letter requires. Once the reporting forms are correctly set up, they will be easy to use for future reports. The groundwater contour maps must be drawn for each sampling event. If you should have any questions, please contact me at 813/744-6100, ext. 336.

Sincerely,



Allison Amram, P.G.
Solid Waste Section

Attachments

cc: Bob Butera, P.E., FDEP

(9) Water quality monitoring reporting.

(a) The landfill owner or operator shall report all water quality and leachate monitoring results to the Department semi-annually, unless a different monitoring frequency is specified in the permit. The operator of the landfill shall notify the Department at least 14 days before the sampling is scheduled to occur so that the Department may collect split samples. The report shall include at least the following:

1. The facility name and identification number, sample collection dates, and analysis dates;
2. All analytical results, including all peaks even if below maximum contaminant levels;
3. Identification number and designation of all surface water and ground water monitoring points;
4. Applicable water quality standards;
5. Quality assurance, quality control notations;
6. Method detection limits;
7. STORET code numbers for all parameters;
8. Water levels recorded prior to evaluating wells or sample collection. Elevation reference shall include the top of the well casing and land surface at each well site at a precision of plus or minus 0.01 foot (NGVD); and
9. An updated ground water table contour map, with contours at no greater than one-foot intervals, which indicates ground water elevations and flow direction; and
10. A summary of any water quality standards or criteria that are exceeded;

(b) A technical report, prepared, signed and sealed by a professional geologist or professional engineer with experience in hydrogeologic investigations, shall be submitted to the Department every two years, and shall be updated at the time of permit renewal. The report shall summarize and interpret the water quality data and water level measurements collected during the past two years. The report shall contain, at a minimum, the following:

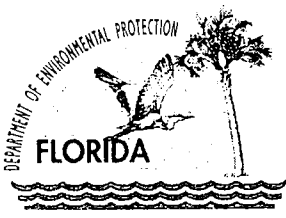
1. Tabular and graphical displays of any data which shows that a monitoring parameter has been detected, including hydrographs for all monitor wells;
2. Trend analyses of any monitoring parameters detected;
3. Comparisons among shallow, middle, and deep zone wells;
4. Comparisons between upgradient and downgradient wells;
5. Correlations between related parameters such as total dissolved solids and specific conductance;
6. Discussion of erratic and/or poorly correlated data;
7. An interpretation of the ground water contour maps, including an evaluation of ground water flow rates; and
8. An evaluation of the adequacy of the water quality monitoring frequency and sampling locations based upon site conditions.

(c) All field and laboratory records specified in Rules 62-160.600 - .630, F.A.C., shall be made available to the Department and be retained for the design period of the landfill.

Specific Authority: 403.061, 403.704, F.S.

Law Implemented: 403.702, 403.704, 403.707, F.S.

History: New 1-6-93; Amended 1-2-94, 5-19-94, Formerly 62-701.510.



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

May 19, 1995

Blanche V.G. Jacob, P.G.
Post, Buckley, Schuh & Jernigan
1560 Orange Avenue, Suite 700
Winter Park, Florida 32789-5544

Subject: Response to the Hardee County Ground Water Annual Technical Report, dated April 28, 1995 by PBS&J
Permit No. SO25-214306, Hardee County

Dear Ms. Jacob:

The Department has received your April 28, 1995 letter response to the Department's comments on the 1995 Hardee County Ground Water Annual Technical Report. Comments on Section 1, Item 3 and Appendix D have been adequately addressed. A response to Section 1, Item 5 and Section 7 will be expected in May. As the responses to Section 7 involve interpretation of hydrogeologic data, please provide a sealed copy of this report by a Florida-licensed professional geologist, in accordance with Florida Statute 492.

The response to Section 1, Item 5 mentioned that the County may wish to pursue the option of discharging leachate from the leachate collection trench as surface water. If the County decides to pursue this option, a meeting with the County and Department's solid waste personnel should be scheduled.

When evaluating the possibility of pursuing this option, please keep the following requirements in mind. A plan for surface water discharge would include, at a minimum, the following items:

- Sampling locations, frequency and parameters for the leachate from the intercept trench, and receiving water body locations upstream and downstream of the proposed discharge point.
- Classification of the water quality type of the receiving water body, and the distance between the receiving water and the proposed discharge point.
- Operational plan for treating the water to be discharged to ensure that it meets surface water quality standards.

Ms. Blanche Jacob

May 19, 1995

Page 2

- Operational plan for how the water will be discharged, and at what criteria it becomes necessary for discharging water.
- Plan for notification of the Department of sampling times, and the start and stop of proposed discharges, and volume of discharge.

Please note that F.A.C. Chapter 17-701.500(8)b requires treatment of leachate as necessary to meet the standards of surface or groundwaters.

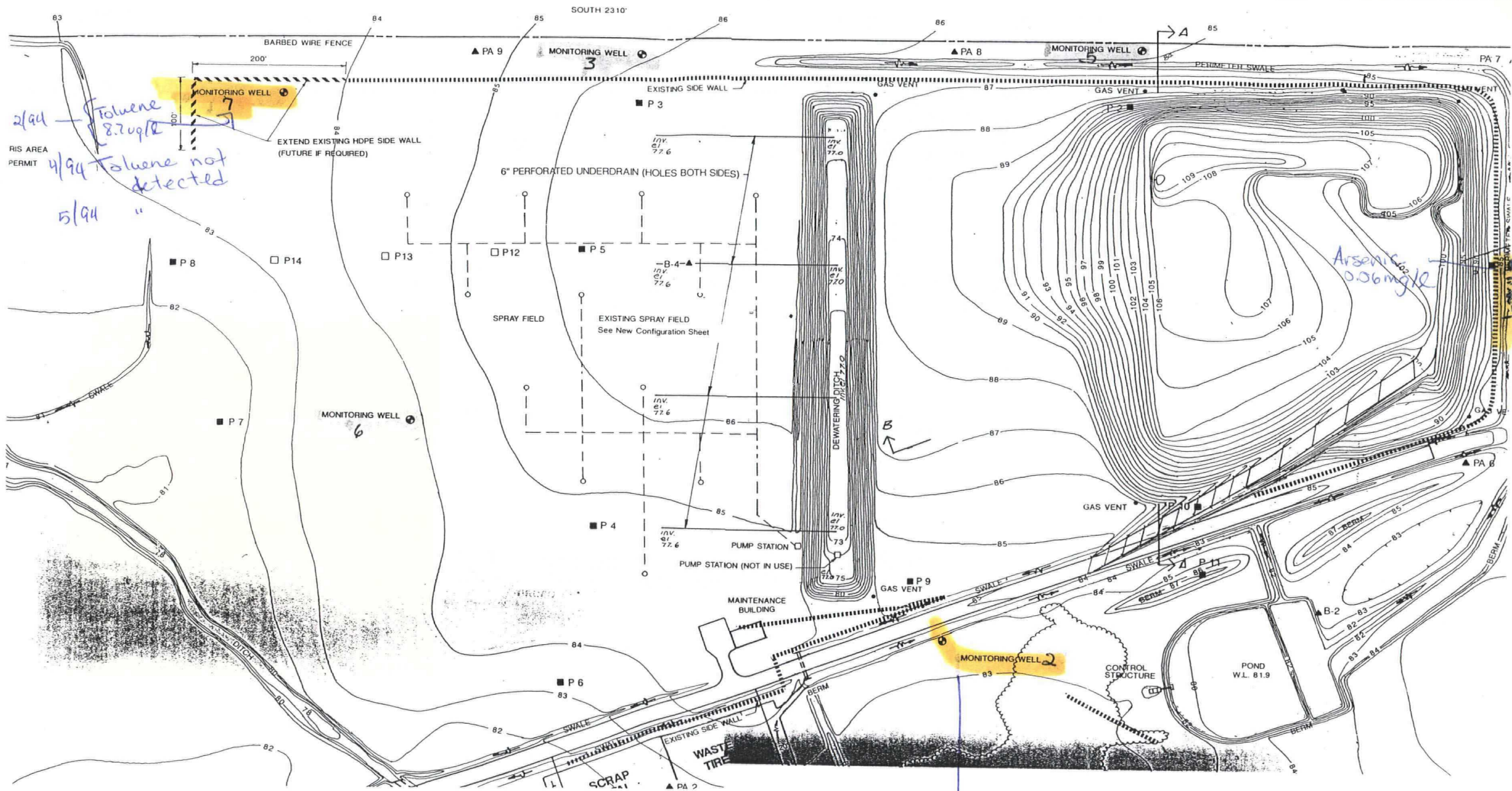
If you should have any questions or comments, please contact me at (813) 744-6100, ext. 336.

Sincerely,



Allison E. Amram, P.G.
Solid Waste Section

cc: J.R. Prestridge, Hardee County Solid Waste
Susan Pelz, E.I. - FDEP
Robert Butera, P.E. - FDEP
Kim Ford, P.E. - FDEP



Groundwater sampled 5/6/94

Piezometers
Monitoring Wells

Benzene 1.31 ug/l
Toluene 3.88
Xylenes 3.16
Methyl-tert-butyl ether 5.91

nw-4
(backpack)

Bob - Susan FYI - 7/22
File

Hardee Co -

mw1 - Arsenic is just
above MCL

mw2 - benzene just
above MCL

mw7 - detected toluene
below MCL's; gone now
Lab error? Prob. not.

April 28, 1995

RECEIVED
MAY 05 1995

Ms. Allison Amram, P.G.
Solid Waste Section
Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

Re: Comments dated March 29, 1995 concerning the 1995 Hardee County Ground Water Annual Technical Report. Hardee County Solid Waste Disposal Facility Permit No. S025-214306.

Dear Ms. Amram:

Please find listed below responses to the March 29, 1995 comments concerning the 1995 Hardee County Ground Water Annual Technical Report and permit modification.

Section 1

Item 3. How are the wells being purged and sampled currently? The report suggests that proper quality control for the sample collection should reduce sample turbidity. If proper quality control is currently being used for sample collection, please evaluate methods to reduce sample turbidity.

Short Environmental Laboratories of Sebring, Florida, has assured Hardee County and PBS&J that they are sampling in accordance with their approved Comprehensive Quality Assurance Plan. Upon inquiry, Short Environmental Laboratories has reaffirmed this statement. In accordance with this position, we can only postulate that there may be some accumulation of sediments in the monitoring wells. This possibility will be evaluated.

Item 5. F.A.C. Rule 62-701.510(4)(a) states that "All surface water bodies that may be affected by a contaminant release from the facility shall be monitored, except bodies of water contained completely within the property boundaries of the disposal site which do not discharge from the site to surface water."

If it appears that landfill activities that occur at the land surface may affect the swale/ditch that flows along the east and south of the landfill, then surface water monitoring should be conducted according to F.A.C. Rule 62-701.510(4) and (6)(d). If groundwater contamination is discovered adjacent to the swale/ditch, then the contaminant parameters in the groundwater should be analyzed in the surface water at that time.

Ms. Allison Amram
April 28, 1995
Page 2

There are two potential areas for surface water to be impacted by contaminants originating from the landfill, a basin and the referenced swale/ditch. The storm water management system includes a basin located to the east of the active landfill area. The surface water that flows into this containment is discharged into a surface water conveyance that flows south and then southwesterly. This drainage conveyance flows across the open end of the spray irrigation area and discharges off-site.

In order for this stormwater basin to be affected by the landfill, rainfall would have to come into contact with the waste and flow over the surface, down the side slopes of the disposal zone, and be collected in the stormwater system. The landfill operations currently prevent this from occurring. The surface water that comes into contact with the waste, plus a significant portion of the surface water that drains from the soil cover material, is collected into a diversion swale that directs the collected water to the leachate management ditch. Based on this, it does not seem appropriate to require monitoring of the stormwater basin. The County is currently evaluating a means of reducing the drainage areas that contribute to this excess water. In locations where at least intermediate cover is already in place, the stormwater should be separated from the leachate in order to reduce the stormwater impact on the leachate collection ditch. Should the County determine that this is a viable alternative, an operation plan modification will be submitted to the FDEP office for approval.

The surface water ditch located south of the spray irrigation area could potentially be contaminated from surface runoff from the spray area, provided that the sprayed water is contaminated. The current design of the leachate collection system provides a significant area of storm water runoff that mixes with the actual leachate in the leachate management ditch. Based on a preliminary evaluation by the County, the water in the leachate management ditch could meet Class III surface water standards. The impact of this mix is that the sprayed liquid does not appear to contribute contaminated water to the surface system. The County is interested in evaluating the potential of modifying the leachate management system to avoid the collection of storm water into the leachate management ditch. Upon additional evaluation, if the water in the leachate management ditch could be discharged as surface water, the County may elect to pursue this alternative.

Section 7

Please provide estimates of groundwater flow rate, as required by F.A.C. Rule 62-701.510(9)(b)7.

A series of slug tests to determine groundwater flow rates has been scheduled for early May 1995. Upon completion of the slug tests, the groundwater flow rates will be reported to FDEP along with a proposed groundwater sampling frequency which shall commensurate with these rates. A proposal for any surface water sampling shall also be presented at this time.

Ms. Allison Amram
April 28, 1995
Page 3

Appendix D

Groundwater and leachate shall be analyzed for the parameters listed in F.A.C. Rule 62-701.510(8)(a) for groundwater, and F.A.C. Rule 62-701.501(8)(c) and (d) for leachate. Sampling frequency for groundwater will be based on the groundwater flow rates to be determined (see comment on Section 7, above). Leachate sampling shall be every six months.

Comment acknowledged.

Should you have any further questions or require additional data, please do not hesitate to contact me at any time, (407) 647-7275, ext. 339.

Sincerely,



Blanche V.G. Jacob, P.G.
Project Manager

cc: J.R. Prestridge, Hardee County Solid Waste
Janice Williams, Hardee County Solid Waste
Bob Butera, P.E., FDEP
Susan Pelz, FDEP
Ed Hilton, PBS&J



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

March 29, 1995

Ms. Blanche V.G. Jacob, P.G.
Post, Buckley Schuh & Jernigan
1560 Orange Avenue, Suite 700
Winter Park, Florida 32789

Subject: 1995 Ground Water Annual Technical Report
dated February 1995 (REVISED 3/1/95)
Hardee County Solid Waste Disposal Facility Permit No. SO25-214306

Dear Ms. Jacob:

The Department has reviewed the 1995 Ground Water Annual Technical Report for the Hardee County Solid Waste Disposal Facility, and the permit modification request to comply with the water quality monitoring changes to rule F.A.C. 62-701.501(1). The Department has the following comments on this report and modification request.

Section 1

Item 3. How are the wells being purged and sampled currently? The report suggests that proper quality control for the sample collection should reduce sample turbidity. If proper quality control is currently being used for sample collection, please evaluate methods to reduce sample turbidity.

Item 5. F.A.C. Rule 62-701.510(4)(a) states that "All surface water bodies that may be affected by a contaminant release from the facility shall be monitored, except bodies of water contained completely within the property boundaries of the disposal site which do not discharge from the site to surface water."

If it appears that landfill activities that occur at the land surface may affect the swale/ditch that flows along the east and south of the landfill, then surface water monitoring should be conducted according to F.A.C. Rule 62-701.510(4) and (6)(d). If groundwater contamination is discovered adjacent to the swale/ditch, then the contaminants parameters in the groundwater should be analyzed in the surface water at that time.

Section 7

Please provide estimates of groundwater flow rates, as required by F.A.C. Rule 62-701.510(9)(b)7.

Ms. Blanche V.G. Jacob, P.G.
March 29, 1995
Page 2

Appendix D

Groundwater and leachate shall be analyzed for the parameters listed in F.A.C. Rule 62-701.510(8)(a) for groundwater, and F.A.C. Rule 62-701.501(8)(c) and (d) for leachate. Sampling frequency for groundwater will be based on the groundwater flow rates to be determined (see comment on Section 7, above). Leachate sampling shall be every six months.

Please address these comments, and submit your response by June 1, 1995. Once these issues are resolved, a permit modification for groundwater, leachate, and possibly surface water monitoring will be issued to Permit No. SO25-214306. If you have any questions, please contact me at 813/ 744-6100, ext. 336.

Sincerely,



Allison Amram, P.G.
Solid Waste Section

cc: J.R. Prestridge, Hardee County Solid Waste
Janice Williams, Hardee County Solid Waste
Bob Butera, P.E., FDEP
Susan Pelz, FDEP

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 3-14-95

Subject Hardee Co LF

Time 11:30

Permit No. _____

County Hardee

M. Bruce Cummins

Telephone No. 813/655-4022

Representing Short Environmental

Phone Me [] Was Called [] Scheduled Meeting [] Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

Teachate had a hit of 1,4-dichlorobenzene
GW OK for organics

Hardee Co's gw mod has been submitted &
discusses lab data - Bruce asked me
to call if cl had any questions on
this area of the report

(continue on another
sheet, if necessary)

Signature Allison Amram

Title PG1

I N T E R O F F I C E M E M O R A N D U M

Date: 13-Mar-1995 03:40pm EST
From: Kim Ford TPA
FORD K
Dept: Southwest District Offi
Tel No: 813/620-6100
SUNCOM: 542-6100 Ext. 382

Debbie Lewis
Hardee County
Health Unit
Office Box 51
PO 33675-51

TO: Robert Butera TPA (BUTERA_R)
CC: Susan Pelz TPA (PELZ_S)
CC: Allison Amram TPA (AMRAM_A)
CC: Steve Morgan TPA (MORGAN_S)

Subject: HARDEE COUNTY LANDFILL LEACHATE MANAGEMENT

The most recently submitted leachate report shows an inward gradient for the landfill and SPRAYFIELD. I spoke with Ms. Williamson today to congratulate her, but to also express two concerns that should be addressed.

1. Why are the number of gallons sprayed variable for a series of days with no rain? I have not reviewed the permitted maximum application rate. (If an inward gradient is maintained, the sprayfield should be expanded to its originally permitted dimensions. This point was not discussed with Ms. Williamson.)

2. Records show 25,000 gpd of leachate generated from the landfill, or 2100 gallons per acre per day. The expected leachate generated should be 500-1000 gallons per acre per day. The Hardee County Landfill currently generates 2 to 4 times more leachate than expected. I asked if most the intermediately covered areas drain to the leachate pond or to outside stormwater ditches. Ms. Williamson advised that 90% of the 11 acres of landfill having been intermediately covered currently drain to the leachate pond and a new drainage plan is being developed to redirect storwater to the outside ditches.

March 1, 1995

RECEIVED
MAR 02 1995

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

Mr. Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Hardee County Solid Waste Disposal facility, Permit #S025-214306

Dear Mr. Ford:

Enclosed you will find a revised (3/1/95) 1995 Annual Technical Report for the Hardee County Solid Waste Disposal Facility, Hardee County Solid Waste Recycling Center, Hardee County, Florida. Unfortunately, the document forwarded to you on February 28, 1995 contained an unrevised section which had been erroneously submitted to the printer. In addition to this error, the printer misbound a number of ground water contour maps.

I would like to apologize for any inconvenience this has caused you. Please ship the erroneous document to me at my expense by Federal Express. A bill of lading has been provided to you for this purpose.

Please call me at (407)647-7275, extension 339 if you have any questions regarding the document. Again, thank you for your assistance in returning originally submitted report to me.

Sincerely,



Blanche V.G. Jacob, P.G.
Project Manager, Hazardous Waste Program

c: Mr. J.R. Prestridge
Ms. Nikki Wiltrout
Mr. Ed Hilton

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 2/28/95
Time 12:30

Subject Hardee Co
Permit No. _____
County Hardee
Telephone No. 407/647-7275
x389

M Nicki
Representing PBS+J

Phone Me Was Called Scheduled Meeting Unscheduled Meeting
Other Individuals Involved in Conversation/Meeting _____

Fed Ex'd Hardee Co report - should re'd to day
• gas contours should be in Section 7 (part
in Sect 3)
• will send a replacement page --
omitted the word "not" in a statement
She is the one who did the hydrogeologic report --
I can call her if I have any questions.

(continue on another
sheet, if necessary)

Signature Allison Amsam
Title PGI

February 27, 1995

Susan
Allison

RECEIVED
FEB 28 1995
Department of Environmental Protection
BY SOUTHWEST DISTRICT

Mr. Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Re: Hardee County Solid Waste Disposal facility, Permit #S025-214306

Dear Mr. Ford:

Enclosed you will find the 1995 Annual Technical Report and ground water monitoring permit modification request for the Hardee County Solid Waste Disposal Facility, Hardee County Solid Waste Recycling Center, Hardee County, Florida. The current permit number for this facility is #S025-214306. Please call me at (407)647-7275, extension 339 if you have any questions regarding these documents.

Sincerely,

Blanche V.G. Jacob

Blanche V.G. Jacob, P.G.
Project Manager, Hazardous Waste Program

c: Mr. J.R. Prestridge
Ms. Nikki Wiltrout
Mr. Ed Hilton

February 27, 1995



Ms. Allison Amram
Waste Management Section
Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619-8318

RE: Permit Modification for the Hardee County Waste Recycling Center, Wauchula, Florida. Permit/Certification Number: S025-214306.

Dear Ms. Amram:

In accordance with the new rule 17-701, F.A.C. issued May 19, 1994, specifically 17-701.510(1)(a), owners or operators of all solid waste disposal units receiving waste after January 6, 1993, shall submit an application for a permit modification of leachate and groundwater sampling and analysis procedures. Please acknowledge this letter as an application of permit modification for the Hardee County Waste Recycling Center, Wachula, Florida. Continued on the following pages are the parameter modifications made in accordance with rule 17-701.510(8)(a)(b)(c), F.A.C. Also in accordance with the new rule 17-701.510(2) all groundwater monitoring wells, surface water sampling points, and leachate collection points, as specified in the permit, shall be sampled and analyzed semi-annually. Leachate will be sampled and analyzed annually for those parameters listed in 40 CFR Part 258 Appendix II, as per rule 17-701.510(8)(d). Contingent upon FDEP approval, implementation of the modified water quality plan will be scheduled with the next sampling event.

A permit modification request may be submitted to the Department after one full year of sampling and analysis, as per rule 17-701.501(6). The request may be made to delete those parameters which upon demonstration are not reasonably expected to be in or derived from the waste contained in the unit from routine sampling events. If contaminants are detected and confirmed in any of the groundwater monitoring wells, surface waters, or leachate collection points, the Department will be notified within 14 days of the finding. Upon notification to the Department, assessment monitoring and corrective actions shall be initiated. Assessment monitoring will proceed in accordance with requirements of rule 17-701.510 paragraph (7)(a).

Please find attached the above mentioned parameter modifications for the water quality monitoring plan, Appendix II of 40 CFR Part 258, and a 3.5" diskette containing a hard copy of this document for your files.

Ms. Allison Amram
February 27, 1995
Page 2

Should you have any questions concerning this modification, please feel free to contact me at any time.

Sincerely,

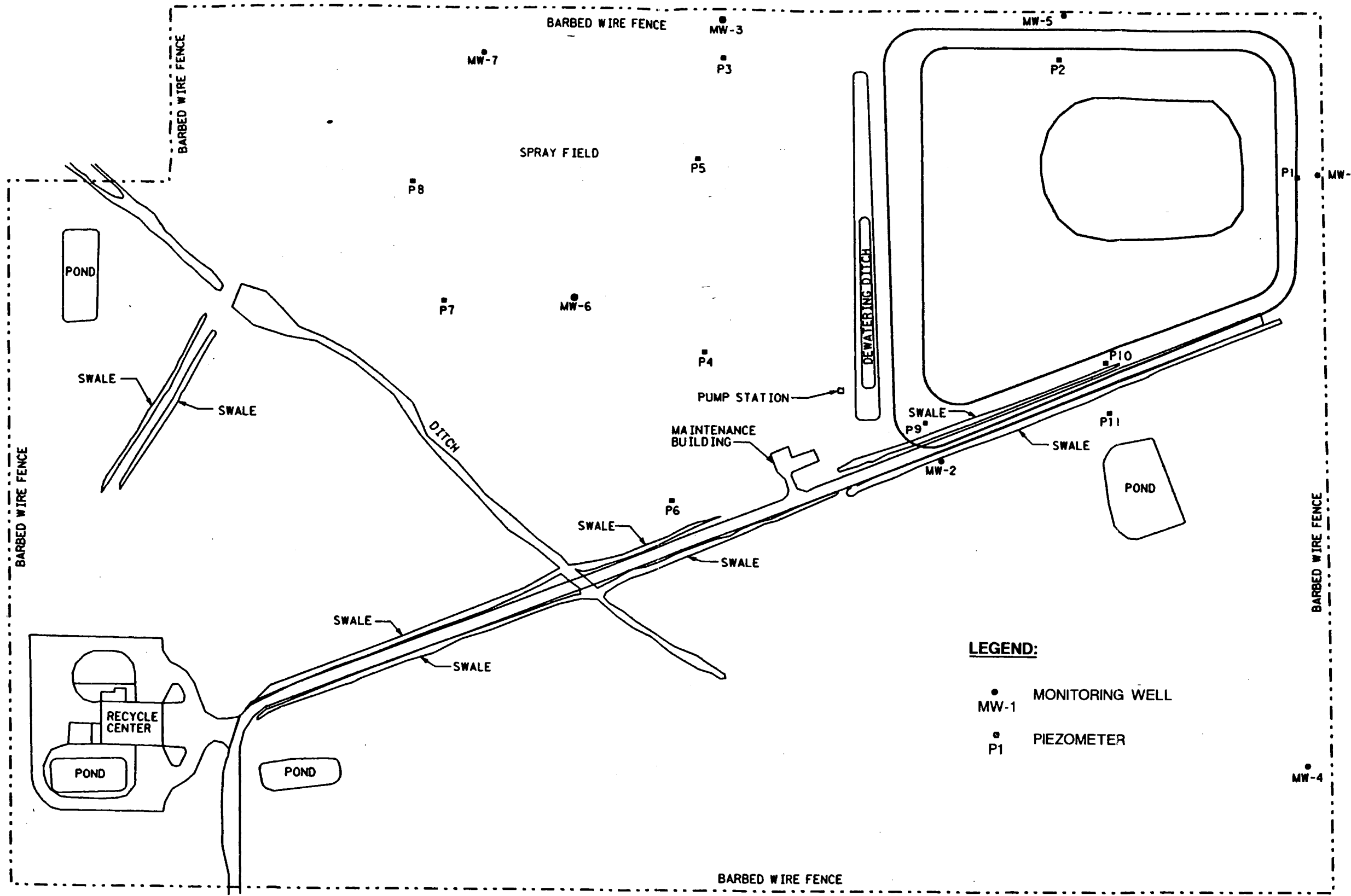
Post, Buckley, Schuh & Jernigan, Inc.

2/26/95
Blanche V. G. Jacob
Blanche V. G. Jacob, P.G.
Project Manager
Hazardous Waste Division
GEO 2 hazardous permit/wr

**HARDEE COUNTY
GROUNDWATER MONITORING WELLS**

WELL	GMS NUMBER	TYPE	ZONE/LOCATION MONITORED
<i>MW-1</i>	<i>4025A14569</i>	<i>Compliance</i>	<i>Shallow Water Table</i>
<i>MW-2</i>	<i>4025A14570</i>	<i>Compliance</i>	<i>Shallow Water Table</i>
<i>MW-3</i>	<i>4025A14571</i>	<i>Compliance</i>	<i>Shallow Water Table</i>
<i>MW-4</i>	<i>4025A14572</i>	<i>Background</i>	<i>Shallow Water Table</i>
<i>MW-5</i>	<i>4025A14573</i>	<i>Compliance</i>	<i>Shallow Water Table</i>
<i>MW-6</i>	<i>4025A14574</i>	<i>Compliance</i>	<i>Shallow Water Table</i>
<i>MW-7</i>	<i>4025A14575</i>	<i>Compliance</i>	<i>Shallow Water Table</i>

LEACHATE COLLECTION POINT: *Leachate collection system prior to entering the dewatering ditch.*



HARDEE COUNTY WASTE RECYCLING CENTER
GROUNDWATER MONITORING WELL AND PIEZOMETER LOCATIONS

FIGURE
1

OSCEOLA LANDFILL

PARAMETER MONITORING REPORT (Rule 17-3.402, 17-3.404, 17-3.406) Ground Water - Semi Annually

GMS # _____ SAMPLE DATE _____

MONITORING WELL # _____ ANALYSIS DATE _____

WELL NAME: _____ WELL TYPE: _____ (B) Background

(SB) Site Boundary

(I) Intermediate

(C) Compliance

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to
Sample Collection (Yes/No) _____ Ground Water Elevation (MSL) _____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	FILTERED/ UNFILTERED	PRESERVATIVES ADDED
000094	Specific Conductivity (field)				umhos/ cm		
000406	pH (Field)				STD		
000299	Dissolved oxygen (field)				mg/L		
082078	Turbidity (field)				NTU'S		
000010	Temperature (field)				°C		
085326	Colors and sheens (by observation)						
000610	Total ammonia - N				mg/L		
000940	Chlorides				mg/L		
001045	Iron				ug/L		
071900	Mercury				ug/L		
000620	Nitrate				mg/L		
000929	Sodium				mg/L		
070300	Total dissolved solids (TDS)				mg/L		

* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

OSCEOLA LANFILL

PARAMETER MONITORING REPORT (Rule 17-3.402, 17-3.404, 17-3.406) Ground Water - Semi Annually

GMS # _____ SAMPLE DATE _____

MONITORING WELL # _____ ANALYSIS DATE _____

WELL NAME: _____ WELL TYPE: _____ (B) Background

(SB) Site Boundary

(I) Intermediate

(C) Compliance

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to
Sample Collection (Yes/No) _____ Ground Water Elevation (MSL) _____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	FILTERED/ UNFILTERED	PRESERVATIVES ADDED
	<u>Inorganic Constituents:</u>						
001097	Antimony						
001002	Arsenic						
001007	Barium						
001012	Beryllium						
001027	Cadmium						
001037	Cobalt						
001042	Copper						
001051	Lead						
001067	Nickel						
0147	Selenium						
001077	Silver						
001059	Thallium						
001087	Vanadium						
001092	Zinc						
	<u>Organic constituents:</u>						
081552	Acetone						
034215	Acrylonitrile						
034030	Benzene						

* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

OSCEOLA LANDFILL

PARAMETER MONITORING REPORT (Rule 17-3.402, 17-3.404, 17-3.406) Ground Water - Semi Annually

GMS # _____ SAMPLE DATE _____

MONITORING WELL # _____ ANALYSIS DATE _____

WELL NAME: _____ WELL TYPE: _____ (B) Background
(SB) Site Boundary
(I) Intermediate
(C) Compliance

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to
Sample Collection (Yes/No) _____ Ground Water Elevation (MSL) _____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	FILTERED/ UNFILTERED	PRESERVATIVES ADDED
073085	Bromochloromethane				ug/L		
032101	Bromodichloromethane				ug/L		
032104	Bromoform; Tribromomethane				ug/L		
046372	Carbon disulfide				ug/L		
032102	Carbon tetrachloride				ug/L		
034301	Chlorobenzene				ug/L		
034311	Chloroethane; Ethyl chloride				ug/L		
032106	Chloroform; Trichloromethane				ug/L		
032105	Dibromochloromethane; Chlorodibromomethane				ug/L		
037860	1,2-Dibromo-3-chloropropane; DBCP				ug/L		
046369	1,2-Dibromoethane; Ethylene dibromide; EDB				ug/L		
034536	o-Dichlorobenzene; 1,2-Dichlorobenzene				ug/L		
034571	p-Dichlorobenzene; 1,4-Dichlorobenzene				ug/L		
077268	trans-1,4-Dichloro-2-butene				ug/L		
034496	1,1-Dichloroethane; Ethylidene chloride				ug/L		
034531	1,2-Dichloroethane; Ethylene dichloride				ug/L		
034501	1,1-Dichloroethylene; 1,1-Dichloroethene; Vinylidene chloride				ug/L		

- Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

OSCEOLA LANDFILL

PARAMETER MONITORING REPORT (Rule 17-3.402, 17-3.404, 17-3.406) Ground Water - Semi Annually

GMS # _____ SAMPLE DATE _____

MONITORING WELL # _____ ANALYSIS DATE _____

WELL NAME: _____ WELL TYPE: _____ (B) Background
(SB) Site Boundary

CLASSIFICATION OF GROUNDWATER G-II (I) Intermediate
(C) Compliance

Well Purged* prior to Sample Collection (Yes/No) _____ Ground Water Elevation (MSL) _____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	FILTERED/ UNFILTERED	PRESERVATIVES ADDED
077093	Cis-1,2-Dichloroethylene; cis-1,2-Dichloroethane				ug/L		
034546	trans-1,2-Dichloroethylene; trans-1,2-Dichloroethane				ug/L		
034541	1,2-Dichloropropane; Propylene dichloride				ug/L		
034704	cis-1,3-Dichloropropene				ug/L		
034699	trans-1,3-Dichloropropene				ug/L		
034371	Ethylbenzene				ug/L		
077103	2-Hexanone; Methyl butyl ketone				ug/L		
034413	Methyl bromide; Bromomethane				ug/L		
034418	Methyl chloride; Chloromethane				ug/L		
046361	Methylene bromide; Dibromomethane				ug/L		
034423	Methylene chloride; Dichloromethane				ug/L		
081595	Methyl ethyl ketone; MEK; 2-Butanone				ug/L		
077424	Methyl iodide; iodomethane				ug/L		
078133	4-Methyl-2-pentanone; Methyl isobutyl ketone				ug/L		
077128	Styrene				ug/L		
077562	1,1,1,2-Tetrachloroethane				ug/L		

* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

OSCEOLA LANDFILL

PARAMETER MONITORING REPORT (Rule 17-3.402, 17-3.404, 17-3.406) Ground Water - Semi Annually

GMS # _____ SAMPLE DATE _____

MONITORING WELL # _____ ANALYSIS DATE _____

WELL NAME: _____ WELL TYPE: _____ (B) Background
(SB) Site Boundary
(I) Intermediate
(C) Compliance

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to
Sample Collection (Yes/No) _____ Ground Water Elevation (MSL) _____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	FILTERED/ UNFILTERED	PRESERVATIVES ADDED
034516	1,1,2,2-Tetrachloroethane				ug/L		
034475	Tetrachloroethylene; Tetrachloroethane; Perchloroethylene				ug/L		
034010	Toluene				ug/L		
034506	1,1,1-Trichloroethane; Methylchloroform				ug/L		
034511	1,1,2-Trichloroethane				ug/L		
039180	Trichloroethylene; Trichloroethene				ug/L		
034488	Trichlorofluoromethane; CPC-11				ug/L		
077443	1,2,3-Trichloropropane				ug/L		
077057	Vinyl acetate				ug/L		
039175	Vinyl chloride				ug/L		
034020	Xylenes				ug/L		

* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

OSCEOLA LANDFILL

PARAMETER MONITORING REPORT (Rule 17-3.402, 17-3.404, 17-3.406) Surface Water - Semi Annually

GMS # _____ SAMPLE DATE _____

MONITORING WELL # _____ ANALYSIS DATE _____

WELL NAME: _____ WELL TYPE: _____ (B) Background
(SB) Site Boundary
(I) Intermediate
(C) Compliance

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to Sample Collection (Yes/No) _____ Ground Water Elevation (MSL) _____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	FILTERED/ UNFILTERED	PRESERVATIVES ADDED
000094	Specific Conductivity (field)						
000406	pH (Field)						
000299	Dissolved oxygen (field)						
082078	Turbidity (field)						
000010	Temperature (field)						
085326	Colors and sheens (by observation)						
000612	Unionized ammonia						
000900	Total hardness						
000310	Biochemical oxygen demand (BOD ₅)						
001042	Copper						
001045	Iron						
071900	Mercury						
000620	Nitrate						
001092	Zinc						
070300	Total dissolved solids (TDS)						
000680	Total organic carbon (TOC)						
074055	Fecal coliform						

* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.
DEP Form 17-522.900(2) Effective September 8, 1992.

OSCEOLA LANDFILL

PARAMETER MONITORING REPORT (Rule 17-3.402, 17-3.404, 17-3.406) Surface Water - Semi Annually

GMS # _____ SAMPLE DATE _____

MONITORING WELL # _____ ANALYSIS DATE _____

WELL NAME: _____ WELL TYPE: _____ (B) Background

(SB) Site Boundary

CLASSIFICATION OF GROUNDWATER G-II (I) Intermediate

(C) Compliance

Well Purged* prior to
Sample Collection (Yes/No) _____ Ground Water Elevation (MSL) _____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	FILTERED/ UNFILTERED	PRESERVATIVES ADDED
000665	Total phosphates						
032211	Chlorophyll A						
000600	Total Nitrogen						
000340	Chemical oxygen demand (COD)						
00530	Total suspended solids (TSS)						

* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.
DEP Form 17-522.900(2) Effective September 8, 1992.

OSCEOLA LANDFILL

PARAMETER MONITORING REPORT (Rule 17-3.402, 17-3.404, 17-3.406) Surface Water - Semi Annually

GMS # _____ SAMPLE DATE _____

MONITORING WELL # _____ ANALYSIS DATE _____

WELL NAME: _____ WELL TYPE: _____ (B) Background

(SB) Site Boundary

(I) Intermediate

(C) Compliance

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to
Sample Collection (Yes/No) _____ Ground Water Elevation (MSL) _____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	FILTERED/ UNFILTERED	PRESERVATIVES ADDED
	<u>Inorganic Constituents:</u>						
001097	Antimony						
001002	Arsenic						
001007	Barium						
001012	Beryllium						
001027	Cadmium						
00137	Cobalt						
001042	Copper						
001051	Lead						
001067	Nickel						
001147	Selenium						
001077	Silver						
001059	Thallium						
001087	Vanadium						
001092	Zinc						
	<u>Organic constituents:</u>						
081552	Acetone						
034215	Acrylonitrile						
034030	Benzene						

* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.
DEP Form 17-522.900(2) Effective September 8, 1992.

OSCEOLA LANDFILL

PARAMETER MONITORING REPORT (Rule 17-3.402, 17-3.404, 17-3.406) Surface Water - Semi Annually

GMS # _____ SAMPLE DATE _____

MONITORING WELL # _____ ANALYSIS DATE _____

WELL NAME: _____ WELL TYPE: _____ (B) Background

(SB) Site Boundary

(I) Intermediate

(C) Compliance

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to
Sample Collection (Yes/No) _____ Ground Water Elevation (MSL) _____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	FILTERED/ UNFILTERED	PRESERVATIVES ADDED
073085	Bromochloromethane						
032101	Bromodichloromethane						
032104	Bromoform; Tribromomethane						
046372	Carbon disulfide						
032102	Carbon tetrachloride						
034301	Chlorobenzene						
034311	Chloroethane; Ethyl chloride						
032106	Chloroform; Trichloromethane						
032105	Dibromochloromethane; Chlorodibromomethane						
037860	1,2-Dibromo-3-chloropropane; DBCP						
046369	1,2-Dibromoethane; Ethylene dibromide; EDB						
034536	0-Dichlorobenzene; 1,2-Dichlorobenzene						
034571	p-Dichlorobenzene; 1,4-Dichlorobenzene						
077268	trans-1,4-Dichloro-2-butene						
034496	1,1-Dichloroethane; Ethylidene chloride						
034531	1,2-Dichloroethane; Ethylene dichloroide						

* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.
DEP Form 17-522.900(2) Effective September 8, 1992.

OSCEOLA LANDFILL

PARAMETER MONITORING REPORT (Rule 17-3.402, 17-3.404, 17-3.406) Surface Water - Semi Annually

GMS # _____ SAMPLE DATE _____

MONITORING WELL # _____ ANALYSIS DATE _____

WELL NAME: _____ WELL TYPE: _____ (B) Background

(SB) Site Boundary

(I) Intermediate

(C) Compliance

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to
Sample Collection (Yes/No) _____ Ground Water Elevation (MSL) _____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	FILTERED/ UNFILTERED	PRESERVATIVES ADDED
034501	1,1-Dichloroethylene; 1,1-Dichloroethene; Vinylidene chloride						
077093	Cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene						
034546	trans-1,2-Dichloroethylene; trans-1,2-Dichloroethene						
034541	1,2-Dichloropropane; Propylene dichloride						
034704	cis-1,3-Dichloropropene						
034699	trans-1,3-Dichloropropene						
034371	Ethylbenzene						
077103	2-Hexanone; Methyl butyl ketone						
034413	Methyl bromide; Bromomethane						
034418	Methyl chloride; Chloromethane						
046361	Methylene bromide; Dibromomethane						
034423	Methylene chloride; Dichloromethane						
081595	Methyl ethyl ketone; MEK; 2-Butanone						
077424	Methyl iodide; iodomethane						
078133	4-Methyl-2-pentanone; Methyl isobutyl ketone						

* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.
DEP Form 17-522.900(2) Effective September 8, 1992.

OSCEOLA LANDFILL

PARAMETER MONITORING REPORT (Rule 17-3.402, 17-3.404, 17-3.406) Surface Water - Semi Annually

GMS # _____ SAMPLE DATE _____

MONITORING WELL # _____ ANALYSIS DATE _____

WELL NAME: _____ WELL TYPE: _____ (B) Background
(SB) Site Boundary
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(C) Compliance

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to
Sample Collection (Yes/No) _____ Ground Water Elevation (MSL) _____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	FILTERED/ UNFILTERED	PRESERVATIVES ADDED
077128	Styrene						
077562	1,1,1,2-Tetrachloroethane						
034516	1,1,2,2-Tetrachloroethane						
034475	Tetrachloroethylene; Tetrachloroethene; Perchloroethylene						
034010	Toluene						
034506	1,1,1-Trichloroethane; Methylenechloroform						
034511	1,1,2-Trichloroethane						
039180	Trichloroethylene; Trichloroethene						
034488	Trichlorofluoromethane; CFC-11						
077443	1,2,3-Trichloropropane						
077057	Vinyl acetate						
039175	Vinyl chloride						
034020	Xylenes						

* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.
DEP Form 17-522.900(2) Effective September 8, 1992.

OSCEOLA LANDFILL

PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404, 17-3.406)

Leachate Monitoring - Semi Annually

GMS # _____

SAMPLE DATE _____

MONITORING WELL # _____

ANALYSIS DATE _____

WELL NAME: _____

WELL TYPE: _____

- (B) Background
- (SB) Site Boundary
- (I) Intermediate
- (C) Compliance

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to

Sample Collection (Yes/No) _____ Ground Water Elevation (MSL) _____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	FILTERED/ UNFILTERED	PRESERVATIVES ADDED
000094	Specific Conductivity (field)						
000406	pH (Field)						
000299	Dissolved oxygen (field)						
	Colors, sheens						
000610	Total ammonia - N						
	Bicarbonate						
000940	Chlorides						
001045	Iron						
071900	Mercury						
000620	Nitrate						
000929	Sodium						
070300	Total dissolved solids (TDS)						

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 DEP Form 17-522.900(2) Effective September 8, 1992.

OSCEOLA LANDFILL

PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404, 17-3.406)

Leachate Monitoring - Semi Annually

GMS # _____

SAMPLE DATE _____

MONITORING WELL # _____

ANALYSIS DATE _____

WELL NAME: _____

WELL TYPE: _____

- (B) Background
- (SB) Site Boundary
- (I) Intermediate
- (C) Compliance

CLASSIFICATION OF GROUNDWATER G-II

Well Purged* prior to
Sample Collection (Yes/No) _____ Ground Water Elevation (MSL) _____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	FILTERED/ UNFILTERED	PRESERVATIVES ADDED
073085	Bromochloromethane						
032101	Bromodichloromethane						
032104	Bromoform; Tribromomethane						
046372	Carbon disulfide						
032102	Carbon tetrachloride						
034301	Chlorobenzene						
034311	Chloroethane; Ethyl chloride						
032106	Chloroform; Trichloromethane						
032105	Dibromochloromethane; Chloro- dibromomethane						
037860	1,2-Dibromo-3-chloropropane; DBCP						
046369	1,2-Dibromoethane; Ethylene dibromide; EDB						
034536	0-Dichlorobenzene; 1,2-Dichlorobenzene						
034571	p-Dichlorobenzene; 1,4-Dichlorobenzene						
077268	trans-1,4-Dichloro-2-butene						
034496	1,1-Dichloroethane; Ethylidene chloride						
034531	1,2-Dichloroethane; Ethylene dichloride						

* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.
DER Form 17-522.900(2) Effective September 8, 1992.

OSCEOLA LANDFILL

PARAMETER MONITORING REPORT (Rule 17-3.402, 17-3.404, 17-3.406) Leachate Monitoring - Semi Annually

GMS # _____ SAMPLE DATE _____

MONITORING WELL # _____ ANALYSIS DATE _____

WELL NAME: _____ WELL TYPE: _____ (B) Background
(SB) Site Boundary

CLASSIFICATION OF GROUNDWATER G-II (I) Intermediate
(C) Compliance

Well Purged* prior to Sample Collection (Yes/No) _____ Ground Water Elevation (MSL) _____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	FILTERED/ UNFILTERED	PRESERVATIVES ADDED
034501	1,1-Dichloroethylene; 1,1-Dichloroethene; Vinylidene chloride						
077093	Cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene						
034546	trans-1,2-Dichloroethylene; trans-1,2-Dichloroethene						
034541	1,2-Dichloropropane; Propylene dichloride						
034704	cis-1,3-Dichloropropene						
034699	trans-1,3-Dichloropropene						
034371	Ethylbenzene						
077103	2-Hexanone; Methyl butyl ketone						
034413	Methyl bromide; Bromomethane						
034418	Methyl chloride; Chloromethane						
046361	Methylene bromide; Dibromomethane						
034423	Methylene chloride; Dichloromethane						
081595	Methyl ethyl ketone; MEK; 2-Butanone						
077424	Methyl iodide; iodomethane						
078133	4-Methyl-2-pentanone; Methyl isobutyl ketone						
077128	Styrene						

* Well purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.
DER Form 17-522.900(2) Effective September 8, 1992.

OSCEOLA LANDFILL

PARAMETER MONITORING REPORT (Rule 17-3.402, 17-3.404, 17-3.406) Leachate Monitoring - Semi Annually

GMS # _____ SAMPLE DATE _____

MONITORING WELL # _____ ANALYSIS DATE _____

WELL NAME: _____ WELL TYPE: _____ (B) Background
(SB) Site Boundary

CLASSIFICATION OF GROUNDWATER G-II (I) Intermediate
(C) Compliance

Well Purged* prior to
Sample Collection (Yes/No) _____ Ground Water Elevation (MSL) _____ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	FILTERED/ UNFILTERED	PRESERVATIVES ADDED
077562	1,1,1,2-Tetrachloroethane						
034516	1,1,2,2-Tetrachloroethane						
034475	Tetrachloroethylene; Tetrachloroethene; Perchloroethylene						
034010	Toluene						
034506	1,1,1-Trichloroethane; Methylchloroform						
034511	1,1,2-Trichloroethane						
039180	Trichloroethylene; Trichloroethene						
034488	Trichlorofluoromethane; CFC-11						
077443	1,2,3-Trichloropropane						
077057	Vinyl acetate						
039175	Vinyl chloride						
034020	Xylenes						

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DER Form 17-522.900(2) Effective September 8, 1992.

Appendix II to this Part 258 - List of Hazardous Inorganic and Organic Constituents¹

Common Name ²	CAS RN ³	Chemical abstracts service index name ⁴	Sug- gested meth- ods ⁵	PCL (µg/ L) ⁶
Acenaphthene	83-32-9	Acenaphthylene, 1,2-dihydro	8100 8270	200 10
Acenaphthylene	208-86-8	Acenaphthylene	8100 8270	200 10
Acetone	67-84-1	2-Propanone	8260	100
Acetonitrile; Methyl cyanide	75-05-8	Acetonitrile	8015	100
Acetophenone	98-86-2	Ethanone, 1-phenyl	8270	10
2-Acetylaminofluorene; 2-AAF	53-96-3	Acetamide, N-9H-fluoren-2-yl	8270	20
Acrolein	107-02-8	2-Propenal	8030	5
Acrylonitrile	107-13-1	2-Propenenitrile	8260 8030	100 5
Aldrin	309-00-2	1,4,5,8-Dimethylnaphthalene, 1,2,3,4,10,10-hexachloro- 1,4,4a,5,8,8a-hexahydro- (1a,4a,4b,5a,8a,8b)-	8080 8270	0.05 10
Aryl chlorides	107-05-1	1-Propene, 3-chloro	8010 8260	5 10
4-Aminobiphenyl	92-67-1	[1,1'-Biphenyl]-4-amine	8270	20
Anthracene	120-12-7	Anthracene	8100 8270	200 10
Antimony	(Total)	Antimony	6010 7040	300 2000
Arsenic	(Total)	Arsenic	7041 6010 7060	30 500 10
Barium	(Total)	Barium	7061 6010 7090	20 20 1000
Benzene	71-43-2	Benzene	8020 8021 8260	2 0.1 5
Benzo(a)anthracene; Benzanthracene	56-55-3	Benzo(a)anthracene	8100 8270	200 10
Benzo(b)fluoranthene	205-99-2	Benzo(b)fluoranthene	8100 8270	200 10
Benzo(k)fluoranthene	207-09-9	Benzo(k)fluoranthene	8100 8270	200 10
Benzo(ghi)perylene	191-24-2	Benzo(ghi)perylene	8100 8270	200 10
Benzo(a)pyrene	50-32-8	Benzo(a)pyrene	8100 8270	200 10
Benzyl alcohol	100-51-6	Benzenemethanol	8270	20
Beryllium	(Total)	Beryllium	6010 7090 7091	3 50 2
alpha-BHC	319-84-8	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1a,2a,3b,4a,5b,5b)-	8080 8270	0.05 10
beta-BHC	319-85-7	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1a,2b,3a,4b,5a,6b)-	8080 8270	0.05 20
delta-BHC	319-86-8	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1a,2a,3a,4b,5a,6b)-	8080 8270	0.1 20

Common Name ²	CAS RN ³	Chemical abstracts service index name ⁴	Sub- stances in CS ⁵	PCU CS ⁶
Dibenz(a,h)anthracene	53-70-3	Dibenz(a,h)anthracene	8100 8270	200 10
Dibenzofuran	132-84-9	Dibenzofuran	8270 8010	10 1
Dibromochloromethane, Chlorodibromomethane	124-48-1	Methane, dibromochloro-	8021 8260 8011	0.2 5 0.1
1,2-Dibromo-3-chloropropane, DBCP	96-12-8	Propane, 1,2-dibromo-3-chloro-	8021 8260 8011	30 25 0.1
1,2-Dibromoethane, Ethylene dibromide, EDB	106-93-4	Ethane, 1,2-dibromo-	8021 8260 8010	10 5 0.1
D-n-butyl phthalate	84-74-2	1,2-Benzenedicarboxylic acid, dibutyl ester	8060 8270 8010	5 10 2
o-Dichlorobenzene, 1,2-Dichlorobenzene	95-50-1	Benzene, 1,2-dichloro-	8020 8021 8120 8260 8270 8010	5 0.5 10 5 10 5
m-Dichlorobenzene, 1,3-Dichlorobenzene	541-73-1	Benzene, 1,3-dichloro-	8020 8021 8120 8260 8270 8010	5 0.2 10 5 10 5
p-Dichlorobenzene, 1,4-Dichlorobenzene	106-46-7	Benzene, 1,4-dichloro-	8020 8021 8120 8260 8270 8010	5 0.1 15 5 10 2
3,3'-Dichlorobenzidine	91-84-1	[1,1'-Ethenyl]-4,4'-diamine, 3,3'-dichloro-	8260	100
trans-1,4-Dichloro-2-butene	110-57-6	2-Butene, 1,4-dichloro-, (E)-	8021	0.5
Dichlorodifluoromethane, CFC 12	75-71-8	Methane, dichlorodifluoro-	8260	5
1,1-Dichloroethane, Ethylidene chloride	75-34-3	Ethane, 1,1-dichloro-	8010 8021 8260	1 0.5 5
1,2-Dichloroethane, Ethylene dichloride	107-06-2	Ethane, 1,1-dichloro-	8010 8021 8260	0.5 0.3 5
1,1-Dichloroethylene, 1,1-Dichloroethene, Vinylidene chloride	75-35-4	Ethene, 1,1-dichloro-	8010 8021 8260	1 0.5 5
cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene	155-39-2	Ethene, 1,2-dichloro-, (Z)-	8021 8260	0.2 5
trans-1,2-Dichloroethylene; trans-1,2-Dichloroethene	156-60-5	Ethene, 1,2-dichloro-, (E)-	8010 8021 8260	1 0.5 5
2,4-Dichlorophenol	120-63-2	Phenol, 2,4-dichloro-	8040 8270	5 10
2,5-Dichlorophenol	87-65-0	Phenol, 2,6-dichloro-	8010	0.5
1,2-Dichloropropane, Propylene dichloride	78-67-5	Propane, 1,2-dichloro-	8021 8260	0.2 5
1,3-Dichloropropane, Trimethylene dichloride	142-28-9	Propane, 1,3-dichloro-	8021 8260	0.3 5
2,2-Dichloropropane, Isopropylidene chloride	594-20-7	Propane, 2,2-dichloro-	8021 8260	0.5 15
1,1-Dichloropropene	563-58-6	1-Propene, 1,1-dichloro-	8021 8260	0.2 5
cis-1,3-Dichloropropene	10061-01-5	1-Propene, 1,3-dichloro-, (Z)-	8010 8260	20 10
trans-1,3-Dichloropropene	10061-02-6	1-Propene, 1,3-dichloro-, (E)-	8010 8260	5 10
Dieldrin	60-57-1	2,7,3,8-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexa-chloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1a,2,2a,3,6,6a,7,7a)-	8060 8270	0.25 10
Diethyl phthalate	84-65-2	1,2-Benzenedicarboxylic acid, diethyl ester	8060 8270	5 10
O,O-Diethyl O-2-pyrazinyl phosphorothioate, Thionazin	297-97-2	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester	8141 8270	5 20
Dimethoate	60-51-5	Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-cyanoethyl] ester	8141 8270	3 20
p-(Dimethylamino)azobenzene	60-11-7	Benzenamine, N,N-dimethyl-4-(phenylazo)-	8270	10
7,12-Dimethylbenz(a)anthracene	57-97-6	Benzo(a)anthracene, 7,12-dimethyl-	8270	10

Common Name ¹	CAS RN ²	Chemical abstracts service index name ⁴	Sug- gested meth- ods ³	PC ⁵ Li ⁶
Lead	(Total)	Lead	8010 7420 7421 7470	400 1000 10 2
Mercury	(Total)	Mercury	8015	5
Methacrylonitrile	125-99-7	2-Propenenitrile, 2-methyl-	8260 8270	100 100
Methacrylene	91-80-5	1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridyl-N1/2-thicyl- methyl-		
Methoxychlor	72-43-5	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy-	8080 8270 8010	2 10 20
Methyl bromide; Bromomethane	74-83-9	Methane, bromo-	8021 8010	10 1
Methyl chloride; Chloromethane	74-87-3	Methane, chloro-	8021 8270	0.3 10
3-Methylcholanthrene	56-43-5	Benz[<i>j</i>]aceanthrylene, 1,2-dihydro-3-methyl-	8015	10
Methyl ethyl ketone; MEK; 2-Butanone	78-93-3	2-Butanone	8260 8010	100 40
Methyl iodide; Iodomethane	74-98-4	Methane, iodo-	8260 8015	10 2
Methyl methacrylate	80-62-8	2-Propenoic acid, 2-methyl-, methyl ester	8260 8270	20 10
Methyl methanesulfonate	66-27-3	Methanesulfonic acid, methyl ester	8270	10
2-Methylnaphthalene	81-57-8	Naphthalene, 2-methyl-	8140	0.5
Methyl parathion; Parathion methyl	298-00-0	Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester	8141 8270	1 10
4-Methyl-2-pentanone; Methyl isobutyl ketone	108-10-1	2-Pentanone, 4-methyl-	8015 8260	5 100
Methylene bromide; Dibromomethane	74-95-3	Methane, dibromo-	8010 8021 8260	15 20 10
Methylene chloride; Dichloromethane	75-09-2	Methane, dichloro-	8010 8021 8260	5 0.2 10
Naphthalene	91-20-3	Naphthalene	8021 8100 8260	0.5 200 5
1,4-Naphthoquinone	130-15-4	1,4-Naphthoquinone	8270	10
1-Naphthylamine	134-32-7	1-Naphthalenamine	8270	10
2-Naphthylamine	91-59-8	2-Naphthalenamine	8270	10
Nickel	(Total)	Nickel	6010 7520	100 400
o-Nitrosiline; 2-Nitrosiline	88-74-4	Benzenamine, 2-nitro-	8270	50
m-Nitrosiline; 3-Nitrosiline	89-09-2	Benzenamine, 3-nitro-	8270	20
p-Nitrosiline; 4-Nitrosiline	100-01-6	Benzenamine, 4-nitro-	8090	40
Nitrobenzene	98-95-3	Benzene, nitro-	8270 8040	10 5
o-Nitrophenol; 2-Nitrophenol	89-75-5	Phenol, 2-nitro-	8270 8040	10 10
p-Nitrophenol; 4-Nitrophenol	100-02-7	Phenol, 4-nitro-	8040 8270	10 50
N-Nitrosod-n-butylamine	924-16-3	1-Butanamine, N-butyl-N-nitroso-	8270	10
N-Nitrosodimethylamine	55-19-5	Ethanamine, N-ethyl-N-nitroso-	8270	20
N-Nitrosodimethylamine	62-75-9	Methanamine, N-methyl-N-nitroso-	8070	2
N-Nitrosodiphenylamine	86-30-8	Benzenamine, N-nitroso-N-phenyl-	8070	5
N-Nitrosodipropylamine; N-Nitroso-N-dipropylamine; Di-n-propylnitrosamine	621-64-7	1-Propanamine, N-nitroso-N-propyl-	8070	10
N-Nitrosomethylethylamine	10595-95-6	Ethanamine, N-methyl-N-nitroso-	8270	10
N-Nitrosopiperidine	100-75-4	Piperidine, 1-nitroso-	8270	20
N-Nitrosopyrrolidine	930-55-2	Pyrrolidine, 1-nitroso-	8270	40
5-Nitro-o-toluidine	99-55-8	Benzenamine, 2-methyl-5-nitro-	8270	10
Parathion	56-38-2	Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester	8141 8270	0.5 10
Pentachlorobenzene	608-83-5	Benzene, pentachloro-	8270	10
Pentachloronitrobenzene	82-68-8	Benzene, pentachloronitro-	8270	20
Pentachlorophenol	87-86-5	Phenol, pentachloro-	8040 8270	5 50
Phenacetin	62-44-2	Acetamide, N-(4-ethoxyphenyl)-	8270	20
Phenanthrene	85-01-8	Phenanthrene	8100 8270	200 10
Phenol	108-95-2	Phenol	8040	1
p-Phenylenediamine	106-50-3	1,4-Benzenediamine	8270	10
Phorate	298-02-2	Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester	8140 8141 8270	2 0.5 10

TABLE 1.—ADDITIONS TO APPENDIX II

Common name	CAS RN
2-Chloroethyl ethyl ether.....	628-34-2
m-Cresol; 3-Methylphenol.....	108-39-4
Dalate.....	2303-16-4
cis-1,2-Dichloroethylene.....	156-59-2
1,3-Dichloropropane; Trimethylene di- chloride.....	142-28-9
2,2-Dichloropropane; Isopropylidene chloride.....	594-20-7
1,1-Dichloropropene.....	563-58-6
Dimethoate.....	60-51-5
Endosulfan sulfate.....	1031-07-8
Ethyl methanesulfonate.....	62-50-0
p-Phenylenediamine.....	106-50-3
o-Toluidine.....	95-53-4
O,O,O-Triethyl phosphorothioate.....	126-68-1
sym-Trirotobenzene.....	99-35-4

TABLE 2.—DELETIONS FROM APPENDIX II

Common name	CAS RN
Allyl alcohol.....	107-18-6
Aluminum.....	7429-90-5
Aniline.....	62-53-3
Benzidine.....	92-87-5
Benzoic acid.....	65-85-0
p-Benzoquinone.....	106-51-4
Calcium.....	7440-43-9
2-Chloroethyl vinyl ether.....	110-75-8
3-Chloropropionitrile.....	542-75-7
Dibenzo[a,j]pyrene.....	189-55-9
Dibenzo[a,e]pyrene.....	192-65-4
Dibenzo[a,h]pyrene.....	163-64-0
Dibenzofurans (tetra-, penta-, and hexachlorodibenzofurans).....	132-64-9
1,4-Dioxane.....	123-91-1
3,3-Dimethylbenzidine.....	119-90-4
alpha, alpha-Dimethylphenethylamine.....	122-09-8
1,2-Diphenylhydrazine.....	122-66-7
Ethylene oxide.....	75-21-8
Fluonde.....	16984-48-8
Hexachlorophene.....	70-30-4
Hexachlorophene.....	7439-89-6
Iron.....	7439-39-4
Magnesium.....	109-77-3
Malononitrile.....	7439-96-5
Manganese.....	7439-96-5

SJA

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 2/10/95 Subject LEAKAGE/WATER BALANCE

Time 11:30 Am Permit No. _____

County HARDEE

M JANICE WILLIAMSON Telephone No. (913) 773-5089

Representing HARDEE Co

[] Phoned Me [] Was Called [] Scheduled Meeting [] Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

Summary of Conversation/Meeting I REQUESTED THE

following from Ms Williamson:

1. Top of Ground Survey for all wells; piezometers & across the entire sprayfields on 100' grid
 2. Records # open, cut & closed across each month, also discuss directional runoff from top to stormwater system
 3. Asked for piezometer readings weekly in p-5, p-6 & p-12, site suggested p-3 & p-4 also
 4. Records # in each space on forms, or explain.
- Ms Williamson said she check each sprayfield head for application rates. she will send results

(continue on another sheet, if necessary)

Signature [Signature] FORD

Title _____

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 1/13/95

Subject GW Reports

Time 3:30

Permit No. _____

County Hardee

M. Ed Hilton

Telephone No. 800 284-5182 x362

Representing PBS+J

Phone Me [] Was Called [] Scheduled Meeting [] Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

Just signed contract w/ the County - will be doing a gw report for them - asked him to address concerns listed in a November letter from FDEP. Response requested by February. Concerns: 17-701.510(1)(a) gw/leachate sampling upgrade, sprayfield op, well turbidity - others listed in letter.

(continue on another sheet, if necessary)

Signature Allison Amram

Title PG1

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 12-29-94 Subject MW-6

Time 2:45 Permit No. _____

County Hardee Telephone No. _____

M Bruce Cummings Representing Short Environmental

Phone Me Was Called Scheduled Meeting Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

MW6 - BDL for xylene this time.
Will send lab results next week.

(continue on another
sheet, if necessary)

Signature Allison American
Title PGJ



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

Mr. J.R. Prestridge, Superintendent
Hardee County Solid Waste Department
P.O. Box 246
Wauchula, FL 33873

December 27, 1994

RE: Hardee County Landfill
Permit No.: S025-214306

Dear Mr. Prestridge:

This letter is to discuss several issues that have arisen from the Department's recent site visit, and the County's recent correspondence with the Department.

**1. Certification of Construction Completeness
Leachate Spray Irrigation System and Underdrains**

On November 16, 1994, an inspection of the above referenced facility relative to construction completion and adherence to the permit issued by the Florida Department of Environmental Protection (FDEP) was made by J.R. Prestridge (Hardee County), Allison Amram (FDEP) and Susan Pelz (FDEP).

Certification of Construction Completion for the leachate spray irrigation system, dated September 6, 1994, has been received by the Department. Based on the information submitted in the certification of Construction Completeness, the site inspection, and subsequent monthly rainfall/leachate data, it appears that the underdrain system is not functioning properly. The leachate level in the trench (elevation +82.08 feet NGVD as of November 1994) must be lower than the invert elevation (+77 feet NGVD) of the underdrain system to effectively drain the leachate from the spray field into the trench. The Department approves the operation of the leachate spray system and underdrain system, pending the results from re-sampling of MW-6 as indicated in the Department's letter dated November 21, 1994 (attached). However, the Department is concerned that the higher leachate levels in the trench will cause a significant gradient of leachate away from the trench which will potentially contaminate the nearby creek. The County must make every effort to lower the leachate level in the trench, and maintain the level below +77 feet NGVD. If the leachate level in the trench cannot be lowered and maintained below +77 feet NGVD, and an outward gradient (away from the trench) exists, the Department may initiate enforcement, or require remedial measures, such as installing a fourth side to the liner system.

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

2. Sequence of Filling

According to the information submitted in your letter dated November 29, 1994, it appears that the northern section of the landfill (Cell Series II(half) and Cell Series III) will not receive additional waste until August 1995. F.A.C. 62-701.500(7)(f) requires that an intermediate cover in addition to the six inch initial cover shall be applied and maintained within seven days of cell completion if additional solid waste will not be deposited within 180 days of cell completion. The landfill may remove all or part of the intermediate cover before placing additional waste or installing final cover. The Department recommends the placement of intermediate cover over this area. A stabilized intermediate cover will minimize the amount of leachate generated, and, if properly maintained, will decrease the amount of stormwater which enters the leachate collection system. Please provide a schedule for the placement of intermediate cover in Cell Series II and III.

3. Water Level Measurements

The Department's letter dated November 21, 1994 indicates that water level measurements may be collected monthly and submitted with leachate generation reports. Please continue to include daily rainfall amounts and water level measurements for the trench in the monthly leachate generation reports.

4. Financial Assurance

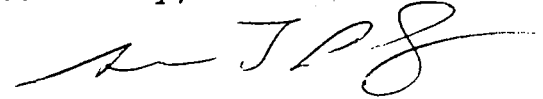
Please be advised that since the County utilizes an escrow account, updated cost estimates for closure and long-term care of the landfill are required to be submitted no later than September 1st each year. To date, revised estimates have not been received by the Southwest District office. Please advise the Southwest District if the estimates dated March 17, 1993 have been inflation adjusted using the inflation factor provided by the Department's Tallahassee office, or if revised estimates will be provided.

5. Reporting Requirements

The Department appreciates the County's diligence in providing quarterly Waste Quantity Reports and the Yard Trash Annual Report. The Department has received the Waste Tire Quarterly report for January through March 1994. Please provide Waste Tire Quarterly reports for April 1994 through December 1994. These reports may be provided by February 28, 1995, in conjunction with the groundwater and gas monitoring reports discussed in the Department's November 21, 1994 letter.

The Department requests that all information be provided to the Solid Waste Section, FDEP, Tampa office within fifteen (15) days of this notice or as stated above. If you have any questions, you may contact me at (813) 744-6100 ext. 386.

Sincerely,



Susan J. Pelz, E.I.
Solid Waste Section
Division of Waste Management

sjp
Attachment

cc: Gary Oden, Hardee County Manager, Room A-204, Courthouse
Annex, 412 W. Orange St., Wauchula, FL 33873-2867
Robert Butera, P.E., FDEP Tampa, w/o attachment
Steve Morgan, FDEP Tampa, w/o attachment
Fred Wick, FDEP, Tallahassee, w/o attachment

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

CERTIFICATION OF CONSTRUCTION COMPLETION
OF A SOLID WASTE MANAGEMENT FACILITY

RECEIVED
SEP 12 1994
BY [Signature] SUPERVISOR
Environmental Protection
SOUTHWEST DISTRICT

DER Construction Permit No.: SO 25-214306 County: Hardee

Name of Project: Hardee County Sanitary Landfill

Name of Owner: Hardee County

Engineer: Wade-Trim

Type of Project: Modifications to leachete disposal system

Cost: Estimated \$ 100,000 Actual \$ 67,000

Site Design: Quantity: 41 ton/day Site Acreage: 95 Acres

Population: 22,600 Dumping Fees: \$ 32 /Ton

Deviations from Plans and Application Approved by DER: _____

Installation of in line filters to prevent clogging of irrigation heads.

Water Monitoring Data Submitted to DER, Date: July 1, 1994

Address and Telephone No. of Site: Airport Road, Wauchula, FL

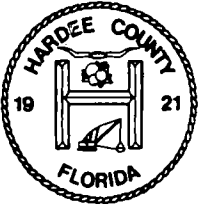
Name(s) of Site Supervisor: J.R. Prestridge

Date Site Inspection is requested: September 21, 1994

This is to certify that, with the exception of deviation noted above, the construction of the project has been completed in accordance with the plans authorized by Construction Permit No.: S025-214 306 Dated: November 29, 1993

Date: 9/6/94

[Signature]
Signature of Professional Engineer
Steven A. Dutch
P.E.
STATE OF FLORIDA
REGISTERED ENGINEER



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

D.E.P.

DEC - 5 1994

SOUTHWEST DISTRICT
TAMPA

November 29, 1994

Department of Environmental Protections
Attention: Susan Pelz
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

Subject: Sequence of Fill

Dear Ms. Pelz:

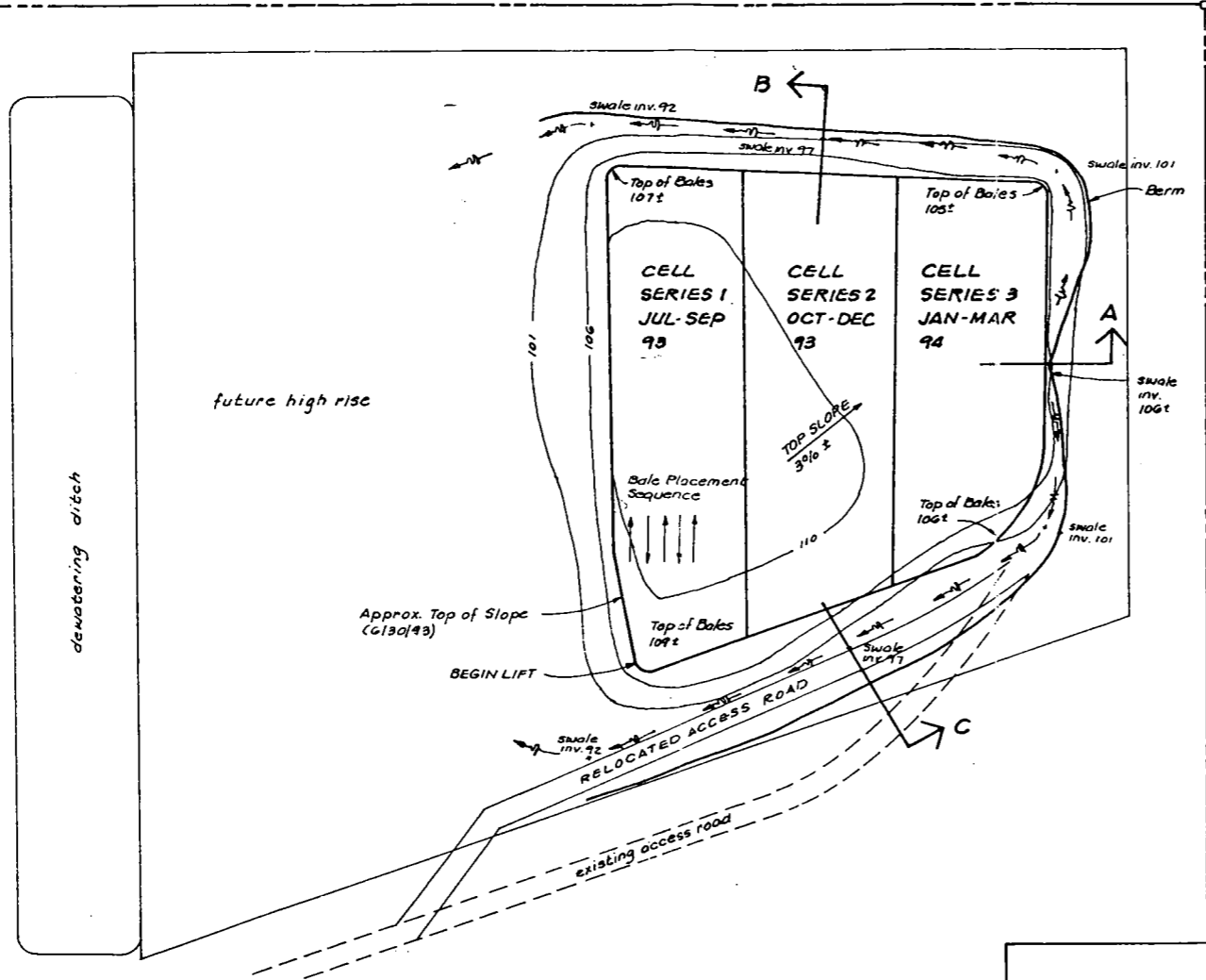
For your information and review we are submitting the sequence of fill to be used for the next year at the Hardee County Sanitary Landfill and the sequence of fill that was completed as of today's date.

The drawings submitted will show you existing bale fill elevations. The new fill will have an estimated rise of six feet (6').

Should you have any questions or comments please contact us.

Sincerely,

J.R. Prestridge,
Solid Waste Superintendent



NOTE
 • Install berm as shown beginning at top of slope to divert runoff and leachate to dewatering ditch.

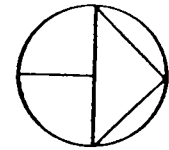
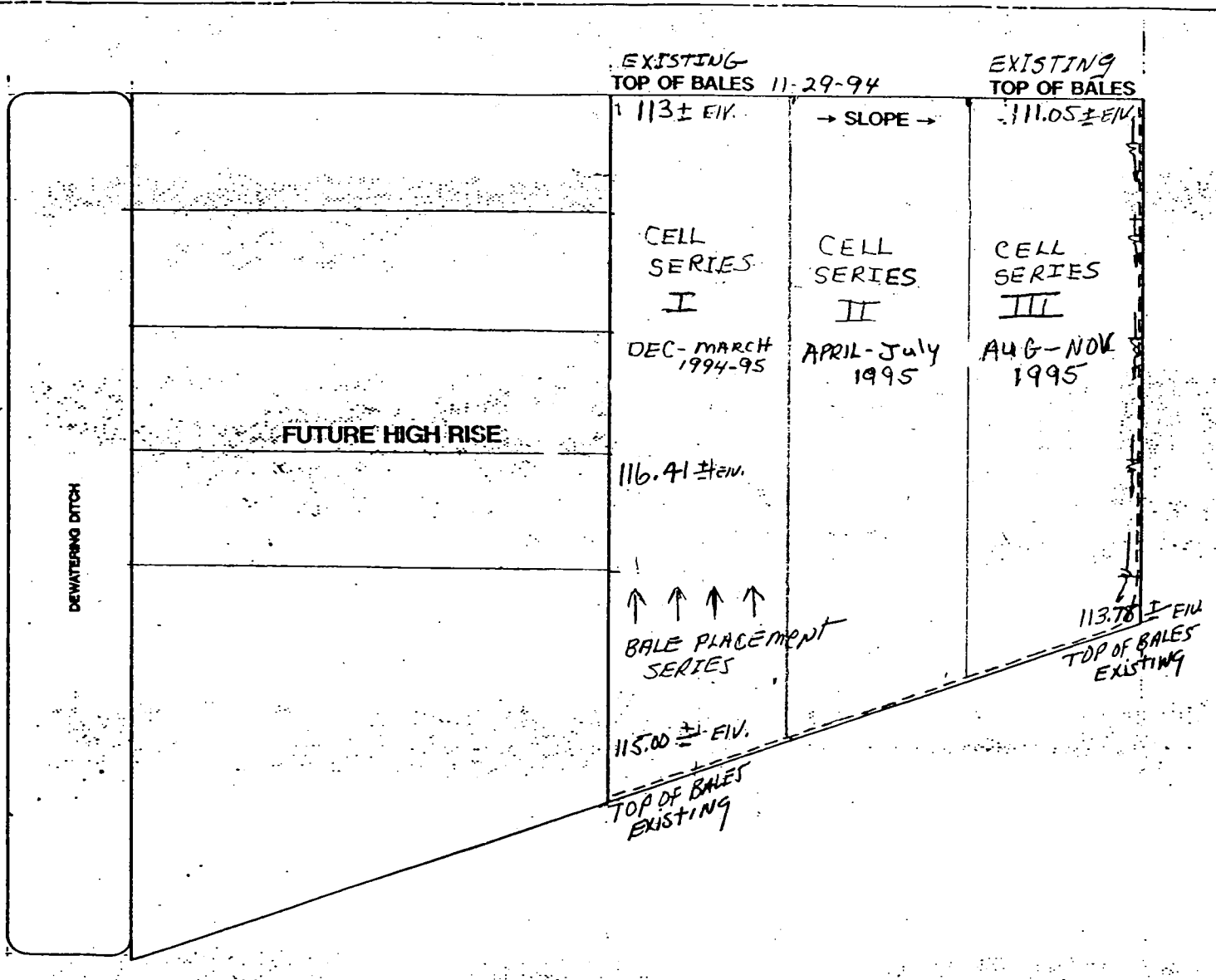
Completed 11/29/94 *JD*

[Signature]
 7/9/93

SEQUENCE OF FILL



Wade-Trim, Inc.
 4919 Memorial Highway
 Suite 200, Tampa, FL 33634
 813-882-8366
 Fax No. 813-884-5990



NORTH

New Sequence of fill

SEQUENCE OF FILL
HARDEE COUNTY LANDFILL

HARDEE County Sanitary Landfill
 JR 11-29-94

Hardee Co.

Florida Department of
Environmental Protection

Memorandum

TO: File

FROM: Allison Amram, P.G. *Amram*

DATE: November 21, 1994

SUBJECT: Hardee and DeSoto Landfill Site Visits 11/16/94

CC: Susan Pelz, E.I.
Stephanie Hinson
Steve Morgan
Bob Butera

=====
Susan and I inspected both the DeSoto and Hardee County landfills on November 16, 1994. This is a brief summary of our visit to supplement the inspection forms.

DeSoto County

DeSoto County is still in permit renewal for their SO, SF and SC (leachate impoundment) permits. The responses to the outstanding incompleteness letters may not meet the Department's January 31, 1995 submittal date. The County is still looking for a permanent landfill engineer to run the operations, and the position was recently readvertised. In the interim, the landfill is being operated by a public works representative "Bucky" Neal. Bucky plans to revise the operating sequence for the landfill, and discussed changing the phase numbering for submittal with the outstanding operations permit. They will be entering the next phase around the first of the year.

One public works representative was working in the household hazardous waste area opening paint cans, so that the paint could dry and the cans then disposed of in the landfill. This worker stated that he did not open the chemical containers, but he was opening cans of wood stain and varnishes.

November 21, 1994

Page 2

Hardee County

The inspection was conducted at the landfill only, as the baling operations were shut down for the day. A copy of the inspection form is attached.

I discussed with JR Prestridge and Janice Williams the detection of 11 ug/l benzene in monitoring well MW-6, which is downgradient of the leachate sprayfield. They will resample as quickly as possible to see if the benzene is still there, but it will most likely be collected with the next quarterly samples, which will be collected soon. This is the first detection of benzene in this well. One other well, MW-2, had just barely detectable levels of benzene two quarters ago, but it did not reappear. If benzene is in the well, it may limit the sprayfield use, or be the basis for lining the fourth side of the landfill. JR suggested the lining, and we agreed that it would be the most acceptable option for continuing the sprayfield.

We also discussed the annual groundwater report. Since the permit was issued in November 1993, it should be submitted this month. I asked if they could have it ready by February 1995, and they thought that it was a reasonable timeframe. In this report, they should also ask for a modification of their groundwater and leachate sampling, as required by Rule 62-701.510(1)(a). This will initiate sampling on a semi-annual basis, if applicable to their site. They should also evaluate the need to redevelop some of the site wells that are producing high turbidities, and periodic sampling of the ditch/creek that runs offsite during the wet season. The weekly collection of water levels can be reduced to monthly, and I will send the County a letter stating that. The water levels were to show sprayfield groundwater levels prior to and after start up of the new sprayfield system. The sprayfield has been operational several months, and no changes are observed that do not appear to correlate with rainfall. The underdrains for the sprayfield were placed at an elevation of 77 feet MSL, and the ditch water level is about 83 MSL. It does not appear that the underdrains will work until the ditch is lowered below 77 feet MSL.

They have recently hired PBS&J as their engineering consultant, and they will be doing the annual groundwater report.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION
 RESOURCE RECOVERY AND MANAGEMENT FACILITY INSPECTION REPORT

GMS I.D. No. _____ Inspection Date: 11/16/94
 Facility Name: De Soto Co LF Permit No.: 5014-162529 Expiration Date: 4/15/94
 Address (or location by section, township and range): _____
 City: _____ State: _____ Zip: _____
 Permittee or Operating Authority: _____
 Address (Mailing): _____ City: _____ State: _____ Zip: _____
 Telephone Number (Permittee or Operating Authority): () _____

Inspection Participants - Include All Landfill and Department Employees Specifying Titles (Indicate Principal Inspector) Bucky Neal, Susan Peitz, Allison Anderson

TYPE OF FACILITY:
 Sanitary Landfill
 Class I
 Class II
 Class III: Trash/Yard Trash
 Class III: Yard Trash Composting
 Volume Reduction
 Composting
 Shredder
 Incinerator/Trench Burner
 Resource Recovery
 Energy Materials

TYPE OF INSPECTION:
 Construction Completion (___ phase)
 Operation
 Closure
 Post-Closure
 Reinspection
 Complaint Response
 Facility File Review
 Other

REQUIREMENTS

THE REQUIREMENTS LISTED ON THIS INSPECTION REPORT ARE BASED UPON RULES OF THE FLORIDA ADMINISTRATIVE CODE. A "NO" RESPONSE TO A REQUIREMENT (UNLESS OTHERWISE NOTED) REFLECTS A VIOLATION OF THE CORRESPONDING DEPARTMENT RULE(S). EACH VIOLATION IS DISCUSSED IN THE NARRATIVE SECTION OF THIS REPORT.

	Yes	No	Unk	N/A
I CONSTRUCTION VERIFICATION				
1. Subgrade or foundation adequately prepared? 17-7.050(4)(a)(d)				
2. Liner construction/installation according to plans? 17-7.050(4)(a)(c)(d)				
3. Leachate control system installation according to plans? 17-7.050(4)(e)(f)				
4. Surface water management system construction according to plans? 17-7.050(4)(g)(h)				
5. Gas control system installation according to plans? 17-7.050(4)(i)(j)				
6. Groundwater monitoring system constructed per approved plan? 17-7.050(3)(e)(5)(a)				
II OPERATIONS				
7. Copy of approved drawings, plans, reports, operational plan, supporting information, and permit kept on-site? 17-7.030(8)	X			
8. All permit specific conditions complied with? 17-7.030(1)		X		
9. Only permitted waste types disposed of? 17-7.050(1)	X			
10. Sludge properly disposed of at site (indicate type in "comments")? 17-7.050(1)				X
11. Waste quantity/type records kept and forwarded as required? 17-7.050(5)(c)			X	
12. Weighing or measuring of incoming waste? 17-7.050(5)(b)	X			
13. Method and sequence of filling waste according to plans? 17-7.050(5)(b)	X			
14. Waste compaction as required? 17-7.050(5)(j)	X			
15. Working face/grades above ground no greater than a slope of 30 degrees? 17-7.050(5)(k)			X	
16. Narrow working face practiced? 17-7.050(5)(l)	X			
17. Attendant present? 17-7.050(5)(d)	X			
18. Sufficient operating equipment? 17-7.050(5)(e)	X			
19. Sufficient reserve equipment (or other arrangements)? 17-7.050(5)(e)	X			
20. Safety devices on equipment to shield and protect operators? 17-7.050(5)(e)			X	
21. Adequate communication facilities? 17-7.050(5)(d)	X			
22. Salvaging or resource recovery under control of operating authority? 17-7.050(5)(q)	X			
23. Burning of allowable wastes only, in a properly operated incinerator/trench burner with a valid air permit? 17-7.060(1)				X
24. Proper control or disposal of asbestos and other special wastes? 17-7.060			X	
25. Required signs for operational directions and public information? 17-7.050(5)(c)	X			

Department copy (white)
 Facility copy (yellow)

REQUIREMENTS

III MAINTENANCE

	Yes	No	Unk	N/A
26. Effective and intact barrier to prevent unauthorized entry and dumping? 17-7.050(5)(c)	X			
27. Adequate vector control by approved methods? 17-7.050(5)(p)	X			
28. Disposal area easily accessible? 17-7.050(2)(c)(5)(c)	X			
29. Retention and/or detention ponds/ditches, culverts, berms maintained? 17-7.050(4)(g)(h)		X		
30. Adequate approved dust control methods? 17-7.050(5)(c)	X			
31. Litter control maintained? 17-7.050(5)(c)		X		
32. Fire protection and fire fighting facilities adequate and operational? 17-7.050(5)(c)	X			
33. Groundwater wells intact and functioning properly? 17-7.075(6)			X	
34. Gas vents intact and functioning properly? 17-7.050(5)(i)			X	

IV WATER MANAGEMENT AND MONITORING

35. Groundwater sampling and testing according to standard procedures and at required frequency? 17-7.050(3)(e)(5)(a)	X			
36. Mixing of leachate and stormwater prevented or minimized? 17-7.050(4)(h)	X			
37. Stormwater runoff controlled, collected, treated as required? 17-7.050(4)(h)(5)(g)	X			
38. Leachate control, collection and treatment as required? 17-7.050(4)(e)(5)(h)	X			

V COVER

39. Adequate quantity of acceptable cover material on hand? 17-7.050(2)(c)	X			
40. Frequency, amount and quality of initial cover, as required? 17-7.050(5)(m)	X			
41. Frequency, amount and quality of intermediate cover, as required? 17-7.050(5)(n)	X			
42. Frequency, amount and quality of final cover, as required? 17-7.050(5)(o); 17-7.073(6)(c)		X		
43. Adequate erosion control? 17-7.073(6)(c)		X		

VI CLOSURE

44. Final cover installation according to approved design plans and present condition and function adequate? 17-7.073(6)(c)				
45. Facility meets closure requirements prohibiting unauthorized dumping? 17-7.073(6)(h)				
46. All actions for closure completed satisfactorily according to approved closure operation plan? 17-7.073(7)				
47. Final survey and as-built report with all survey monuments and other permanent markers installed satisfactorily? 17-7.074(2)(3)				
48. Authorized use of closed landfill and integrity of environmental protection measures maintained? 17-7.074(6)(7)				
49. Long term care performed adequately? 17-7.075				

VII NON-LANDFILL SITES

50. Volume reduction plant operation in compliance with all permit conditions and other applicable requirements? 17-7.090				
51. Transfer station operation in compliance with all requirements and general permit conditions? 17-7.091				
52. Milling facility in compliance with all required conditions of operation? 17-7.060(4)				
53. Resource recovery facility in compliance with all permit conditions and applicable requirements? 17-7.090				

VIII NARRATIVE

Explanation for all "no" responses and other comments (continue on separate sheet if necessary)

#8. leachate level information not provided (sc#7) * check DEP files
 Financial Assurance cost estimates & funding not current (sc#42)

#29 Storm water ditches need to be mowed, Ditch on south side of CBD area needs to be mowed & debris (litter) removed.

#31 Litter observed south of Active ZONE 1 and in stormwater retention area, Litter observed south of CBD area.

Signed: J. P. [Signature] 11/16/94 Date: A. D. [Signature] 11/16/94 Date

DER Representative Date Site Representative Date

Department copy (white)
 Facility copy (yellow)

VIII NARRATIVE

Explanation for all "no" responses and other comments (continued)

#42. Final cover is req'd on a portion of zone 1 and has not yet been applied (permit in process)

#43. Numerous areas of erosion on west side of zone 1 and south side of zone 1.

NOTE: Area west of zone 1, berm between zone 1 and rain cell covered area (zone 2) is much better. Sodded berm seems to be adequately separating stormwater from leachate (from zone 1).

Signed: [Signature]
DER Representative

11/16/94
Date

Received: [Signature] 11/16/94
Site Representative Date

Department copy (white)
Facility copy (yellow)

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION
 RESOURCE RECOVERY AND MANAGEMENT FACILITY INSPECTION REPORT

GMS I.D. No. _____ Inspection Date: 11/16/94

Facility Name: Hardee Co LF Permit No.: 5025-214306 Expiration Date: _____

Address (or location by section, township and range): _____

City: _____ State: _____ Zip: _____

Permittee or Operating Authority: _____

Address (Mailing): _____ City: _____ State: _____ Zip: _____

Telephone Number (Permittee or Operating Authority): () _____

Inspection Participants - Include All Landfill and Department Employees Specifying Titles (Indicate Principal Inspector) JR MacIntyre, Susan Pele, Allison Amann

TYPE OF FACILITY:

- Sanitary Landfill
 Class I
 Class II
 Class III: Trash/Yard Trash
 Class III: Yard Trash Composting
- Volume Reduction
 Composting
 Shredder
 Incinerator/Trench Burner
 Resource Recovery
 Energy Materials

TYPE OF INSPECTION:

- Construction Completion (____ phase)
 Operation
- Closure
 Post-Closure
- Reinspection
 Complaint Response
- Facility File Review
 Other

REQUIREMENTS

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6. Groundwater monitoring system constructed per approved plan? 17-7.050(3)(e)(5)(a)				
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7. Copy of approved drawings, plans, reports, operational plan, supporting information, and permit kept on-site? 17-7.030(8)	X			
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13. Method and sequence of filling waste according to plans? 17-7.050(5)(b)	X			
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15. Working face/grades above ground no greater than a slope of 30 degrees? 17-7.050(5)(k)	X			
16. Narrow working face practiced? 17-7.050(5)(l)	X			
17. Attendant present? 17-7.050(5)(d)	X			
18. Sufficient operating equipment? 17-7.050(5)(e)	X			
19. Sufficient reserve equipment (or other arrangements)? 17-7.050(5)(e)	X			
20. Safety devices on equipment to shield and protect operators? 17-7.050(5)(e)			X	
21. Adequate communication facilities? 17-7.050(5)(d)	X			
22. Salvaging or resource recovery under control of operating authority? 17-7.050(5)(q)	X			
23. Burning of allowable wastes only, in a properly operated incinerator/trench burner with a valid air permit? 17-7.060(1)				X
24. Proper control or disposal of asbestos and other special wastes? 17-7.060			X	
25. Required signs for operational directions and public information? 17-7.050(5)(c)	X			

Department copy (white)
 Facility copy (yellow)

REQUIREMENTS

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27. Adequate vector control by approved methods? 17-7.050(5)(p)	X			
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35. Groundwater sampling and testing according to standard procedures and at required frequency? 17-7.050(3)(e)(5)(a)				
36. Mixing of leachate and stormwater prevented or minimized? 17-7.050(4)(h)		X		
37. Stormwater runoff controlled, collected, treated as required? 17-7.050(4)(h)(5)(g)			X	
38. Leachate control, collection and treatment as required? 17-7.050(4)(e)(5)(h)	X	X	X	
V COVER				
39. Adequate quantity of acceptable cover material on hand? 17-7.050(2)(c)	X			
40. Frequency, amount and quality of initial cover, as required? 17-7.050(5)(m) <i>see note</i>	X			
41. Frequency, amount and quality of intermediate cover, as required? 17-7.050(5)(n)			X	
42. Frequency, amount and quality of final cover, as required? 17-7.050(5)(o);17-7.073(6)(c)		X		
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VII NON-LANDFILL SITES				
50. Volume reduction plant operation in compliance with all permit conditions and other applicable requirements? 17-7.090			X	
51. Transfer station operation in compliance with all requirements and general permit conditions? 17-7.091				
52. Milling facility in compliance with all required conditions of operation? 17-7.060(4)				
53. Resource recovery facility in compliance with all permit conditions and applicable requirements? 17-7.090				

VIII NARRATIVE * initial cover has greatly improved.

Explanation for all "no" responses and other comments (continue on separate sheet if necessary)

36. Leachate apparently discharged over North west side ~~and~~ ~~to~~ stormwater ~~ditch~~ ditch

38. see 36.

42. ~~the~~ areas which will not be disposed in for greater than 180 days have not been (temporarily) closed

43. few areas on west side showed signs of erosion.

Signed: [Signature] 11/16/94 Received: [Signature] 11/16-94
 DER Representative Date Site Representative Date

Department copy (white)
 Facility copy (yellow)



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

November 21, 1994

J.R. Prestridge
Solid Waste Superintendent
Post Office Box 246
Wauchula, Florida 33873

Subject: Groundwater and Gas Monitoring Concerns
Hardee County Landfill, SO25-214306

Dear J.R.:

During our site visit on November 16, 1994, we discussed several groundwater and gas monitoring concerns. The purpose of this letter is to summarize our discussions and to transmit the information that you have requested.

Gas Monitoring

In response to your request for construction of gas migration monitoring probes, two typical designs are attached.

Groundwater Monitoring

Specific Condition No. 46 requires a groundwater monitoring plan evaluation annually. As the permit was issued in November 1993, this evaluation should be forthcoming from the County. As we discussed, you may submit plan by February 28, 1995 for the first annual groundwater report. In addition to the items listed in the permit condition, the groundwater report should address these site conditions:

- Possible benzene contamination downgradient of the sprayfield. If the benzene concentration is confirmed, then the facility shall initiate assessment monitoring, in accordance with Rule 62-701.510(7), and Specific Condition No. 42 of the landfill operating permit. (The regulations of Chapter 17 have recently been renumbered to Chapter 62. The solid waste rule was formerly Chapter 17-701, and now is Chapter 62-701).
- Ways to reduce turbidity in the site monitoring wells. Some wells are producing such high turbidity that a representative groundwater sample is difficult to collect.
- The Florida Solid Waste Rule 62-701.510(1)(a) required all operating landfills to apply for a permit modification to groundwater and leachate sampling by October 9,

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Printed on recycled paper.

Mr. J.R. Prestridge
November 21, 1994
Page 2

1994, in order to come into compliance with the current regulations. Because this request is mandated by the rule, no permit modification fee is required.

- An evaluation of the need to monitor surface water as required by Rule 62-701.510(4)(a).

Other groundwater items discussed were the water level measurement frequency, and the groundwater standards for parameters monitored quarterly. Water levels have been measured weekly at the facility since January 1994 in order to establish groundwater flow conditions in the area of the sprayfield. It was hoped that the installation of the new sprayfield would show no mounding of groundwater adjacent to the trench. No observable changes have been noted that would be attributed to something other than rainfall. For this reason, water levels may be collected monthly, and submitted with the leachate generation reports.

Attached are the groundwater standards for the landfill. Because the surficial aquifer could be used as a potential drinking water source, the primary drinking water standards of Rule 62-550.310 apply to the site. If you detect a primary parameter at a concentration greater than the maximum contaminant level, and it is also greater than the concentration of that parameter in the background well (MW-4), the County should retest that well for that parameter to confirm the presence of that parameter. Specific Condition No. 42 allows for retesting to occur within 15 days of receipt of the sample results in order to determine if an exceedance is truly present.

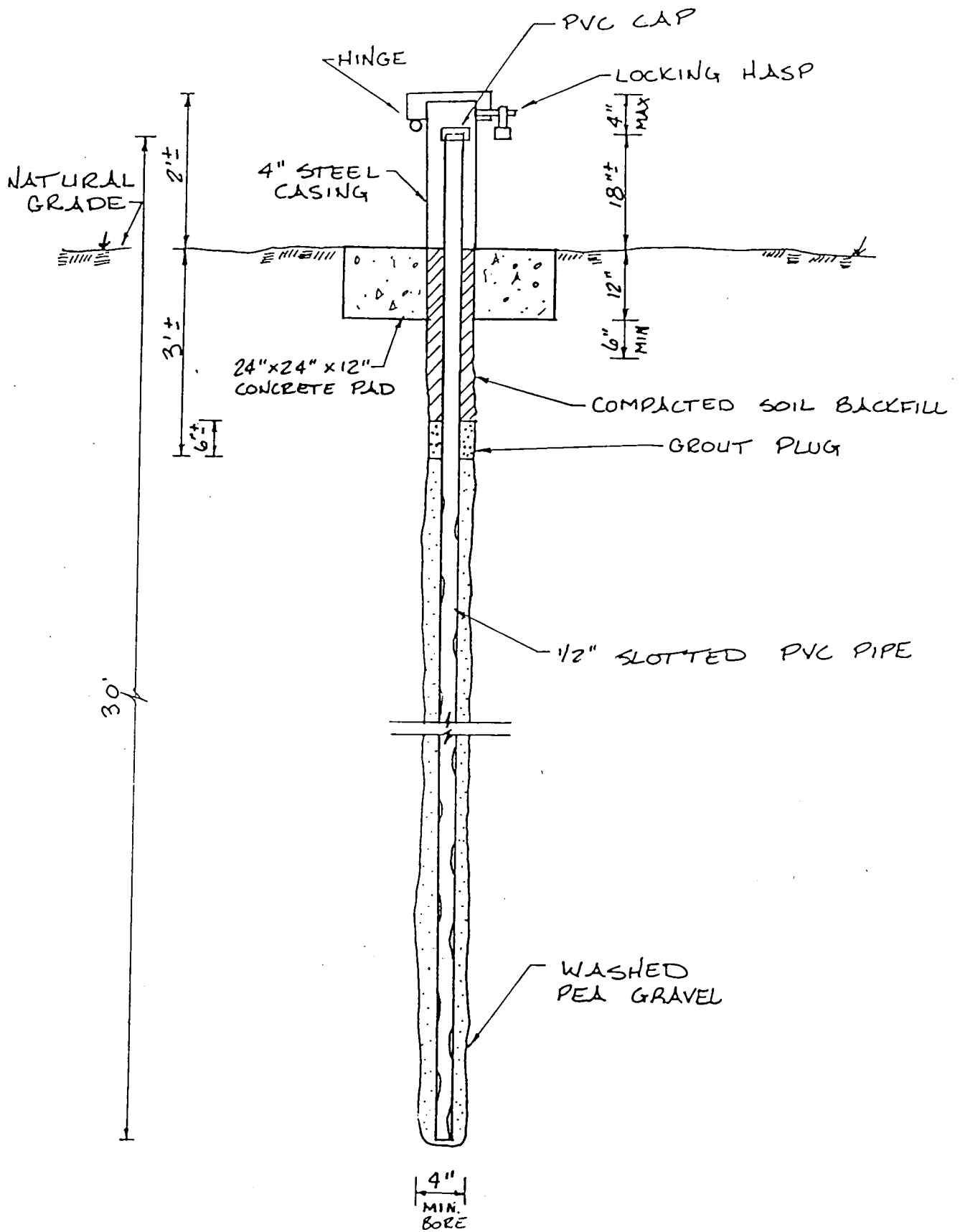
Sincerely,



Allison Amram, P.G.
Solid Waste Section

Attachments

cc: Gary Oden, Hardee County Manager
Susan Pelz, E.I., FDEP
Bob Butera, P.E., FDEP



TYPICAL DETAIL
OF GAS MONITORING PROBE
 NOT TO SCALE

Figure 7

IDENTIFICATION TAG
IMBEDDED IN
CONCRETE PAD

VALVE BOX
RATED FOR TRAFFIC LOADING

LOCKABLE CAP

FINISHED GRADE

4' SQ. x 6" CONCRETE PAD

6" DEEP SILICA PEA GRAVEL

HIGH SOLIDS HYDRATED BENTONITE

20/30 SILICA SAND PACK

1" SCH 40 PVC RIGID THREADED PIPE.
SLOTTED 0.010"

1" PVC CAP

BRASS IDENTIFICATION TAG
2" DIA. x 1/8" THK.

MONITORING
PROBE NO.

LFGMP-1

30'

PROBE DEPTH

DETAIL 1-TYPICAL MONITORING PROBE

N.T.S.

DETAIL 2-IDENTIFICATION TAG

N.T.S.

DEPTH OF LFC MONITORING PROBE

2'

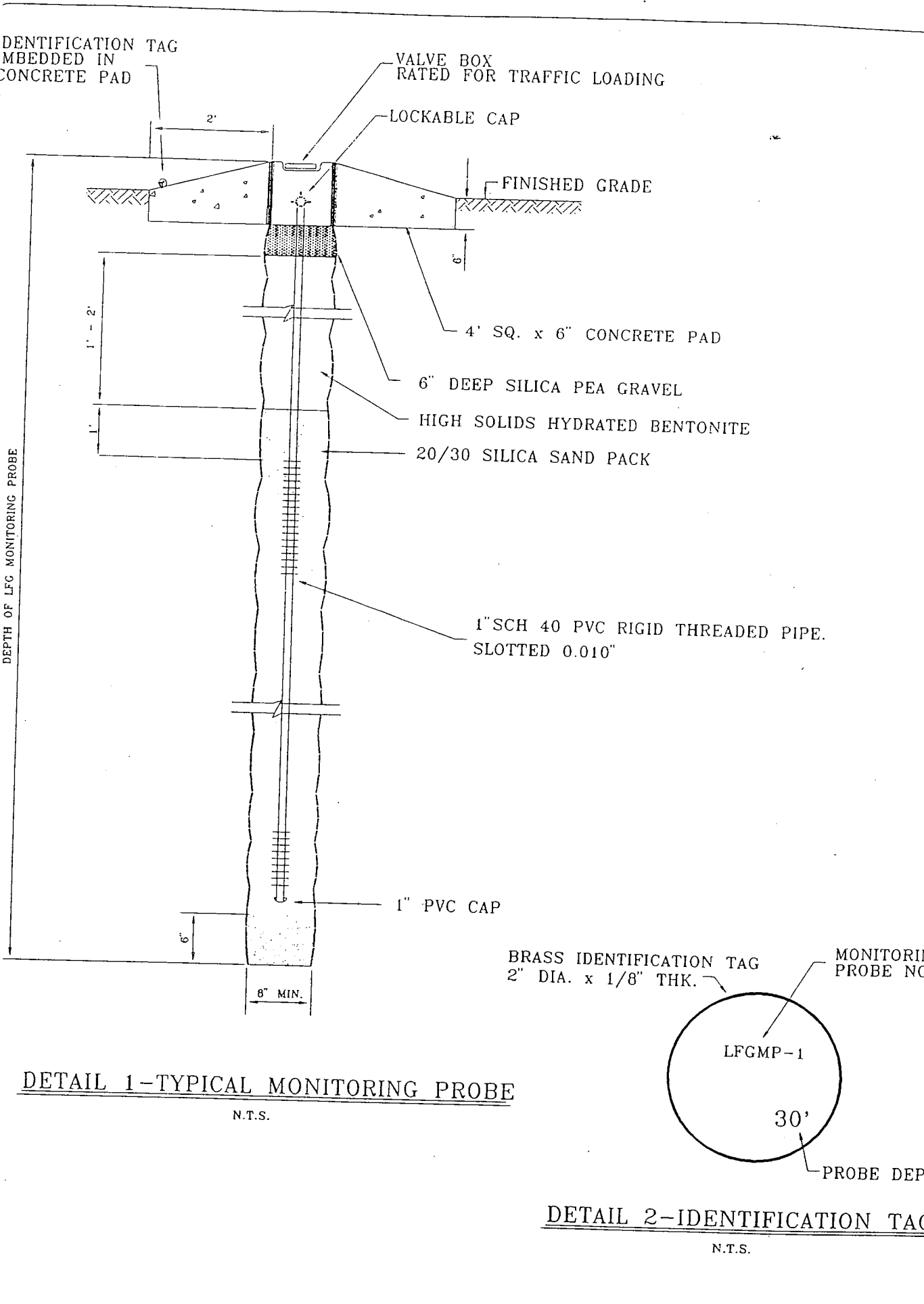
6"

1' - 2'

1'

6"

8" MIN.



DRINKING WATER STANDARDS, MONITORING, AND REPORTING

Specific Authority: 403.861(9), F.S.

Law Implemented: 403.853, 403.862, F.S.

History: New 11-9-77; Amended 1-13-81, 11-19-87; Formerly 17-22.103; Amended 1-18-89, 5-7-90, 1-3-91, 1-1-93.

PART III QUALITY STANDARDS

62-550.300 Application of Quality Standards to Public Water Systems.

The ultimate concern of a public drinking water program is the quality of piped water for human consumption when the water reaches the consumers. The following rules establish the maximum contaminant levels for the water within public water systems. Public water systems shall not exceed the maximum contaminant levels established herein unless granted a variance or exemption pursuant to Rules 62-560.510 or 62-560.520, F.A.C., or identified as excluded from the standards by this Chapter. Public water systems shall take necessary corrective action approved by the Department to meet all applicable standards. Treatment techniques in lieu of maximum contaminant levels for surface water systems or ground water systems under the direct influence of surface water are referenced in Rule 62-555.600, F.A.C., Scope of Additional Requirements For Surface Water Systems.

Specific Authority: 403.861(9), F.S.

Law Implemented: 403.852(12), (13), 403.853(1), F.S.

History: New 11-9-77; Amended 1-13-81, 3-30-82, 5-23-84, 11-19-87; Formerly 17-22.200; Amended 1-18-89, 1-3-91.

62-550.310 Primary Drinking Water Standards Maximum Contaminant Levels. (These standards may also apply as ground water quality standards as referenced in Chapter 62-520, F.A.C.)

(1) INORGANICS - Except for nitrate and nitrite, which apply to all public water systems, this subsection applies to community water systems and non-transient non-community water systems only.

(a) The maximum contaminant levels for the inorganic contaminants are listed in Table 1 which is incorporated herein and appears at the end of this Chapter.

(b) The maximum contaminant level for nitrate (as N) applicable to non-community water systems is 10 milligrams per liter. The Department or Approved County Public Health Unit shall allow a contaminant level for nitrate (as N) of up to 20 milligrams per liter upon a showing by the supplier of water that the following conditions are met:

1. The water distributed by the water system is not available to children under 6 months of age or to lactating mothers, and

2. There is continuous public notification of what the nitrate level (as N) is and the potential health effects of such exposure are.

3. The Department shall require monitoring every 3 months as long as the maximum contaminant level is exceeded. Should adverse health effects occur, the Department shall require immediate compliance with the maximum contaminant level for nitrate (as N).

TABLE I
 MAXIMUM CONTAMINANT LEVELS FOR INORGANIC COMPOUNDS

FEDERAL CONTAMINANT ID NUMBER	CONTAMINANT	MCL (mg/L)
1074	Antimony	0.006
1005	Arsenic	0.05
1094	Asbestos	7 MFL
1010	Barium	2
1075	Beryllium	0.004
1015	Cadmium	0.005
1020	Chromium	0.1
1024	Cyanide	0.2
1025	Fluoride	4
1030	Lead	0.015
1035	Mercury	0.002
1036	Nickel	0.1
1040	Nitrate	10 (as N)
1041	Nitrite	1 (as N)
1045	Selenium	0.05
1052	Sodium	160
1085	Thallium	0.002

These are the levels that you shouldn't exceed. Retest the water if you detect any heavy metals or organics.

Abbreviations used: MCL = maximum contaminant level
 MFL = million fibers per liter greater than 10 micrometers.
 mg/L = milligrams per liter

TABLE 2
 MAXIMUM CONTAMINANT LIMITS FOR VOLATILE ORGANIC COMPOUNDS

FEDERAL CONTAMINANT ID NUMBER	CONTAMINANT & (CAS NUMBER)	MCL (mg/L)
2977	1,1-Dichloroethylene (75-35-4)	0.007
2981	1,1,1-Trichloroethane (71-55-6)	0.2
2985	1,1,2-Trichloroethane (79-00-5)	0.005
2980	1,2-Dichloroethane (107-06-2)	0.003
2983	1,2-Dichloropropane (78-87-5)	0.005
2378	1,2,4-Trichlorobenzene (120-82-1)	0.07
2990	Benzene (71-43-2)	0.001
2982	Carbon tetrachloride (56-23-5)	0.003
2380	cis-1,2-Dichloroethylene (156-59-2)	0.07
2964	Dichloromethane (75-09-2)	0.005
2992	Ethylbenzene (100-41-4)	0.7
2989	Monochlorobenzene (108-90-7)	0.1
2968	o-Dichlorobenzene (95-50-1)	0.6
2969	para-Dichlorobenzene (106-46-7)	0.075
2996	Styrene (100-42-5)	0.1
2987	Tetrachloroethylene (127-18-4)	0.003
2991	Toluene (108-88-3)	1
2979	trans-1,2-Dichloroethylene (156-60-5)	0.1
2984	Trichloroethylene (79-01-6)	0.003
2979	Vinyl chloride (75-01-4)	0.001
2955	Xylenes (total) (1330-20-7)	10

Abbreviations used: MCL = maximum contaminant level
 mg/L = milligrams per liter
 CAS Number = Chemical Abstract System Number

TABLE 3
 MAXIMUM CONTAMINANT LIMITS FOR PESTICIDES AND PCBs

CONTAMINANT ID NUMBER	CONTAMINANT & CAS NUMBER	MCL (mg/L)
2063	2,3,7,8-TCDD (Dioxin) (1746-01-6)	3 X 10 ⁻⁸
2105	2,4-D (94-75-7)	0.07
2110	2,4,5-TP (Silvex) (93-72-1)	0.05
2051	Alachlor (15972-60-8)	0.002
2050	Atrazine (1912-24-9)	0.003
2306	Benzo(a)pyrene (50-32-8)	0.0002
2046	Carbofuran (1563-66-2)	0.04
2959	Chlordane (57-74-9)	0.002
2031	Dalapon (75-99-0)	0.2
2035	Di(2-ethylhexyl)adipate (103-23-1)	0.4
2039	Di(2-ethylhexyl)phthalate (117-81-7)	0.006
2931	Dibromochloropropane(DBCP) (96-12-8)	0.0002
2041	Dinoseb (88-85-7)	0.007
2032	Diquat (85-00-7)	0.02
2033	Endothall (145-73-3)	0.1
2005	Endrin (72-20-8)	0.002
2946	Ethylene dibromide (EDB) (106-93-4)	0.00002
2034	Glyphosate (1071-853-6)	0.7
2065	Heptachlor (76-44-8)	0.0004
2067	Heptachlor epoxide (1024-57-3)	0.0002
2274	Hexachlorobenzene (118-74-1)	0.001
2042	Hexachlorocyclopentadiene (77-47-4)	0.05
2010	Lindane (58-89-9)	0.0002
2015	Methoxychlor (72-43-5)	0.04
2036	Oxamyl (vydate) (23135-22-0)	0.2
2326	Pentachlorophenol (87-86-5)	0.001
2040	Picloram (1918-02-1)	0.5
2383	Polychlorinated biphenyl (PCB) (1336-36-3)	0.0005
2037	Simazine (122-34-9)	0.004
2020	Toxaphene (8001-35-2)	0.003

Abbreviations used: MCL = maximum contaminant level
 mg/L = milligrams per liter
 CAS Number = Chemical Abstract System Number

TABLE 4
SECONDARY DRINKING WATER STANDARDS

FEDERAL CONTAMINANT ID NUMBER	CONTAMINANT	LEVELS (mg/L)*
1002	Aluminum	0.2
1017	Chloride	250
1022	Copper	1
1025	Fluoride	2.0
1028	Iron	0.3
1032	Manganese	0.05
1050	Silver	0.1
1055	Sulfate	250
1095	Zinc	5
1905	Color	15 color units
1920	Odor**	3 (threshold odor number)
1925	pH	6.5 - 8.5
1930	Total Dissolved Solids	500 (may be greater if no other maximum contaminant level is exceeded)
2905	Foaming agents	0.5

*except color, odor, corrosivity, and pH

** For purpose of compliance with ground water quality secondary standards, as referenced in Chapter 17-520, F.A.C., levels of ethylbenzene exceeding 30 micrograms per liter, toluene exceeding 40 micrograms per liter, or xylenes exceeding 20 micrograms per liter shall be considered equivalent to exceeding the drinking water secondary standard for odor.

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 11-17-94

Time 11 am

Subject Groundwater Sampling

Permit No. _____

County Hardee

Telephone No. _____

M Bence Cummins

Representing Short Environmental

Phone Me Was Called Scheduled Meeting Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

MW-6 needs retest for EPA Method 602
Will be doing the quarterly sampling
~~next~~ next week (by Thanksgiving)

He will send them a list of standards

Turbidities - Purge wells w/ a pump 35
volumes, use bailer to collect
samples.

MW6 - no odor/sheen last sampling

Copy him on letter to Hardee re gw

(continue on another
sheet, if necessary)

Signature Allison Amman
Title PGI

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 11-10-94

Time 9:20

Subject _____

Permit No. _____

County Hardee

Telephone No. 813/773-5089

M Janice Williams

Representing Hardee Co

Phone Me [] Was Called [] Scheduled Meeting [] Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

Returned her 11/9 call. Told her that Susan Rely + cl would be at the landfill next Wed, 11/16, to discuss the working of the sprayfield underdrain. We will call next week + let them know when (morning/afternoon) we will be there. Hardee Co. would like to reduce their water level measurement frequency.

(continue on another sheet, if necessary)

Signature A. Adams

Title PGI

September 9, 1994

Mr. Robert Butera
Division of Solid Waste
Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, FL 33619

RECEIVED
SEP 12 1994
Departu
BY SOUTHWEST DISTRICT Protection



Re: Hardee County Landfill
Permit #S025-214306

Dear Mr. Butera:

Attached please find record drawings and Certification of Construction completion.

If you have any questions, please call.

Sincerely,

WADE-TRIM, INC.

Steven A. Dutch, PE
Project Manager

SAD:amf
HAR1: BUTERA.LTR
HAR2001.01(160)

cc: J.R. Prestridge, Hardee County
Gary Oden, Hardee County

Engineering
Landscape
Architecture
Planning
Sciences
Surveying



STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

CERTIFICATION OF CONSTRUCTION COMPLETION
OF A SOLID WASTE MANAGEMENT FACILITY

DER Construction Permit No.: SO 25-214306 County: Hardee

Name of Project: Hardee County Sanitary Landfill

Name of Owner: Hardee County

Engineer: Wade-Trim

Type of Project: Modifications to leachete disposal system

Cost: Estimated \$ 100,000 Actual \$ 67,000

Site Design: Quantity: 41 ton/day Site Acreage: 95 Acres

Population: 22,600 Dumping Fees: \$ 32 /Ton

Deviations from Plans and Application Approved by DER: _____

Installation of in line filters to prevent clogging of irrigation heads.

Water Monitoring Data Submitted to DER, Date: July 1, 1994

Address and Telephone No. of Site: Airport Road, Wauchula, FL

Name(s) of Site Supervisor: J.R. Prestridge

Date Site Inspection is requested: September 21, 1994

This is to certify that, with the exception of deviation noted above, the construction of the project has been completed in accordance with the plans authorized by Construction Permit No.: S025-214 306 Dated: November 21, 1993

Date: 9/6/94

Signature of Professional Engineer
Steven A. Dutch
REGISTERED ENGINEER



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

FAX TRANSMITTAL SHEET

FAXED
11:39 AM

8/23/94
Date

TO: JANICE WILLIAMSON - HANDEE CO LF

Phone: _____

Fax: 813-773-3907

FROM: SUSAN PELZ

Phone: (813) 744-6100 ext 386

Fax: (813) 744-6125

TOTAL NUMBER OF PAGES, INCLUDING COVER SHEET 1

SUBJECT: Soil/mulch mixtures may be proposed for use as initial (daily) cover, intermediate cover or for side slope stabilization. The mixture proposed must meet the requirements of FAC 17-701.200(40) and .200(41). For mixtures proposed (for example 25% soil 75% mulch, 50/50, etc) the following information is needed: particle size distribution, moisture content and bulk density of mulch only, soil only, and any proposed mixtures. Please include the proposed age of the mulch. Flammability may be tested using FMVSS 302 (A test used on car interiors), or NFPA 701 (test for curtains), or some other flammability test.

This information should be included in the request for permit modification, along with \$250 fee.

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Any questions, please call.

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 7/22/94
Time 3:30

Subject Hardee LF - GW Measurements
Permit No. _____
County Hardee
Telephone No. 800-833-4022

M Bruce Cummings
D.K. Costello

Representing Hardee Co Short Environmental Labs, Inc.

[] Phone Me [] Was Called [] Scheduled Meeting [] Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

Inquired what the water level measurements
water level = height of water column
in well prior to purging
GW Elevation (LS) - LS elevation - water depth
This does not show gw elevation;
should be deleted.

Told him that all cl need is Water Depth
& gw elev. He will clarify next 1/4's
report, & delete GW Elev (LS)

Bruce Cummings Lab Mgr for Short Environmental Labs 800-833-4022
813/655-4022
signed lab sheets

(continue on another
sheet, if necessary)

Signature Allison Anram
Title ES3

HARDEE COUNTY SANITARY LANDFILL

GROUNDWATER ELEVATIONS

DATE: 05/06/94

RECORDED BY: D.F. Costello

LOCATION	ELEVATION TOP OF CASING	ELEVATION AT LAND SURFACE	HEIGHT OF CASING ABOVE L.S.	WATER DEPTH FROM TOP OF CASING	GROUNDWATER ELEVATION	
					TOC	LS
MW-1	87.97	86.24	1.73	8.00	79.97	78.24
MW-2	85.86	83.68	2.18	7.75	78.11	75.93
MW-3	87.75	86.07	1.68	7.92	79.83	78.15
MW-4	87.16	84.44	2.72	8.33	78.83	76.11
MW-5	88.76	85.76	3.00	9.92	78.84	75.84
MW-6	87.94	84.68	3.26	9.17	78.77	75.51
MW-7	87.51	84.55	2.96	9.17	78.34	75.38
P-1	91.27	88.97	2.30	11.33	79.94	77.64
P-2	90.66	87.66	3.00	12.08	78.58	75.58
P-3	89.05	86.60	2.45	8.58	80.47	78.02
P-4	88.24	85.36	2.88	9.08	79.16	76.28
P-5	89.25	86.42	2.83	10.42	78.83	76.00
P-6	85.94	83.44	2.50	7.58	78.36	75.86
P-7	84.04	81.84	2.20	6.67	77.37	75.17
P-8	84.74	82.67	2.08	7.17	77.57	75.49
P-9	87.06	84.81	2.25	8.42	78.64	76.39
P-10	88.56	86.40	2.16	9.75	78.81	76.65
P-11	87.16	85.08	2.08	8.08	79.08	77.00

WATER ELEVATION IN THE DEWATERING DITCH: _____

All measurements in feet.

SHORT ENVIRONMENTAL LABORATORIES, INC.
 10405 US 27 South
 Sebring, Florida 33870

1-800-833-4022 HRS # 85344 (813) 655-4022

06-25-94

For: Hardee County Board of County Commissioners
 Dept. of Solid Waste & Recycling Center
 P.O. Box 246
 Wauchula, FL 33873
 Attn: J.R. Prestridge

Page 2

Laboratory Number: 25732

Sample type: Groundwater
 Project: Hardee County
 Location: Landfill
 Sample ID: MW-4
 Sampled by: D. Costello 05-06-94 @ 0815
 Received: 05-06-94 @ 1300

REPORT OF ANALYSIS

FIELD DATA

Parameter	Result	Units	Method
pH	5.51	S.U.	EPA 150.1
Conductivity	175.	umhos/cm	EPA 120.1
Temperature	21.6	Degrees C	EPA 170.1
Dissolved Oxygen	8.4	mg/L	EPA 360.1
Sheens	No Sheen		
→ Water depth - <i>from top of water in well</i>	8.33	Ft.	
Water level ?	13.67	Ft.	
→ Groundwater elevation (TOC) - <i>correct elev</i>	78.83	Ft.	
Groundwater elevation (LS)	76.11	Ft.	
Volume removed before sampling	7.00 <i>usable</i>	Gal.	

LABORATORY DATA

Parameter	Result	Units	Method
Bicarbonate as CaCO3	34.	mg/L	EPA 310.1
Chloride (Cl)	15.	mg/L	EPA 325.3
Ammonia Nitrogen (NH3-N)	0.22	mg/L	EPA 350.1
Ammonium Nitrogen (NH4-N)	0.22	mg/L	EPA 350.1
Nitrate (NO3-N)	0.02	mg/L	EPA 353.2
Total Organic Carbon	28.	mg/L	EPA 415.1
1,1,1-trichloroethane	< 0.03	ug/L	EPA 601
1,1,2,2-tetrachloroethane	< 0.01	ug/L	EPA 601
1,1,2-trichloroethane	< 0.03	ug/L	EPA 601
1,1-dichloroethane	< 0.07	ug/L	EPA 601
1,1-dichloroethene	< 0.07	ug/L	EPA 601

Respectfully Submitted,

Bruce Cummings
 Bruce Cummings
 Laboratory Manager

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 6-13-91

Subject City of Wachula WWTP Sludge

Time 8:20

Permit No. _____

County Hardee

M JR Prostridge - Janice

Telephone No. 813/773-5089

Representing Hardee Co Dept

[] Phone Me Was Called [] Scheduled Meeting [] Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

Spoke w/ Janice -

Did not get the test results for metals - he will fax - 9:50 red fax. Metals + organics all

passed TCLP. However, metals concentrations do exceed gw standards, so the sludge can produce a leachate that may affect gw quality. Can be disposed at a land ^(CFW) location.

JR wants to go back to water level monitoring quarterly, instead of weekly - concerned w/ repeated well access

Sprayfield is not in operation yet - pump should be in next week -- then can spray.

I told Janice that we would discuss reduction of water level measurements frequency w/ Kim after he returns from vacation next week. May need to continue measurements

(continue on another in the sprayfield sheet, if necessary) Signature Allison Annam
to see how the Title ES3

systems changes
gw flow



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

June 9, 1994

Department of Environmental Protections
Attention: Allison Amram
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

Dear Ms. Amram:

The City of Wauchula has requested permission to dispose of Sludge from their Drying Beds at the Sewer Plant. We had requested that they run a TCLP test, results are attached. The sludge has also passed the filter test.

I would appreciate your review of the material and any comments, objections, or requirements you might have on the acceptance of such material. Are there any other requirements that the county should impose to protect our interest in ground water quality?

Thank You for Your Assistance,

J.R. Prestridge
J.R. Prestridge,
Solid Waste Superintendent

jw

Phone: (813) 773-5089 . FAX: (813) 773-0958

10405 US 27 south
Sebring, Florida 33870
1-800-833-4022 HRS # 85344 (813) 655-4022

06-07-94

Page 1

For: City of Wauchula
P.O. Box 818
Wauchula, FL 33873
Attn: Mike Heine

Laboratory Number: 26066

Sample type: Dried Sludge
Project: City of Wauchula
Location: Sludge beds
Sample ID: Sludge
Sampled by: M. Heine on 05-18-94 @ 1445
Received: 05-19-94 @ 1100

REPORT OF ANALYSIS

LABORATORY DATA
Parameter

Result

Unit

Method

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
EPA METHOD 1311

Parameter	Result	Unit	Method
Benzene	0.01	mg/L	EPA 1311
Carbon tetrachloride	0.01	mg/L	EPA 1311
Chlordane	0.001	mg/L	EPA 1311
Chlorobenzene	0.01	mg/L	EPA 1311
Chloroform	0.01	mg/L	EPA 1311
o-Cresol	0.020	mg/L	EPA 1311
m-Cresol	0.020	mg/L	EPA 1311
p-Cresol	0.020	mg/L	EPA 1311
Cresol	0.020	mg/L	EPA 1311
2,4-D	0.002	mg/L	EPA 1311
1,2-dichlorobenzene	0.01	mg/L	EPA 1311
1,4-dichlorobenzene	0.01	mg/L	EPA 1311
1,2-dichloroethane	0.01	mg/L	EPA 1311
1,1-dichloroethylene	0.01	mg/L	EPA 1311
2,4-dinitrotoluene	0.001	mg/L	EPA 1311
Endrin	0.001	mg/L	EPA 1311
Heptachlor	0.001	mg/L	EPA 1311
Heptachlor epoxide	0.001	mg/L	EPA 1311
Hexachlorobenzene	0.001	mg/L	EPA 1311
Hexachlorobutadiene	0.001	mg/L	EPA 1311
Hexachloroethane	0.001	mg/L	EPA 1311
Lindane	0.001	mg/L	EPA 1311

Respectfully Submitted,

Bruce Cummings
Bruce Cummings
Laboratory Manager

Bruce Cummings
Laboratory Manager

SHORT ENVIRONMENTAL LABORATORIES, INC.
 10405 US 27 South
 Sebring, Florida 33870
 1-800-833-4022 HRS # 85344 (813) 655-4022

06-07-94

Page 2

For: City of Wauchula
 P.O. Box 818
 Wauchula, FL 33873
 Attn: Mike Heine

Laboratory Number: 26066

Sample type: Dried Sludge
 Project: City of Wauchula
 Location: Sludge beds
 Sample ID: Sludge
 Sampled by: M. Heine on 05-18-94 @ 1445
 Received: 05-19-94 @ 1100

REPORT OF ANALYSIS

LABORATORY DATA Parameter	Result	Units	Method
TOXICITY CHARACTERISTIC LEACHING PROCEDURE EPA METHOD 1311			
Methoxychlor	< 0.010	mg/L	EPA 1311
Methyl ethyl ketone	< 0.001	mg/L	EPA 1311
Nitrobenzene	< 0.004	mg/L	EPA 1311
Pentachlorophenol	< 0.008	mg/L	EPA 1311
Pyridine	< 0.02	mg/L	EPA 1311
Tetrachloroethylene	< 0.01	mg/L	EPA 1311
Toxaphene	< 0.01	mg/L	EPA 1311
Trichloroethylene	< 0.01	mg/L	EPA 1311
2,4,5-trichlorophenol	< 0.01	mg/L	EPA 1311
2,4,6-trichlorophenol	< 0.01	mg/L	EPA 1311
2,4,5-TP (Silvex)	< 0.003	mg/L	EPA 1311
Vinyl chloride	< 0.01	mg/L	EPA 1311
Arsenic (As)	0.09	mg/L	EPA 1311
Barium (Ba)	6.18	mg/L	EPA 1311
Cadmium (Cd)	0.04	mg/L	EPA 1311
Chromium (Cr)	0.12	mg/L	EPA 1311
Lead (Pb)	0.63	mg/L	EPA 1311
Mercury (Hg)	< 0.01	mg/L	EPA 1311
Selenium (Se)	0.02	mg/L	EPA 1311
Silver (Ag)	0.19	mg/L	EPA 1311

Respectfully Submitted,

Bruce Cummings
 Bruce Cummings
 Laboratory Manager



Lawton Chiles
Governor

Florida Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

FAX TRANSMITTAL SHEET

FAXED
1255P

6/7/94
Date

TO: Janice

Phone: 813-773-5089

Fax: 813-773-0958

FROM: Susan Pelz

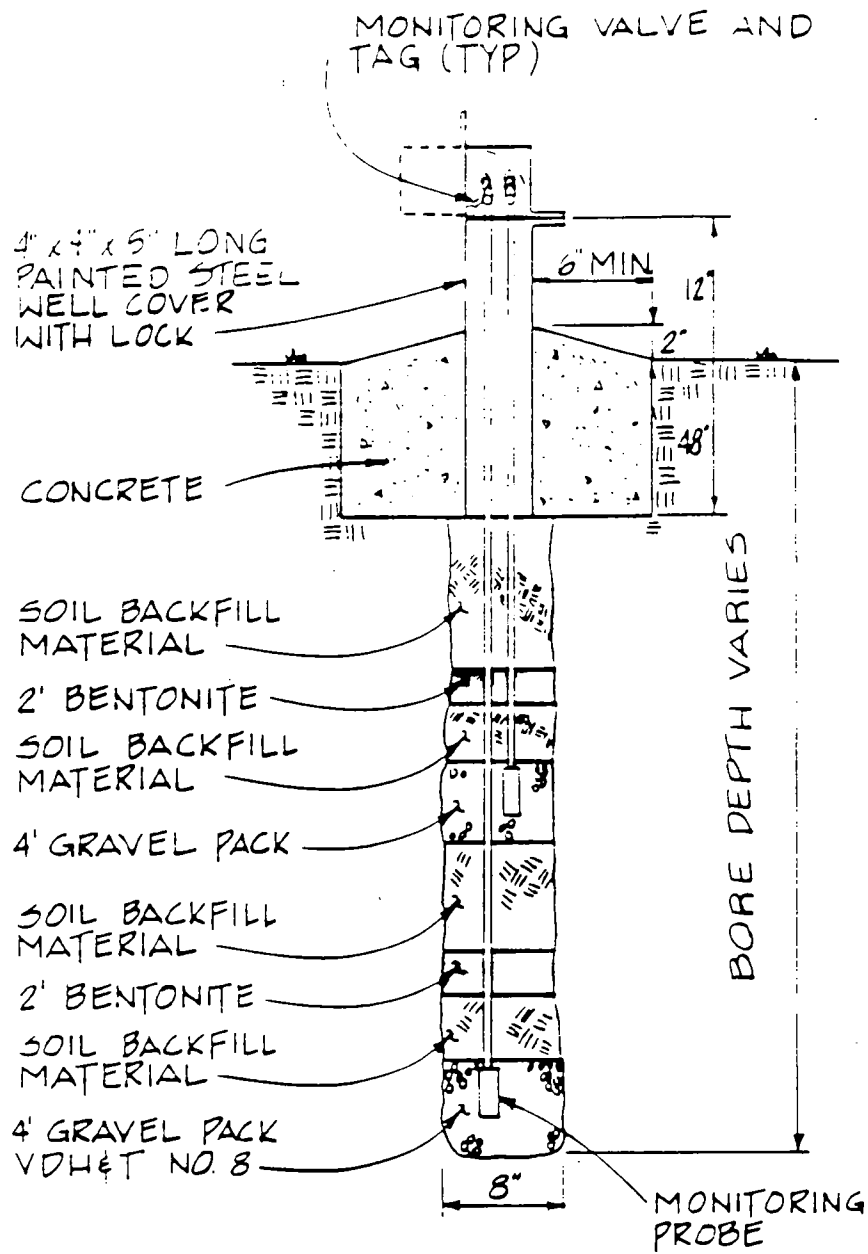
Phone: (813) 744-6100 ext 386

Fax: (813) 744-6125

TOTAL NUMBER OF PAGES, INCLUDING COVER SHEET 3

SUBJECT: Typical gas monitoring probes.

You may also monitor the gas at the perimeter
by digging a shallow (2-3') hole, wait
about 5-10 minutes, then test the gas in
the hole. (This ~~is~~ is used by some facilities
but it is not a preferred method.
Gas probes give the best monitoring data.)



NOTE: SINGLE PROBE WELLS SHALL BE SIMILARLY CONSTRUCTED W/SHALLOW PROBE ONLY

EXHIBIT 4-3. LFG MIGRATION MONITORING WELL

IDENTIFICATION TAG
IMBEDDED IN
CONCRETE PAD

VALVE BOX
RATED FOR TRAFFIC LOADING

LOCKABLE CAP

FINISHED GRADE

4' SQ. x 6" CONCRETE PAD

6" DEEP SILICA PEA GRAVEL

HIGH SOLIDS HYDRATED BENTONITE

20/30 SILICA SAND PACK

1" SCH 40 PVC RIGID THREADED PIPE.
SLOTTED 0.010"

1" PVC CAP

BRASS IDENTIFICATION TAG
2" DIA. x 1/8" THK.

MONITORING
PROBE NO.

LFGMP-1

30'

PROBE DEPTH

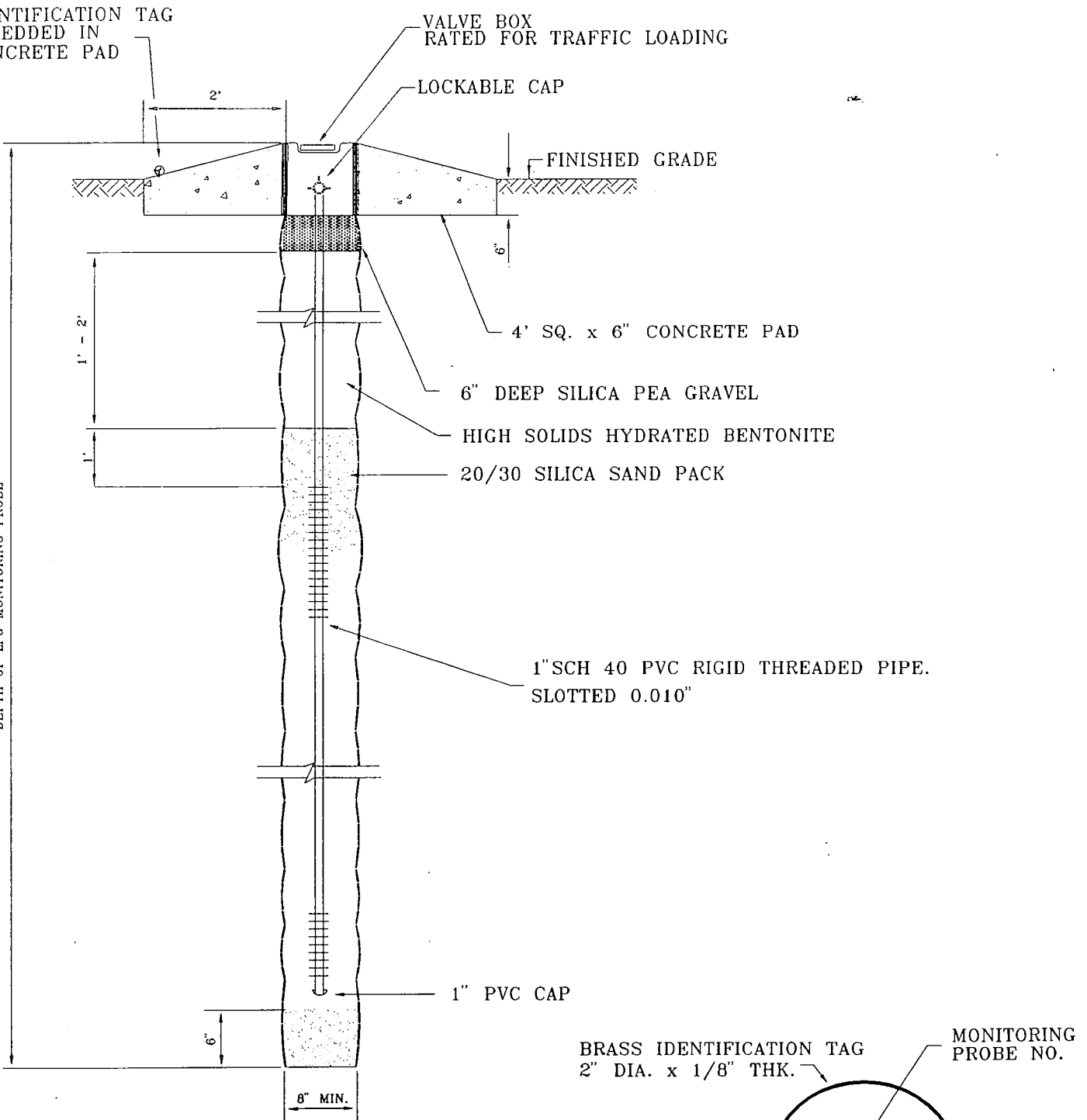
DETAIL 1-TYPICAL MONITORING PROBE

N.T.S.

DETAIL 2-IDENTIFICATION TAG

N.T.S.

DEPTH OF LFC MONITORING PROBE



SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 5/31/94
Time 2:00p

Subject _____
Permit No. _____
County Hardee
Telephone No. _____

M JANICE WILLIAMS
Representing Hardee Co fax 813-773-0958

Phone Me [] Was Called [] Scheduled Meeting [] Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

- gas monitoring - ^{she asked} what do you want us to do?
- I told her to ① monitor inside any buildings
- ② check perimeter of property for distressed vegetation
- I told her that I would fax her a typical gas probe detail, but that since they don't have any closed areas, I didn't think they would need to install probes
- told her I would check w/ Allison

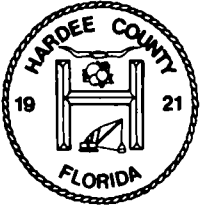
(continue on another sheet, if necessary)

Signature [Signature]
Title ET

Allison -
FYI - what
do you think?

2

How will they
know if they exceed
100% LEL @ prop.
boundary? Need to
either put in probes
or (my favorite), do
the gas-in-the-hole
method which is
currently accepted.



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

D.E.P.

May 16, 1994

MAY 17 1994

Department of Environmental Protections
Attention: Robert Butera, P.E.
3804 Coconut Palm Drive
Tampa, Florida 33619-8318

SOUTHWEST DISTRICT
TAMPA

*SEE ENCLAVE
ADA FILE*

RE: Daily Water Balance
Weekly Water Elevations

Dear Mr. Butera:

Submitted for your review, are the daily water balance records for May 1, through May 15, 1994. and the weekly water elevations for the first two weeks in May.

Please feel free to contact me should you have any questions or comments.

Sincerely,

J.R. Prestridge
J.R. Prestridge,
S.W. Superintendent

jw

cc: Wade - Trim Engineering
Steve Dutch, P.E.

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 5/17/94 Subject construction
Time 246 pm Permit No. _____
County Hardee
M JR. Prestridge Telephone No. 813-773-5089
Representing Hardee Co

[] Phone Me Was Called [] Scheduled Meeting [] Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

- 30 day extension is o.k.
- pump motor is special order
- Resampled well #7 for toluene →
- asked about oil filters
- gave him Filter Recall Inc phone # 407-328-0015
- he said he would like to find a scrap dealer that would take caashed oil filters & not have to pay to dispose As haz wst

(continue on another sheet, if necessary)

Signature [Signature]
Title EF



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

(see separate file)

May 2, 1994

Department of Environmental Protection
Attention: Bob Butera, P.E.
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

DEP
MAY 04 1994
SOUTHWEST DISTRICT
TAMPA

RE: Request for Extension
Monthly Water Balance
Weekly water elevations

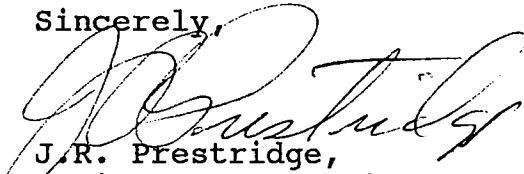
Dear Mr. Butera:

According to our permit, number S025-214306; site improvements for the landfill must be completed by May 27, 1994. Due to our contractors having difficulty receiving custom orders, we are requesting a thirty (30) day extension.

I have enclosed for your information, the monthly water balance and per week water elevations for the month of April. The underdrains in the spray field have been completed and appear to be operating as planned. The water elevations in the dewatering ditch are slowly dropping. The volume of water hauled to treatment and the spray information is included in the water balance spread sheet.

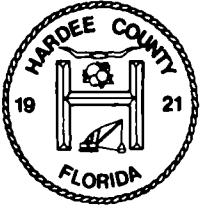
Thank you for your assistance and should you need any further information, do not hesitate to contact us.

Sincerely,


J.R. Prestridge,
Solid Waste Superintendent

jw

cc: Wade - Trim Engineering
Steve Dutch, P.E.



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

D.E.P.

APR 28 1994
SOUTHWEST DISTRICT
TAMPA

April 25, 1994

Department of Environmental Protection
Division of Waste Management
Attention: Bob Butera
3804 Coconut Palm Drive
Tampa, FL 33619-8318

*See attached
DATA FILE*

RE: Daily Water Balance
Weekly Water Elevations

Dear Mr. Butera:

Enclosed you will find, updated, daily water balances, and the weekly water elevations.

Please contact me should you have any questions.

Sincerely,

J.R. Prestridge,
Solid Waste Superintendent

jw

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 4-5-94 Subject LEACHATE RECIRCULATION
Time 5:00 P.M. Permit No. 5025-214306
County HARDEE
M R. J.R. PRESTRIDGE Telephone No. 813-773-5089

Representing - HARDEE CTY -

[] Phone Me [X] Was Called [] Scheduled Meeting [] Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

TO DISCUSS LEACHATE RECIRCULATION ON THE NORTH SIDE OF THE
DEWATERING DITCH. EXPLAINED TO J.R. HOW THE EVAPORATION RATE SHOULD BE
DETERMINED ONCE RECIRCULATION TAKES PLACE. CURRENT EVAPORATION RATE
WAS AN ESTIMATE USING THE NOMOGRAPH AND TEMP., WIND SPEED & HUMIDITY
ONLY. I ENCOURAGED J.R. PRESTRIDGE TO INCREASE HAULAGE FOR THE
NEXT 45 DAYS TO ATTEMPT TO REDUCE WATER LEVELS IN THE DITCH
TO REASONABLE LEVELS PRIOR TO USING THE ^{NEW} SPRAY FIELD. HE AGREED
AND WAS GOING TO START HAULING SATURDAYS. I APPROVED HIS PROPOSED
LOCATION OF 8-80' DIA. SPRAY HEADS OVER PORTION OF THE
DEWATERING DITCH AND THE IMMEDIATE NORTH SIDE OF TRENCH. ON
PAK DATED 4-5-94

(continue on another sheet, if necessary)

Signature Robert J. Antero
Title PE II

S.W. ROUTING

D. :: 4-5-94

- Kim Ford _____
- Steve Morgan _____
- Allison Amram PA 4-11
- Stephanie Hinson _____
- Danielle Nichols _____
- Susan Pelz 4/11

file
Susan

=====

DISPOSITION AFTER REVIEW

- FILE
- Return to Bob Butera

HARDEE COUNTY
BOARD OF COUNTY COMMISSIONERS
 Room A-204, Courthouse Annex
 412 West Orange Street
 Wauchula, Florida 33873-2867
 (813) 773-6952 • (813) 773-9430 • FAX (813) 773-0958

- MINOR L. BRYANT
District I
- BENNY W. ALBRITTON
District II
- TED HITE
District III
- ROYCE TYSON, JR.
District IV
- WALTER OLLIFF, JR.
District V
- GARY ODEN
County Manager
- GARY A. VORBECK
County Attorney

FAX TRANSMITTAL

DATE: 4-5-94
TIME:

TO: *Bb Butera
DEP*

COPIES TO:

FAX NUMBER:
774-6125

FROM: *J. R. Prestidge*

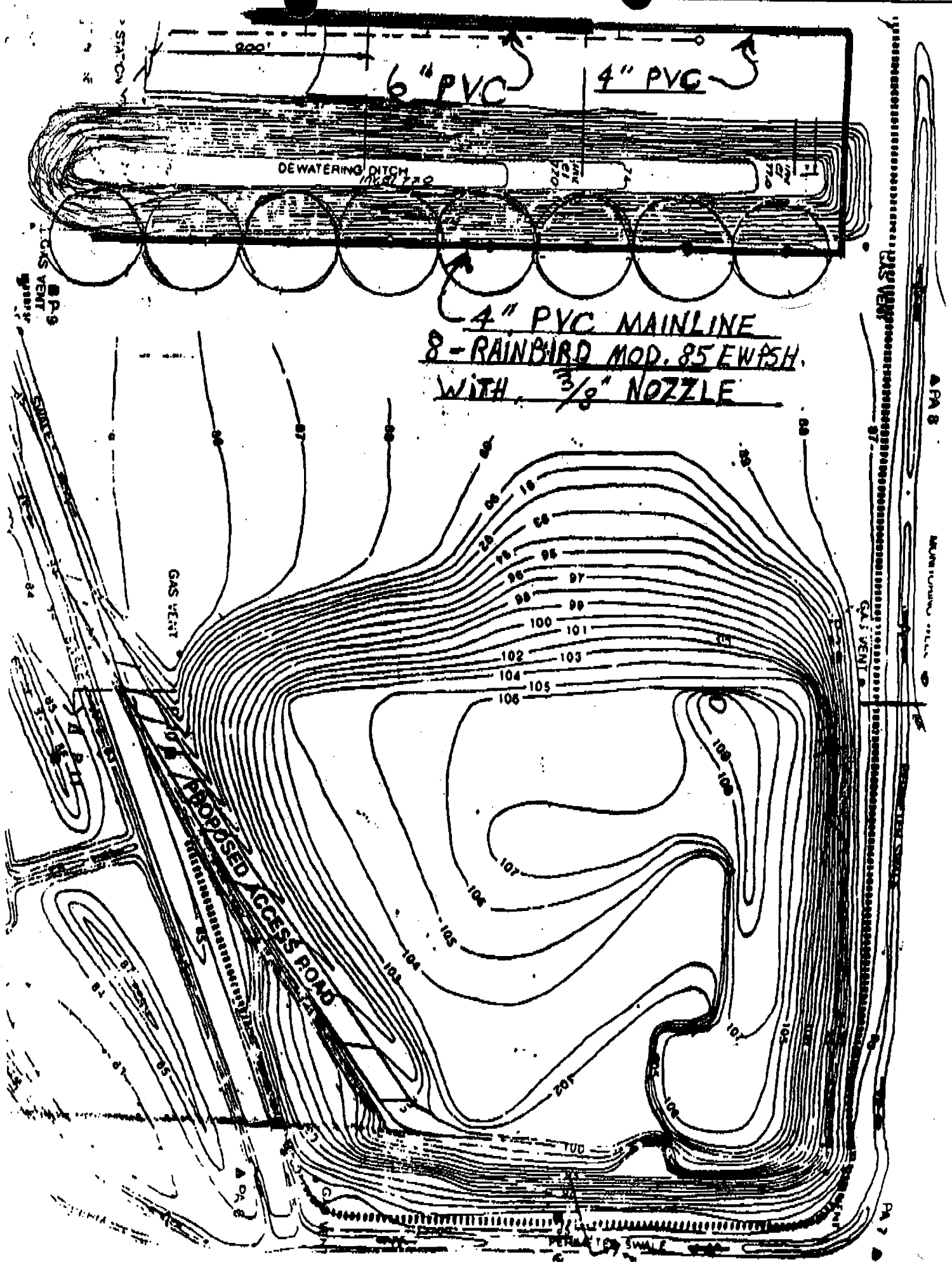
SUBJECT: *SPRAYFIELD*

NUMBER OF PAGES: *2*
(Including this sheet)

PLEASE DELIVER THESE PAGES TO THE INDIVIDUAL NAMED ABOVE. IF YOU HAVE ANY DIFFICULTY RECEIVING THIS TRANSMISSION OR IF PAGES ARE MISSING OR ILLEGIBLE, PLEASE CALL 813/773-6952 OR 813/773-9430 AND SPEAK WITH:

773389

 * COMMENTS: *Let. letter dated March 29, 1994,*
 * *Attached is a map of proposed temporary*
 * *sprayfield area. If this meets with*
 * *your approval we will construct immediately.*
 *
 *
 *





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

0April 1, 1994

Department of Environmental Protections
Attention: Bob Butera, P.E.
Solid Waste Section
3804 Coconut Palm Drive
Tampa, Florida 33619

D.E.P.

APR 05 1994

SOUTHWEST DISTRICT
TAMPA

RE: Monthly water balances

Dear Mr. Butera:

Enclosed you will find the daily water balance report for the month of March, weekly water elevations and location maps for the month of March, and monthly hauling and treatment cost summaries for leachate, for the months of February and March.

Actual construction of the landfill improvements will begin on April 6, 1994. We are presently constructing a temporary spray field on the north side of the dewatering ditch as per your approval by phone on March 28, 1994.

We will continue to submit any pertinent information to aid in your evaluation process, bi-monthly.

Please feel free to contact us for any information you may need.

Thank you for your cooperation and assistance,

Sincerely,

J.R. Prestridge,
Solid Waste Superintendent

jw/JRP

DAILY WATER BALANCE FOR HARDEE COUNTY SANITARY LANDFILL

RB

DATE	AIR TEMP	WIND SPEED M.P.H	HUMIDITY	RAIN FALL INCHES	RAIN FALL GAL.	STAFF GAUGE	GAL. STORED	METER READING	GAL. PUMPED	EVAPORATION RATE	GAL. EVAPORATED	TREATMENT	OTHER
3/01/94	73 F	18	83%	0	0	7.71	884,214	-	0	4.5%	0	24,000	0
3/02/94	78 F	25	73%	2.50"	110,625	8.28	1029360	-	0	5.0%	0	0	0
3/03/94	67 F	25	66%	0	0	8.31	1037239	-	0	5.0%	0	0	0
3/04/94	74 F	15	53%	0	0	8.27	1026743	-	0	5.2%	0	24,000	0
3/05/94	81 F	10	60%	0	0	8.29	1031977	-	0	4.5%	0	0	0
3/06/94													
3/07/94	80 F	5	67%	0	0	8.30	1034594	-	0	2.5%	0	24,000	0
3/08/94	83 F	3	59%	0	0	8.27	1026743	-	0	2.4%	0	24,000	0
3/09/94	85 F	7	83%	0	0	8.24	1018891	-	0	2.5%	0	24,000	0
3/10/94	80 F	12	89%	0	0	8.23	1016274	-	0	3.3%	0	24,000	0
3/11/94	81 F	7	67%	0	0	8.24	1018891	-	0	3.0%	0	24,000	0
3/12/94	85 F	10	60%	0	0	8.22	1013657	-	0	4.4%	0	0	0
3/13/94													
3/14/94	78 F	12	53%	0	0	8.23	1016274	-	0	5.1%	0	24,000	0
3/15/94	81 F	10	61%	0	0	8.17	1000655	-	0	4.1%	0	24,000	0
3/16/94	80 F	10	60%	0	0	8.13	990,597	-	0	4.4%	0	24,000	0
3/17/94	80 F	9	54%	0	0	8.13	990,597	-	0	4.1%	0	48,000	0
3/18/94	84 F	7	47%	0	0	7.96	946,778	-	0	4.2%	0	24,000	0
3/19/94	86 F	5	71%	0	0	8.05	969,721	-	0	2.5%	0	0	0
3/20/94													
3/21/94	86 F	11	72%	0	0	8.00	956,913	-	0	4.0%	0	24,000	0
3/22/94	86 F	10	72%	0	0	7.98	951,845	-	0	3.9%	0	24,000	0
3/23/94	80 F	5	73%	0	0	7.93	939,176	-	0	2.4%	0	24,000	0
3/24/94	82 F	4	71%	0	0	7.87	924,057	-	0	2.3%	0	24,000	0
3/25/94	88 F	14	73%	0	0	7.91	934,109	-	0	4.9%	0	0	0
3/26/94	87 F	5	75%	0	0	7.95	944,244	-	0	2.5%	0	0	0
3/27/94													
2/28/94	86 F	8	78%	0	0	7.94	941,710	-	0	3.2%	0	24,000	0
3/29/94	80 F	11	78%	.60	26,550	8.01	959,475	-	0	3.55	0	0	0
3/30/94	75 F	10	71%	0	0	7.95	944,244	-	0	3.2%	0	24,000	0
3/31/94	77 F	7	67%	0	0	7.92	936,643	-	0	3.0%	0	24,000	0

SUMMARY

Total Rain Fall in Inches: 3.10"
 Total Rain Fall in Gallons: 137,175 ← OVER DITCH ONLY PER J.R. - 4-5-94.
 Total Gallons Pumped through Spray Field: 0
 Total Gallons Evaporated: 0
 Total Gallons Hauled to Treatment: 480,000 RB

TOTAL VOLUME REDUCTION - HAULED VOLUMES TO WWTPL/RECIRCULATED VOLUME

APR 05 1994

NEEDS A CROSS-SECTION OF DITCH VOLUME CALIBRATION CHART.

(*) ONLY READING WIND SPEED & HUMIDITY AND USING NOMO GRAPH TO DETERMINE EST. EVAP. RATE. I TOLD J.R. TO DETERMINE RATE ONCE HE STARTS TO CIRCULATE BY USING VOLUMES RECIRCULATED, NOZZLE DIA, WIND SPEED, HUMIDITY AND TEMPERATURE TOGETHER W/ PUMP PRESSURE.



Florida Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

March 29, 1994

Mr. J.R. Prestridge
Solid Waste Superintendent
Hardee County
Post Office Box 246
Wauchula, FL 33873

Re: Leachate Management
Hardee County Class I Landfill - Permit No.: S025-214306

Dear Mr. Prestridge:

In accordance with our discussions this date, the FDEP authorizes controlled spraying per the County's request to spray 25,000 gallons/day by spraying for 20 minutes with an hour rest between spraying to increase evaporation. Spraying shall be limited to the mounded loose fill on the North side and within 275' of the dewatering ditch.

The Department encourages the County to increase leachate quantities hauled to the Wauchula WWTP. The Department understands that the Wauchula WWTP may accept additional quantities after a 30 day testing and impact analyses on their effluent.

The Department requests that groundwater elevations within the monitoring wells, piezometers and the staff gauge trench readings, volume of leachate hauled and leachate sprayed be submitted weekly. The water balance data, as previously submitted, is acceptable except that the evaporation rate shall be explained and leachate recirculated data should be included.

This letter is intended to remind Hardee County that construction of the sprayfield is required to be completed by May 27, 1994 per Specific Condition No. 1 of the current operational permit.

If you have any questions regarding this letter, you may contact Susan Pelz at (813) 744-6100, extension 386.

Sincerely,

Robert J. Butera, P.E.
Solid Waste Manager
Division of Waste Management

RJB/ab

cc: Mr. James Harrison, Hardee County BCC
Susan Pelz, FDEP Tampa
Allison Amram, P.G., FDEP Tampa
Steve Morgan, FDEP Tampa

HARDEE COUNTY DEWATERING DITCH- WATER REMOVAL/RECIRC

AA
3/28/94

Bob--

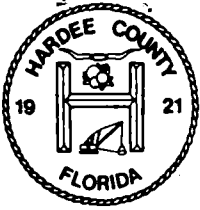
Hardee County wants to get rid of some of the backed up water in the landfill, and lower the water elevation in the dewatering ditch. After our site visit March 11, 1994, we preferred that they consider the following options:

- Haul to Wachula WWTP.
- Spray irrigate on the loose fill on the landfill side of the ditch.

These options still seem to be the best ones, in my opinion for the following reasons:

- Spraying 25K gpd on the sprayfield over 20 minute/hour intervals would substantially cut back on the efficiency of installation of the new sprayfield components.
- The spray rate may create a groundwater discharge away from the ditch, which is the reason for the sprayfield modifications.

According to their own schedule, the modification to the sprayfield should be completed by mid-April, early May, and then they will be able to spray as much as possible on the sprayfield. They may need additional hauling to get rid of the excess water, but it appears that they are set up and willing to do that at the Wachula WWTP.



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

March 15, 1994

Department of Environmental Protections
Attention: Bob Butera
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619

D.E.P.

MAR 22 1994
SOUTHWEST DISTRICT
TAMPA

RE: Requested information

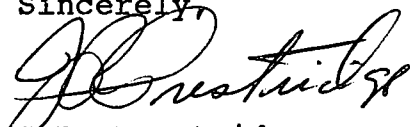
Dear Mr. Butera:

Enclosed you will find the following:

- * Ground water elevations taken from the pizometers and monitoring wells and the elevation of water in the dewatering ditch taken on March 9, 1994.
- * Site map of the area
- * Copy of Specific Purpose Survey to establish accuracy of the staff gauge.
- * Manhole invert elevations on the east and west side of the landfill which are north of the dewatering ditch.

Please contact us for further information.

Sincerely,


J.R. Prestridge,
S. W. Superintendent

jw

Go over w/ AA.

S.W. ROUTING

DAI

3-28-94

- Kim Ford
- Steve Morgan
- Allison Amram
- Stephanie Hinson
- Danielle Nichols
- Susan Pelz

_____ ~~Let them go~~
 _____ Call on
 _____ Status of
 _____ Friday

Hand
 Copy
 Allison
 other

DISPOSITION AFTER REVIEW

- FILE
- Return to Bob Butera

_____ ~~Construct~~

SPECIFIC PURPOSE SURVEY

PURPOSE: TO ESTABLISH ACTUAL ELEVATION ON AN EXISTING STAFF GAUGE AT THE HARDEE COUNTY SANITARY LAND FILL. ELEVATION SHOWN ON PAGE 2 OF 2, IS BASED ON NATIONAL GEODETIC VERTICAL DATUM. IT APPEARS THAT THE ORIGINAL ELEVATIONS ARE INCORRECT.

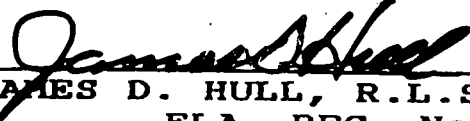
NOTES

1. ELEVATION ESTABLISHED: 2-1-94
2. ELEVATION BASED ON NATIONAL VERTICAL GEODETIC DATUM DATED 1929.
3. THIS IS A SPECIFIC PURPOSE SURVEY ONLY.

CERTIFIED TO: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS.

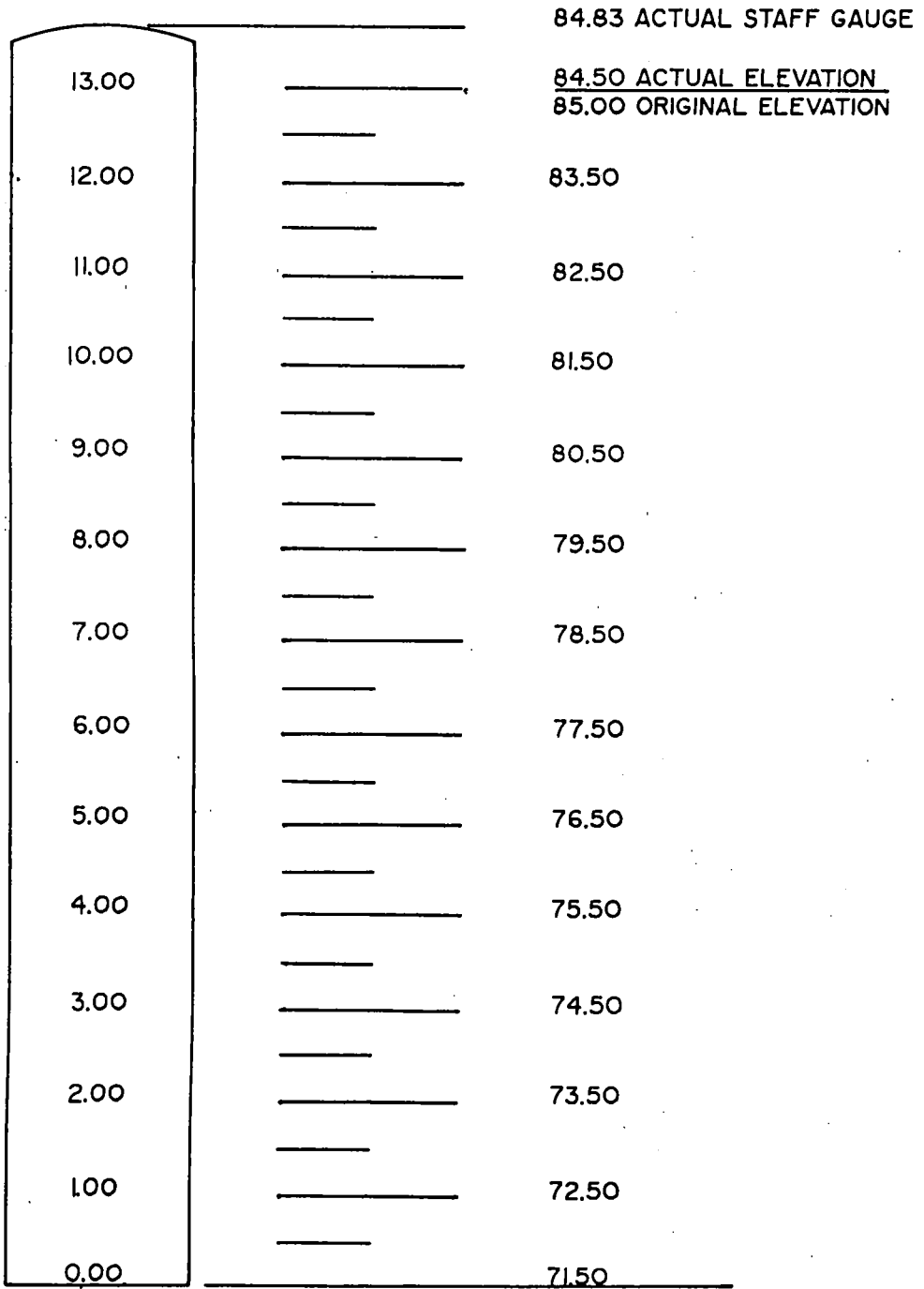
SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 21HH-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 427,027, FLORIDA STATUTES.



JAMES D. HULL, R.L.S. 3/11/94 DATE
FLA. REG. No. 2123

EXISTING STAFF GAUGE AT
HARDEE COUNTY SANITARY LANDFILL



HARDEE COUNTY SANITARY LANDFILL

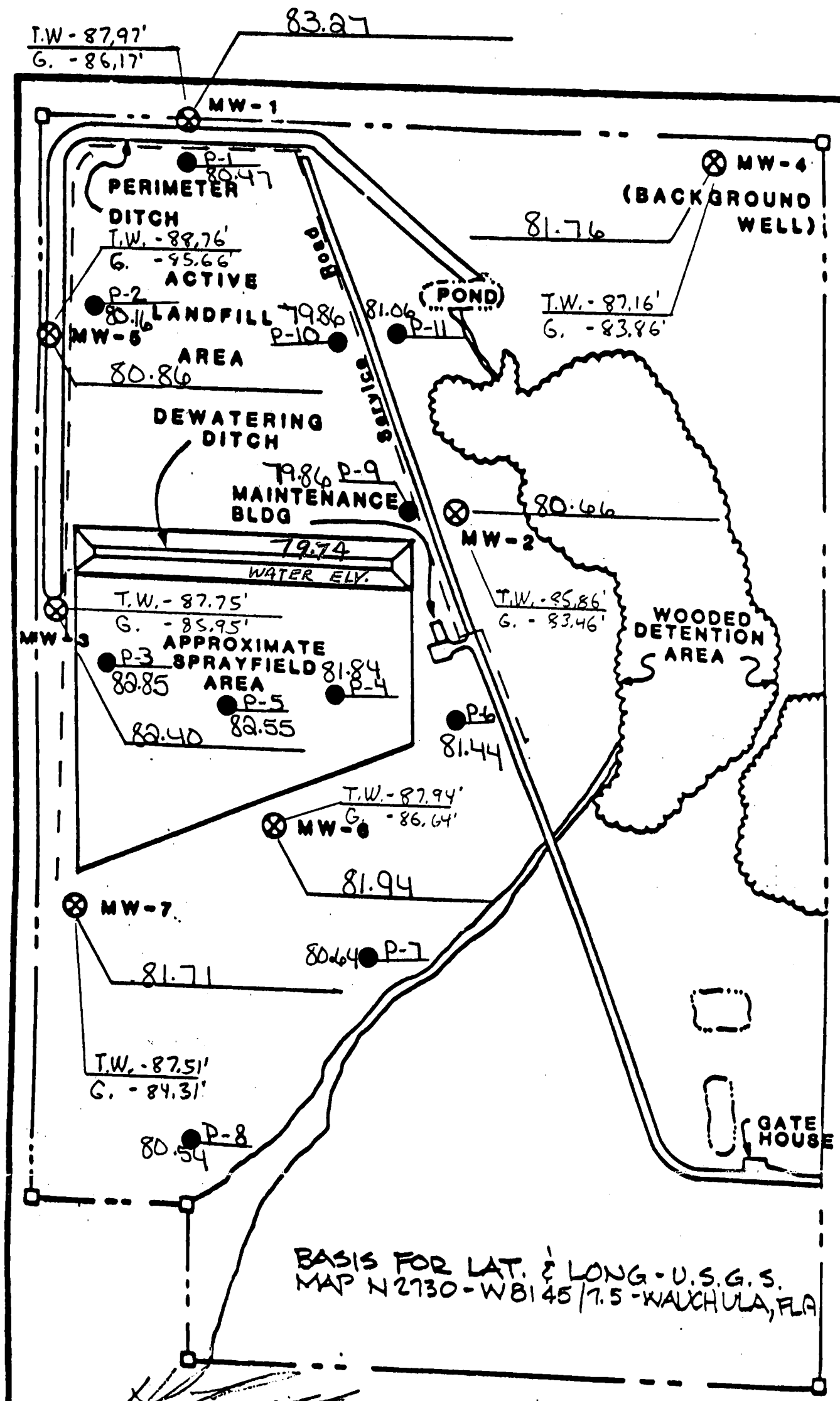
GROUNDWATER ELEVATIONS

DATE: 3/9/94

RECORDED BY: SW.

LOCATION	ELEVATION TOP OF CASING	ELEVATION AT LAND SURFACE	HEIGHT OF CASING ABOVE L.S.	WATER DEPTH FROM TOP OF CASING	GROUNDWATER ELEVATION
MW-1	87.97	86.24	1.73	4.70	83.27
MW-2	85.86	83.68	2.18	5.20	80.66
MW-3	87.75	86.07	1.68	5.35	82.40
MW-4	87.16	84.44	2.72	5.40	81.76
MW-5	88.76	85.76	3.00	7.90	80.86
MW-6	87.94	84.68	3.26	6.00	81.94
MW-7	87.51	84.55	2.96	5.80	81.71
P-1	91.27	88.97	2.30	10.80	80.47
P-2	90.66	87.66	3.00	10.50	80.16
P-3	89.05	86.60	2.45	6.20	82.85
P-4	88.24	85.36	2.88	6.40	81.84
P-5	89.25	86.42	2.83	6.70	82.55
P-6	85.94	83.44	2.50	4.50	81.44
P-7	84.04	81.84	2.20	3.40	80.64
P-8	84.74	82.67	2.08	4.20	80.54
P-9	87.06	84.81	2.25	7.20	79.86
P-10	88.56	86.40	2.16	8.70	79.86
P-11	87.16	85.08	2.08	6.10	81.06

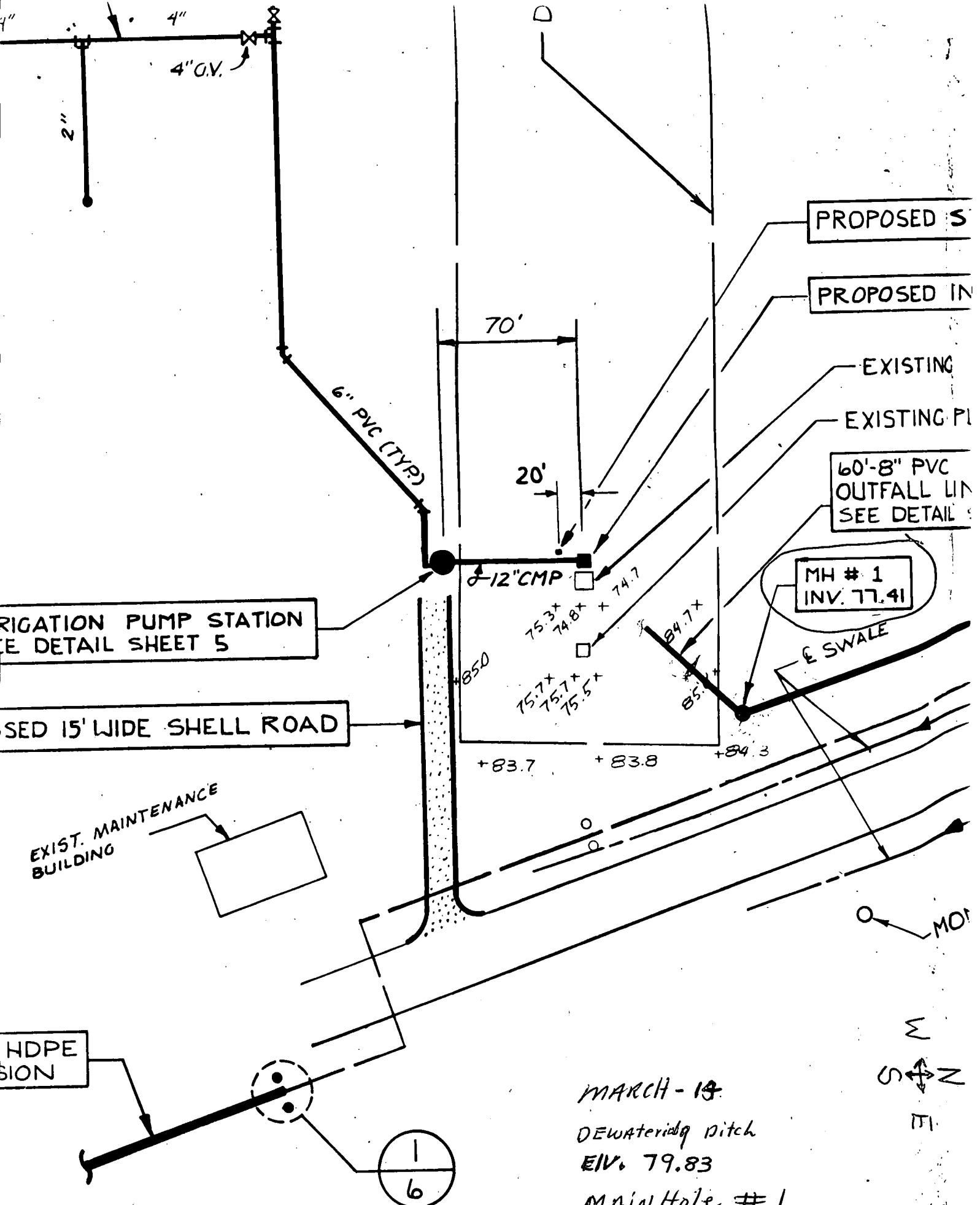
WATER ELEVATION IN THE DEWATERING DITCH: 79.74 3-9-94



H. L. BENNETT, P.L.S.
 FLA. REG No. 3403

3-9-94

MONITOR WELL LOCATION
 REGIONAL SANITARY LANDFILL, HARDEE



PROPOSED S

PROPOSED IN

EXISTING

EXISTING PI

60'-8" PVC
OUTFALL LIN
SEE DETAIL

MH # 1
INV. 77.41

IRIGATION PUMP STATION
SEE DETAIL SHEET 5

PROPOSED 15' WIDE SHELL ROAD

EXIST. MAINTENANCE
BUILDING

HDPE
SECTION

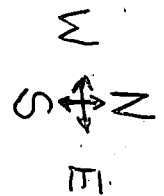
MARCH-19

DEwatering ditch

EIV. 79.83

MAIN Hole # 1

INV. 77.41



EXISTING BARBED WIRE FENCE

6" DIA. MARKER
POLES (TYP.)

MH #6
INV. 78.40

60'-8" PVC
OUTFALL LINE
SEE DETAIL SHT. 4

400'-8" CSPE AT 0.2%

EXISTING SIDE LINER

FILL

MONIT.
WELL

DEWATERING DITCH

MARCH 14, 1994

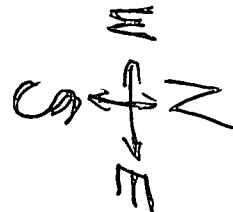
DEWATERING DITCH

INV. 79.83

MAINHOLE # 6

78.40

ACTIVE LANDFILL



SPOT ELEVATION (TYP.)

86.6x

86.0x

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 3-21-94 Subject LEACHATE SPRAY REQUEST
Time 2:00 P.M. Permit No. _____
County HARDEE
Telephone No. 813-773-5089

Representing M. R. J. R. PRESTRIDGE
HARDEE CITY LF

Phone Me Was Called [] Scheduled Meeting [] Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

MR. PRESTRIDGE WAS CONTACTED TO CLARIFY FAX SUBMITTAL DATED 3-21-94. J.R. IS CONCERNED THAT THE WATER BALANCE SPREAD SHEETS REVEALS WITH NO RAINFALL SINCE MARCH 3, 1994 ~~THE~~ STORAGE WITHIN THE DITCH WAS REDUCED 90,4161 GALS. VS. 288,000 GALS. HAULED. I TOLD HIM THAT IT IS PROBABLY BACKED UP INTO THE CANOEL. I INFORMED HIM ^{PROF} ~~THE~~ WARD LOOK AT THE DATA ~~FOR~~ HIS SAMPLING ANALYSIS FROM 2-9-94. THEY HAVE NOT STARTED TO USE THEIR OWN TRUCKS BUT ARE PLANNING ON USING IT COMING NEXT WEEK WHICH MAY ALLOW THEM TO HAUL ADDITIONAL VOLUMES. HE REQUESTED SPRAYING, AS NOTED w/o USE OF THE TWO EXTREME SPRAY HEADS - CONSTRUCTION IS UNDERWAY BUT HE APPEARS TO WANT TO TAKE ADVANTAGE OF THE DRY WEATHER. I TOLD HIM WE WOULD GET BACK TO HIM BY WEEK'S END (AT LEAST VERBALLY)

(continue on another sheet, if necessary)

Signature Robert J. Antew
Title P.E. II

S.W. ROUTING

DA : 3-21-94

- Kim Ford _____
- Steve Morgan _____
- Allison Amram 3-21
- Stephanie Hinson _____
- Danielle Nichols _____
- Susan Pelz 3/23

DISPOSITION AFTER REVIEW

- FILE
- Return to Bob Butera

COMMENTS ?

The water balance chart they gave us indicates 2-5% evaporation rate but ~~2~~ 0 gallons evaporated. How can this be? I think I'm missing something on where the numbers come from. I agree that spraying over the active portion will buy them some time. I have some reservations about the spray field - but I ~~could~~ ~~not~~ haven't looked at the whole picture yet.

3/21

Bob. Our recommendation to spray along the LF seems best. They don't have the underdrain system for handling any excess H₂O moving it to the trench.

If you are interested in checking out the use of part of the sprayfield, we can look @ Mow's report & see how to modify the old spray system. One question - Aren't they going to be working in the sprayfield over the next 45 days? Wouldn't it be wet & in their way? Allison

- Daily water balances from 3/01/94 - 3/18/94
- spray field diagram and spray proposal
- page 6 of Mevers and Associates Hydrogeological Evaluation
- Evapotranspiration chart from the DEP, Bureau of Surface Water Management

According to Mevers and Associates Hydrogeological Evaluation,

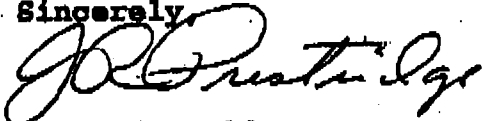
Phone: (813) 773-5089 . FAX: (813) 773-0958

Page 2 of 2

the spray field area should be capable of handling 25,000 gallons per day of effluent without any long-term accumulation of water over the spray field. With rainy season approaching, we need to get the ditch elevation down to 74.20 which is a difference of 496,403 gallons of leachate. Considering evapotranspiration and the water quality of the leachate, spraying 25,000 gallons of leachate should not cause any adverse effects. 25,000 gallons is equal to 81 minutes of spraying time. We propose to spray in 20 minute sets with an hour rest between spraying to help increase the evaporation.

We respectfully request your permission to spray 25,000 gallons per day in conjunction with hauling 24,000 gallons per day to treatment until we obtain a low water elevation in the ditch and complete the spray field improvements. This will allow us some storage area for the onset of rainy season.

Sincerely,



J.R. Prestridge,
Solid Waste Superintendent

jw

cc: Gary Oden, County Manager
Wade-Trim Engineering

HARDEE COUNTY SANITARY LANDFILL

SUMMARY

HAULING AND TREATMENT OF LEACHATE

**HAULED BY: J & J BAKER ENTERPRISES, INC.
P.O. BOX 1843
PUNTA GORDA, FL 33951**

**TREATMENT BY: SHORT UTILITY SERVICE INC.
P.O. BOX 1088
SEBRING, FL 33871**

<u>DATE</u>	<u>AMOUNT IN GALLONS</u>
1/28/94	12,000
1/31/94	24,000
2/01/94	24,000
2/02/94	24,000
2/03/94	24,000
2/04/94	6,000
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2/15/94	24,000
2/16/94	24,000
2/17/94	24,000
2/18/94	24,000
2/21/94	24,000
2/22/94	24,000
2/23/94	24,000
2/24/94	24,000
2/25/94	24,000
2/28/94	24,000

TOTAL TO DATE: 510,000 GALLONS

HAULING COST TO DATE:
486,000 GALLONS X \$24.75 PER 1,000 GALLONS = \$12,028.50
24,000 GALLONS X 21.88 PER 1,000 GALLONS = 525.12
TOTAL \$12,553.62

TREATMENT COST TO DATE:
510,000 GALLONS X \$.035 PER GALLON = \$17,850.00

TOTAL COST TO DATE \$30,472.50

HARDEE COUNTY SANITARY LANDFILL

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3/11/94	24,000
3/14/94	24,000
3/15/94	24,000
3/16/94	24,000

TOTAL 240,000

HAULING COST TO DATE:
240,000 GALLONS X \$21.88 PER 1,000 = \$5,251.20

TREATMENT COST TO DATE:
240,000 GALLONS X \$.025 PER GALLON = \$6,000.00

TOTAL \$11,251.20

HAULED BY: J & J BAKER ENTERPRISES, INC.

TREATMENT BY: CITY OF WAUCHULA

<u>DATE</u>	<u>AMOUNT IN GALLONS</u>
3/17/94	48,000
3/18/94	24,000

TOTAL 72,000

HAULING COST TO DATE:
72,000 GALLONS X \$14.60 PER 1,000 = \$1,051.20

TREATMENT COST TO DATE:
MINIMUM RATE / FIRST 5,000 GALLONS = \$ 139.92
67,000 GALLONS X \$2.75 PER 1,000 = 184.25
25% SURCHARGE 81.04

TOTAL \$ 405.21

TOTAL \$1,456.41

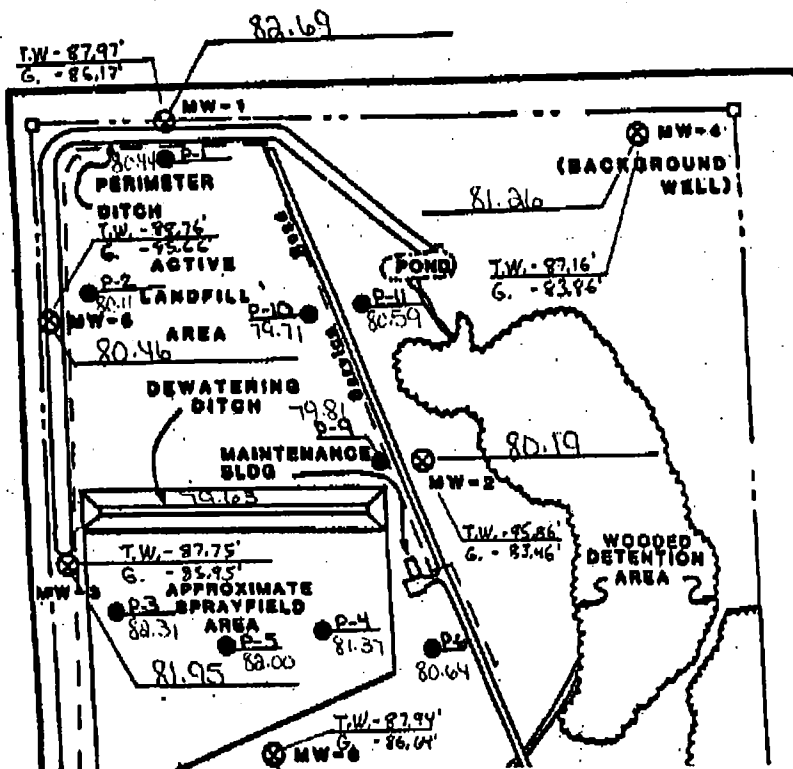
HARDEE COUNTY SANITARY LANDFILL
GROUNDWATER ELEVATIONS

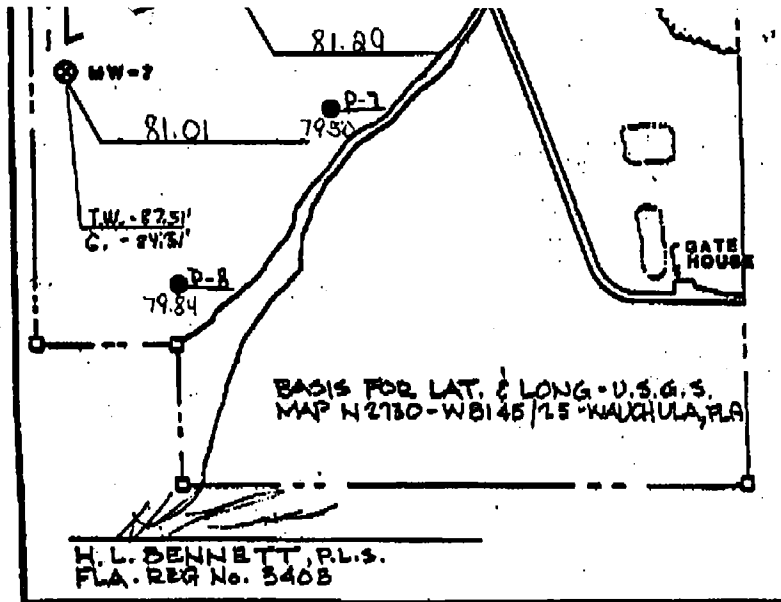
DATE: 3/16/94

RECORDED BY: [Signature]

LOCATION	ELEVATION TOP OF CASING	ELEVATION AT LAND SURFACE	HEIGHT OF CASING ABOVE L.S.	WATER DEPTH FROM TOP OF CASING	GROUNDWATER ELEVATION
MW-1	87.97	86.24	1.73	5.28	82.69
MW-2	85.86	83.68	2.18	5.67	80.19
MW-3	87.75	86.07	1.68	5.80	81.95
MW-4	87.16	84.44	2.72	5.90	81.26
MW-5	88.78	85.76	3.00	8.30	80.46
MW-6	87.94	84.68	3.26	6.65	81.29
MW-7	87.51	84.55	2.96	6.50	81.01
P-1	91.27	88.97	2.30	10.83	80.44
P-2	90.66	87.66	3.00	10.55	80.11
P-3	89.05	86.50	2.45	6.74	82.31
P-4	88.24	85.36	2.88	6.87	81.37
P-5	89.25	86.42	2.83	7.25	82.00
P-6	85.94	83.44	2.50	5.30	80.64
P-7	84.04	81.84	2.20	4.54	79.50
P-8	84.74	82.67	2.08	4.90	79.84
P-9	87.06	84.81	2.25	7.25	79.81
P-10	88.56	86.40	2.16	8.85	79.71
P-11	87.16	85.08	2.08	6.57	80.59

WATER ELEVATION IN THE DEWATERING DITCH: 79.63

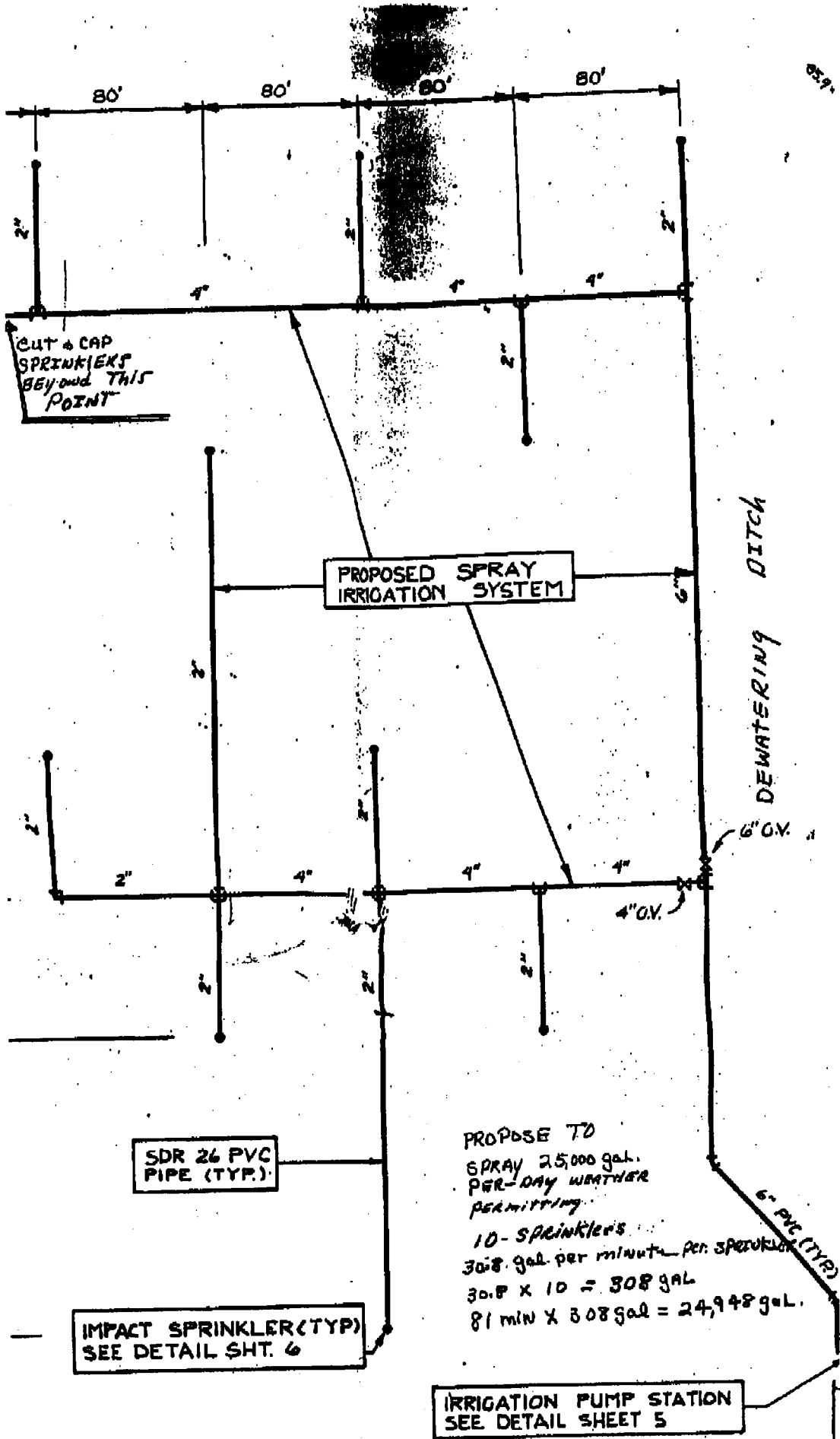




MONITOR WELL LOCATION
 REGIONAL SANITARY LANDFILL, HARDEE C

DAILY WATER BALANCE FOR HARDEE COUNTY SANITARY LANDFILL

DATE	AIR TEMP	WIND SPEED M.P.H	HUMIDITY	RAIN FALL INCHES	RAIN FALL GAL.	STAFF GAUGE	GAL. STORED	METER READING	GAL. PUMPED	EVAPORATION RATE	GAL. EVAPORATED	TREATMENT	OTHER
3/01/94	73 F	18	83%	0	0	7.71	884,214	-	0	4.5%	0	24,000	0
3/02/94	78 F	25	73%	2.50"	110,625	8.28	1029360	-	0	5.0%	0	0	0
3/03/94	67 F	25	66%	0	0	8.31	1037239	-	0	5.0%	0	0	0
3/04/94	74 F	15	53%	0	0	8.27	1026743	-	0	5.2%	0	24,000	0
3/05/94	81 F	10	60%	0	0	8.29	1031977	-	0	4.5%	0	0	0
3/06/94													
3/07/94	80 F	5	67%	0	0	8.30	1034594	-	0	2.5%	0	24,000	0
3/08/94	83 F	3	59%	0	0	8.27	1026743	-	0	2.4%	0	24,000	0
3/09/94	85 F	7	83%	0	0	8.24	1018891	-	0	2.5%	0	24,000	0
3/10/94	80 F	12	89%	0	0	8.23	1016274	-	0	3.3%	0	24,000	0
3/11/94	81 F	7	67%	0	0	8.24	1018891	-	0	3.0%	0	24,000	0
3/12/94	85 F	10	60%	0	0	8.22	1013657	-	0	4.4%	0	0	0
3/13/94													
3/14/94	78 F	12	53%	0	0	8.23	1016274	-	0	5.1%	0	24,000	0
3/15/94	81 F	10	61%	0	0	8.17	1000655	-	0	4.1%	0	24,000	0
3/16/94	80 F	10	60%	0	0	8.13	990,597	-	0	4.4%	0	24,000	0
3/17/94	80 F	9	54%	0	0	8.13	990,597	-	0	4.1%	0	48,000	0
3/18/94	84 F	7	47%	0	0	7.96	946,778	-	0	4.2%	0	24,000	0
3/19/94													
3/20/94													



CUT & CAP
SPRINKLERS
BEYOND THIS
POINT

PROPOSED SPRAY
IRRIGATION SYSTEM

DEWATERING DITCH

SDR 26 PVC
PIPE (TYP.)

IMPACT SPRINKLER (TYP)
SEE DETAIL SHT. 6

IRRIGATION PUMP STATION
SEE DETAIL SHEET 5

PROPOSE TO
SPRAY 25,000 gal.
PER-DAY WEATHER
PERMITTING
10-SPRINKLERS
308 gal. per minute per sprinkler
30.8 x 10 = 308 gal
81 min x 308 gal = 24,948 gal.

05.9

MEVERT J. KEMURU

Hydrogeological Evaluation
Hardes County Landfill
Page 6

the sprayfield area were evaluated to make sure that they did not rise above the ground surface in the sprayfield area.

The results of our three-dimensional computer groundwater analysis for the disposal system are presented on the computer output sheets included in Appendix B. Based on the results of our modelling, the sprayfield area should be capable of handling 25,000 gpd of effluent without any long-term accumulation of water over the spray field.

Task 3: Development of Groundwater Contour Map

One of the requirements by DER for renewal of the landfill operating permit was that a shallow groundwater contour map be developed, and from this map, determine if the side liner and perimeter Leachate Collection System were effective in maintaining a negative gradient inward towards the landfill.

Using this data as input to the MODFLOW model previously discussed, the groundwater levels were predicted across the site. From this data, groundwater contours were developed and are indicated on the site plan (Plate 6). Based on these contours, it can be seen that the side liner and the perimeter Leachate Collection System are effectively maintaining a head differential of from -1 to -4 feet between the inside and the outside of the side liner.

a mitigation plan."

Regulators also want to know the source of water that will be used to

SUCCEED

Continued On Page 26



widhtie and any appreciable wetland values. Melaleuca trees had begun their invasion of the area, forcing out

BANK

Continued On Page 26

To Counteract Runoff's Effects, Cities Turn To Innovative Practices

By PRAKASH GANDHI
Specifier Correspondent

It calls itself The City Beautiful. But in the late 1970s, many of the city of Orlando's lakes were far from that.

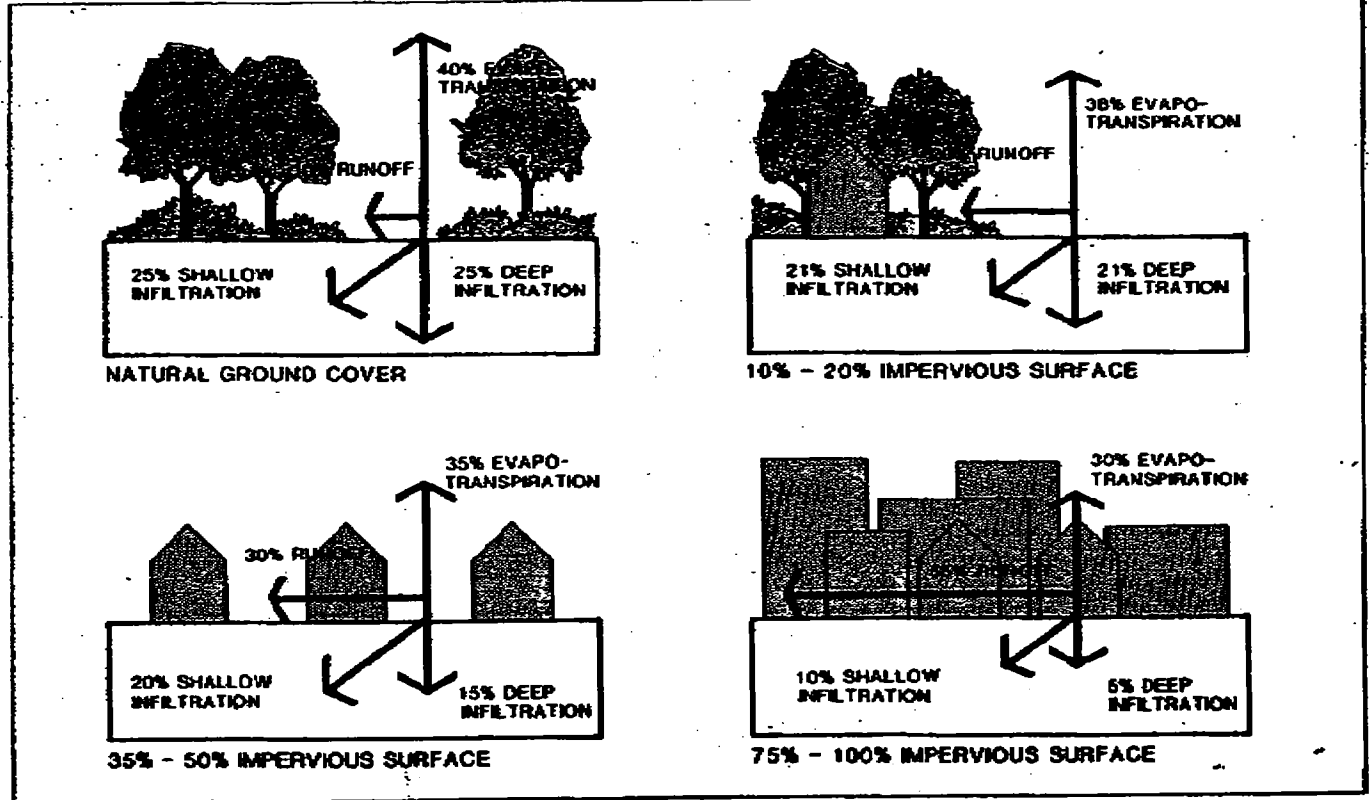
Storm runoff had taken a devastating toll on one of the city's most attractive and important features, causing fish to die and the widespread growth of algae. Today, with innovative management techniques, the city has achieved much success in battling a problem that plagues governments and industries throughout the land.

Although it's been a leader in the war against storm runoff, Orlando hasn't been alone in developing sophisticated methods for dealing with this threat to Florida's surface waters. Other cities and counties have been aggressive in finding solutions to their stormwater problems.

A major contributor to surface water pollution in many areas of Florida, stormwater discharges are believed to be responsible for more than half the pollution load entering the state's rivers, lakes and estuaries.

Studies in Florida have determined that the first inch of runoff generally carries 90% of the pollution that a storm rinses from streets, parking lots, roofs and lawns.

Back in the late 1970s and early 1980s, Orlando began seeing the detrimental effects of stormwater on



Changes in runoff flows result from paved surfaces.

Source: Department Of Environmental Protection, Bureau of Surface Water Management

the city's lakes. "We noticed a lot of pollution in our lakes, a lot of phosphorus, nitrogen and heavy metals," said Rick Howard, chief of the city's streets and drainage bureau. "We saw a shift to an algae-dominated system, and it just looked awful."

Protecting lake quality was important, Howard said, because lakes are

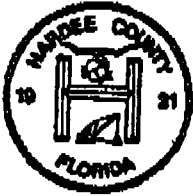
one of the city's best assets. "They are very visible, people live around them and use them for recreation. So they were a top priority for us."

City officials adopted several methods to boost lake quality. The city replanted littoral zones—areas of submerged shoreline vegetation—along many of its lakes to filter pol-

lutants. The plants and trees helped absorb the nutrients in the runoff that would otherwise have ended up in the lakes, Howard said. In addition, chain link fences were constructed outside pipes that empty

CITIES

Continued On Page 24



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

*You may have received this
 at the beginning of fax.
 I wasn't sure if it
 went through.*

Page 1 of 2

March 18, 1994

Department of Environmental Protection
 Attention: Bob Butera, P.E.
 Solid Waste Section
 3804 Coconut Palm Drive
 Tampa, FL 33619

RE: Status Report

Dear Mr. Butera:

As of today's date, we have hauled 822,000 gallons of leachate to waste water treatment facilities. The cost of combined treatment and hauling is \$43,180.00 to date. The water elevation in the ditch is 79.46 which is equivalent to 946,778 gallons of leachate.

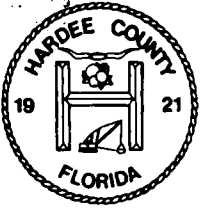
We have secured a contract with the City of Wauchula in the efforts to reduce treatment cost. We have also purchased our own tanker in effort to reduce hauling cost.

For your perusal, I have enclosed copies of the following:

- * treatment and hauling summaries
- * water elevations taken from the monitoring wells and piezometers on 3/16/94
- * daily water balances from 3/01/94 - 3/18/94
- * spray field diagram and spray proposal
- * page 6 of Mevers and Associates Hydrogeological Evaluation
- * Evapotranspiration chart from the DEP, Bureau of Surface Water Management

According to Mevers and Associates Hydrogeological Evaluation,

Phone: (813) 773-5089 . FAX: (813) 773-0958



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

D.E.P.

MAR 22 1994

SOUTHWEST DISTRICT
TAMPA

Page 1 of 2

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Page 2 of 2

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Sincerely,



J.R. Prestridge,
Solid Waste Superintendent

jw

cc: Gary Oden, County Manager
Wade-Trim Engineering

HARDEE COUNTY SANITARY LANDFILL

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TREATMENT BY: SHORT UTILITY SERVICE INC.
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HARDEE COUNTY SANITARY LANDFILL

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240,000 GALLONS X \$21.88 PER 1,000 = \$5,251.20

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25% SURCHARGE 81.04

TOTAL \$ 405.21

TOTAL \$1,456.41

HARDEE COUNTY SANITARY LANDFILL

GROUNDWATER ELEVATIONS

DATE: 3/16/94

RECORDED BY: [Signature]

LOCATION	ELEVATION TOP OF CASING	ELEVATION AT LAND SURFACE	HEIGHT OF CASING ABOVE L.S.	WATER DEPTH FROM TOP OF CASING	GROUNDWATER ELEVATION
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MW-4	87.16	84.44	2.72	5.90	81.26
MW-5	88.76	85.76	3.00	8.30	80.46
MW-6	87.94	84.68	3.26	6.65	81.29
MW-7	87.51	84.55	2.96	6.50	81.01
P-1	91.27	88.97	2.30	10.83	80.44
P-2	90.66	87.66	3.00	10.55	80.11
P-3	89.05	86.60	2.45	6.74	82.31
P-4	88.24	85.36	2.88	6.87	81.37
P-5	89.25	86.42	2.83	7.25	82.00
P-6	85.94	83.44	2.50	5.30	80.64
P-7	84.04	81.84	2.20	4.54	79.50
P-8	84.74	82.67	2.08	4.90	79.84
P-9	87.06	84.81	2.25	7.25	79.81
P-10	88.56	86.40	2.16	8.85	79.71
P-11	87.16	85.08	2.08	6.57	80.59

WATER ELEVATION IN THE DEWATERING DITCH: 79.63

HARDEE COUNTY SANITARY LANDFILL

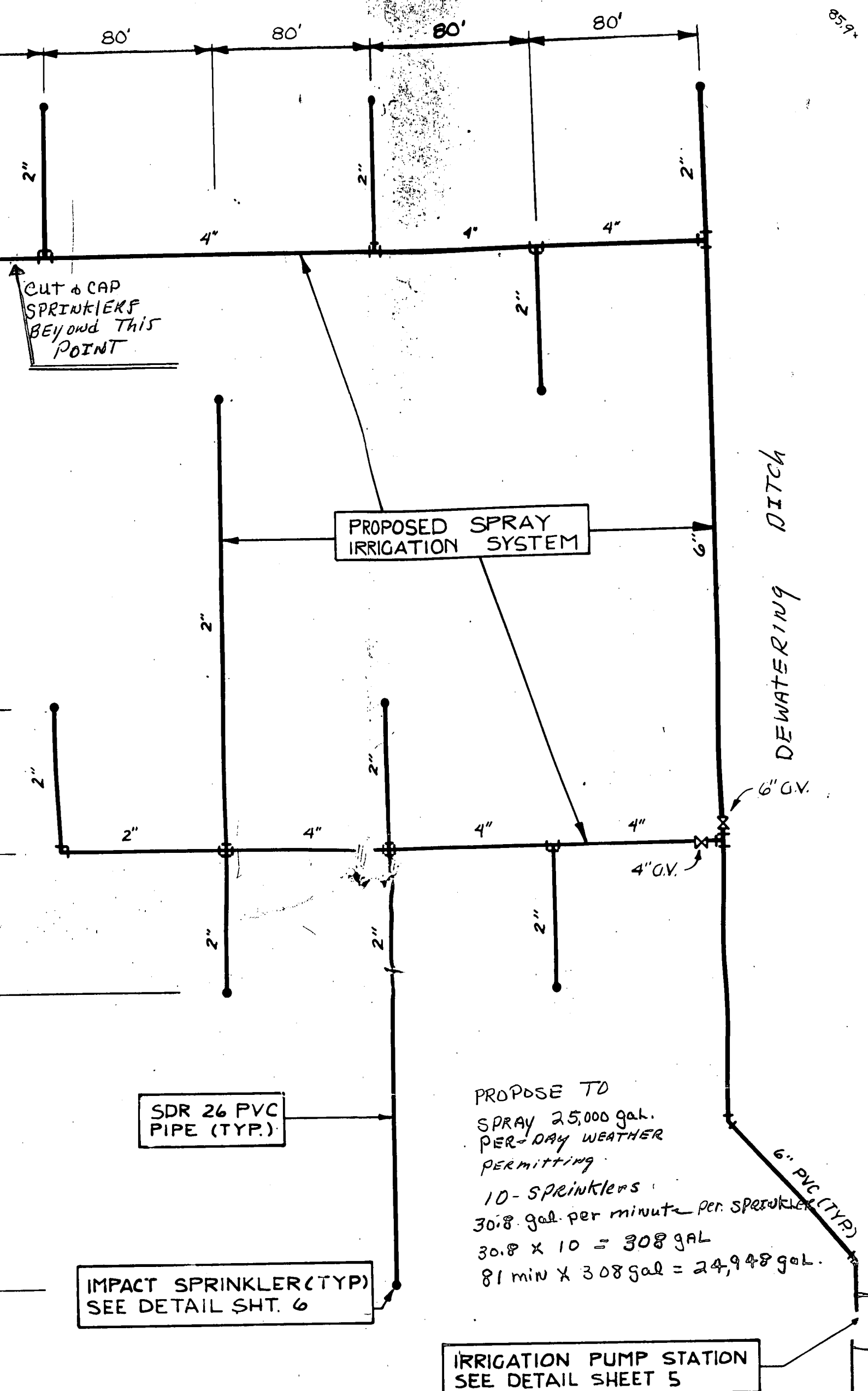
GROUNDWATER ELEVATIONS

DATE: 16 MAR. 1994

READINGS TAKEN BY: J. Hutto, STEVE STRICKLAND

<u>LOCATION</u>	<u>WATER DEPTH FROM TOP OF CASING</u>
MW-1	<u>5.28</u>
MW-2	<u>5.67</u>
MW-3	<u>5.80</u>
MW-4	<u>5.90</u>
MW-5	<u>8.30</u>
MW-6	<u>6.65</u>
MW-7	<u>6.50</u>

P-1	<u>10.83</u>
P-2	<u>10.55</u>
P-3	<u>6.74</u>
P-4	<u>6.87</u>
P-5	<u>7.25</u>
P-6	<u>5.30</u>
P-7	<u>4.54</u>
P-8	<u>4.90</u>
P-9	<u>7.25</u>
P-10	<u>8.85</u>
P-11	<u>6.57</u>



PROPOSED SPRAY IRRIGATION SYSTEM

DEWATERING DITCH

SDR 26 PVC PIPE (TYP.)

IMPACT SPRINKLER (TYP.)
SEE DETAIL SHT. 6

IRRIGATION PUMP STATION
SEE DETAIL SHEET 5

PROPOSE TO
 SPRAY 25,000 gal.
 PER-DAY WEATHER
 PERMITTING
 10-SPRINKLERS
 30.8 gal. per minute per SPRINKLER
 $30.8 \times 10 = 308 \text{ GAL}$
 $81 \text{ MIN} \times 308 \text{ gal} = 24,948 \text{ gal.}$

CUT & CAP
 SPRINKLERS
 BEYOND THIS
 POINT

Hydrogeological Evaluation
Hardee County Landfill
Page 6

the sprayfield area were evaluated to make sure that they did not rise above the ground surface in the sprayfield area.

The results of our three-dimensional computer groundwater analysis for the disposal system are presented on the computer output sheets included in Appendix B. Based on the results of our modelling, the sprayfield area should be capable of handling 25,000 gpd of effluent without any long-term accumulation of water over the spray field.

Task 3: Development of Groundwater Contour Map

One of the requirements by DER for renewal of the landfill operating permit was that a shallow groundwater contour map be developed, and from this map, determine if the side liner and perimeter Leachate Collection System were effective in maintaining a negative gradient inward towards the landfill.

Using this data as input to the MODFLOW model previously discussed, the groundwater levels were predicted across the site. From this data, groundwater contours were developed and are indicated on the site plan (Plate 6). Based on these contours, it can be seen that the side liner and the perimeter Leachate Collection System are effectively maintaining a head differential of from -1 to -4 feet between the inside and the outside of the side liner.

most important factor in developing a mitigation plan."

Regulators also want to know the source of water that will be used to

SUCCEED

Continued On Page 26



wildlife and any appreciable wetland values. Melaleuca trees had begun their invasion of the area, forcing out

BANK

Continued On Page 26

To Counteract Runoff's Effects, Cities Turn To Innovative Practices

By PRAKASH GANDHI
Specifier Correspondent

It calls itself The City Beautiful. But in the late 1970s, many of the city of Orlando's lakes were far from that.

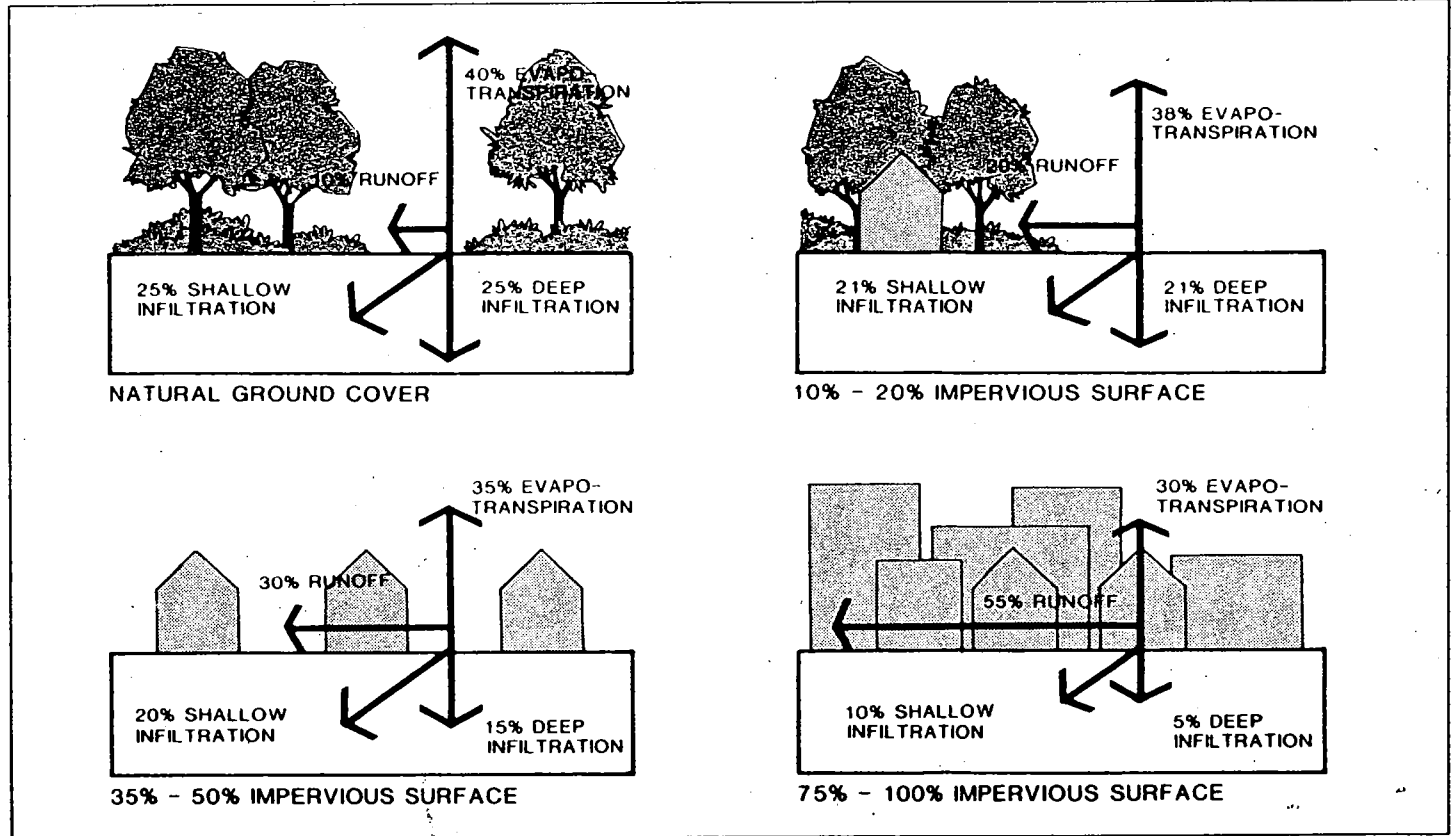
Storm runoff had taken a devastating toll on one of the city's most attractive and important features, causing fish to die and the widespread growth of algae. Today, with innovative management techniques, the city has achieved much success in battling a problem that plagues governments and industries throughout the land.

Although it's been a leader in the war against storm runoff, Orlando hasn't been alone in developing sophisticated methods for dealing with this threat to Florida's surface waters. Other cities and counties have been aggressive in finding solutions to their stormwater problems.

A major contributor to surface water pollution in many areas of Florida, stormwater discharges are believed to be responsible for more than half the pollution load entering the state's rivers, lakes and estuaries.

Studies in Florida have determined that the first inch of runoff generally carries 90% of the pollution that a storm rinses from streets, parking lots, roofs and lawns.

Back in the late 1970s and early 1980s, Orlando began seeing the detrimental effects of stormwater on



Changes in runoff flows result from paved surfaces.

Source: Department Of Environmental Protection, Bureau of Surface Water Management

the city's lakes. "We noticed a lot of pollution in our lakes, a lot of phosphorus, nitrogen and heavy metals," said Rick Howard, chief of the city's streets and drainage bureau. "We saw a shift to an algae-dominated system, and it just looked awful."

Protecting lake quality was important, Howard said, because lakes are

one of the city's best assets. "They are very visible, people live around them and use them for recreation. So they were a top priority for us."

City officials adopted several methods to boost lake quality. The city replanted littoral zones—areas of submerged shoreline vegetation—along many of its lakes to filter pol-

lutants. The plants and trees helped absorb the nutrients in the runoff that would otherwise have ended up in the lakes, Howard said. In addition, chain link fences were constructed outside pipes that empty

CITIES

Continued On Page 24



Lawton Chiles
Governor

Florida Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

March 24, 1994

J.R. Prestridge, Solid Waste Superintendent
Hardee County
P.O. Box 246
Wauchula, FL 33873

RE: Hardee County Sanitary Landfill
Permit #: SO25-164435

Dear Mr. Prestridge:

The permit conditions for Hardee County Sanitary Landfill specify the frequency and sampling parameters for the groundwater monitoring plan. Review of your latest groundwater reports, dated March 8, 1994, indicates the following deficiencies:

Toluene in MW-7 exceeds above the background water quality. In addition, all parameters specified in your permit were not analyzed. The following parameters need to be included in the next quarterly report:

manganese
sulfate

Turbidity values are high in wells MW-2 & 7. Please re-evaluate the well purging and sampling techniques in order to reduce turbidity in the groundwater sample. If no improvement is observed after changes have been implemented, then redevelopment of the wells may be necessary to improve the quality of the groundwater sample. When the turbidity is elevated, the groundwater samples collected may not be representative of actual groundwater conditions.

Please note that you may resample the wells for these parameters to confirm the concentration of that parameter. If you choose to resample, provide analytical results to this office within 60 days. If you choose not to resample, these results will be considered valid.

If you have any questions please call me at (813) 744-6100 ext. 336.

Sincerely,

Allison Amram, P.G.
Solid Waste Section



Lawton Chiles
Governor

Florida Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

March 23, 1994

J.R. Prestridge, Solid Waste Superintendent
Hardee County
P.O. Box 246
Wauchula, FL 33873

RE: Hardee County Leachate Sampling
Permit #: SO25-164435

Dear Mr. Prestridge:

As you are aware, Chapter 17-701, Florida Administrative Code was modified, effective 1-2-94, in order to more closely match the Federal Rule, 40 CFR Parts 257 and 258, and hopefully gain State approval from EPA. The leachate sampling parameters and analyses periods were among the changes made. It is important that your laboratory is aware of these changes and has Department approval for all analyses in their Quality Assurance Plan (QAP). All sampling activities conducted for permit compliance must be done under approved Department QAPs.

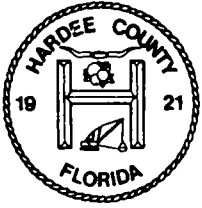
The Department understands that the implementation of these changes will cause some confusion in coordinating the modified list of sampling parameters with your laboratory's QAP. However, we would appreciate your efforts to make sure that your laboratory is analyzing for the correct parameters to avoid future problems.

If you have any questions please call me at (813) 744-6100 ext. 336.

Sincerely,

A handwritten signature in cursive script that reads "Allison Amram".

Allison Amram, P.G.
Solid Waste Section



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

D.E.P.

MAR 17 1994

SOUTHWEST DISTRICT
TAMPA

March 15, 1994

Department of Environmental Protection
Kim B. Ford, P.E.
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619

RE: Staff Gauge Elevation

Dear Mr. Ford:

As stated in recent correspondence, I have enclosed a certified survey of the staff gauge elevation, for your records.

Thank You,

Janice Williamson,
Recycling Coordinator
Executive Secretary

jw

CC: Steve Dutch, P.E.
Bob Butera, DEP

SPECIFIC PURPOSE SURVEY

PURPOSE: TO ESTABLISH ACTUAL ELEVATION ON AN EXISTING STAFF GAUGE AT THE HARDEE COUNTY SANITARY LAND FILL. ELEVATION SHOWN ON PAGE 2 OF 2, IS BASED ON NATIONAL GEODETIC VERTICAL DATUM. IT APPEARS THAT THE ORIGINAL ELEVATIONS ARE INCORRECT.

NOTES

1. ELEVATION ESTABLISHED: 2-1-94
2. ELEVATION BASED ON NATIONAL VERTICAL GEODETIC DATUM DATED 1929.
3. THIS IS A SPECIFIC PURPOSE SURVEY ONLY.

CERTIFIED TO: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 21HH-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 427,027, FLORIDA STATUTES.


James D. Hull

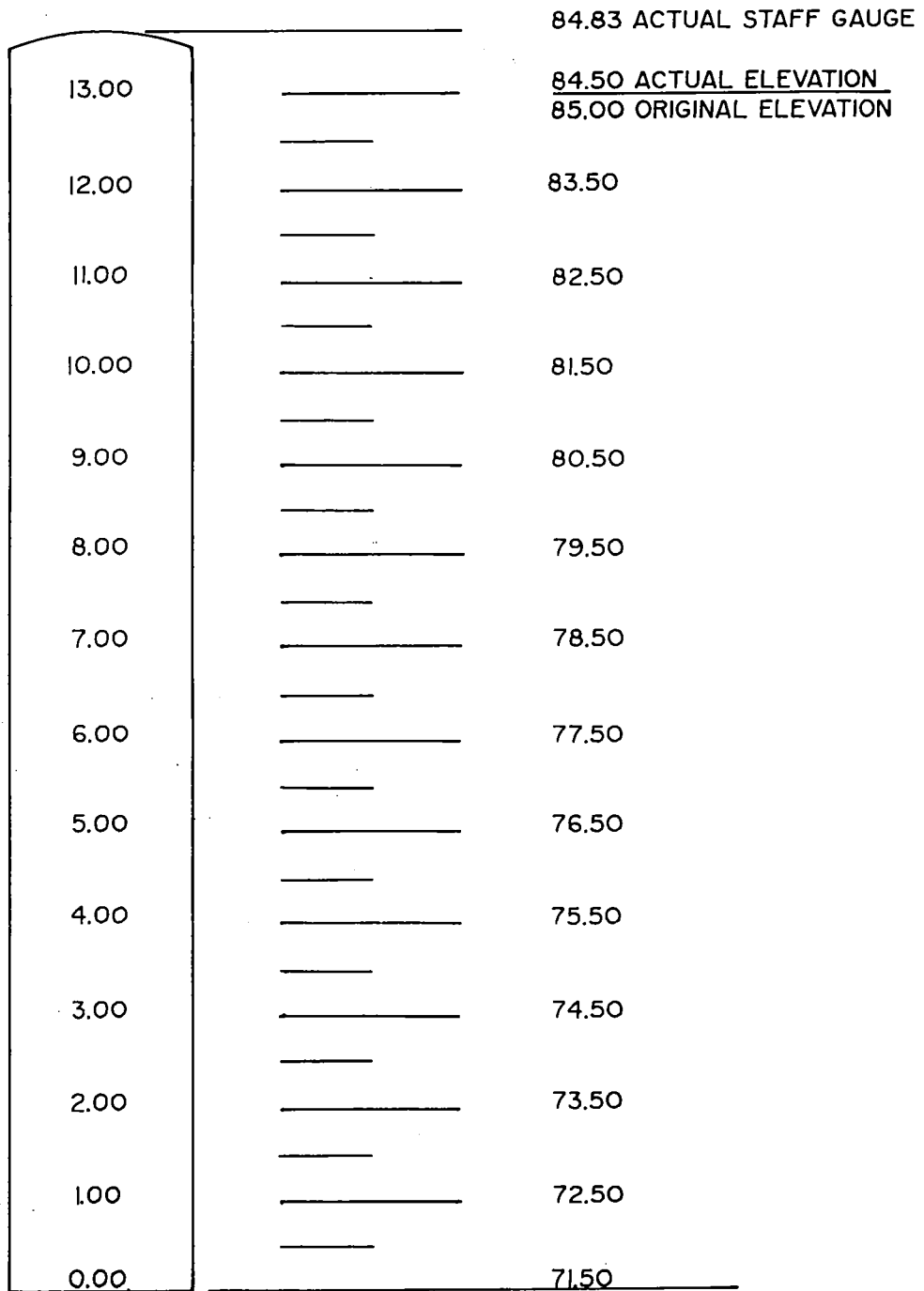
JAMES D. HULL, R.L.S.
FLA. REG. NO. 2123

3/11/94

DATE

PAGE 1 OF 2

EXISTING STAFF GAUGE AT
HARDEE COUNTY SANITARY LANDFILL



HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

Room A-204, Courthouse Annex
412 West Orange Street
Wauchula, Florida 33873-2867

(813) 773-6952 • (813) 773-9430 • FAX (813) 773-0958

MINOR L. BRYANT
District I

BENJAMIN W. ALBRITTON
District II

TED WITE
District III

ROYCE TYSON, JR.
District IV

WALTER OLLIFF, JR.
District V

GARY ODEN
County Manager

GARY A. VORBECK
County Attorney

FAX TRANSMITTAL

DATE: 3/15/94
TIME: 9:15 a.m.

TO: Bob Butera

DEP
S.W. Section

COPIES TO:

FAX NUMBER:
813-744-6125

FROM: Hardee County

SUBJECT: Spray Field
Leachete

NUMBER OF PAGES: 8
(Including this sheet)

PLEASE DELIVER THESE PAGES TO THE INDIVIDUAL NAMED ABOVE. IF YOU HAVE ANY DIFFICULTY RECEIVING THIS TRANSMISSION OR IF PAGES ARE MISSING OR ILLEGIBLE, PLEASE CALL ~~813/773-6952~~ OR 813/773-9430 AND SPEAK WITH:

Janice

* COMMENTS:

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"An Equal Opportunity Employer"

SPECIFIC PURPOSE SURVEY

PURPOSE: TO ESTABLISH ACTUAL ELEVATION ON AN EXISTING STAFF GAUGE AT THE HARDEE COUNTY SANITARY LAND FILL. ELEVATION SHOWN ON PAGE 2 OF 2, IS BASED ON NATIONAL GEODETIC VERTICAL DATUM. IT APPEARS THAT THE ORIGINAL ELEVATIONS ARE INCORRECT.

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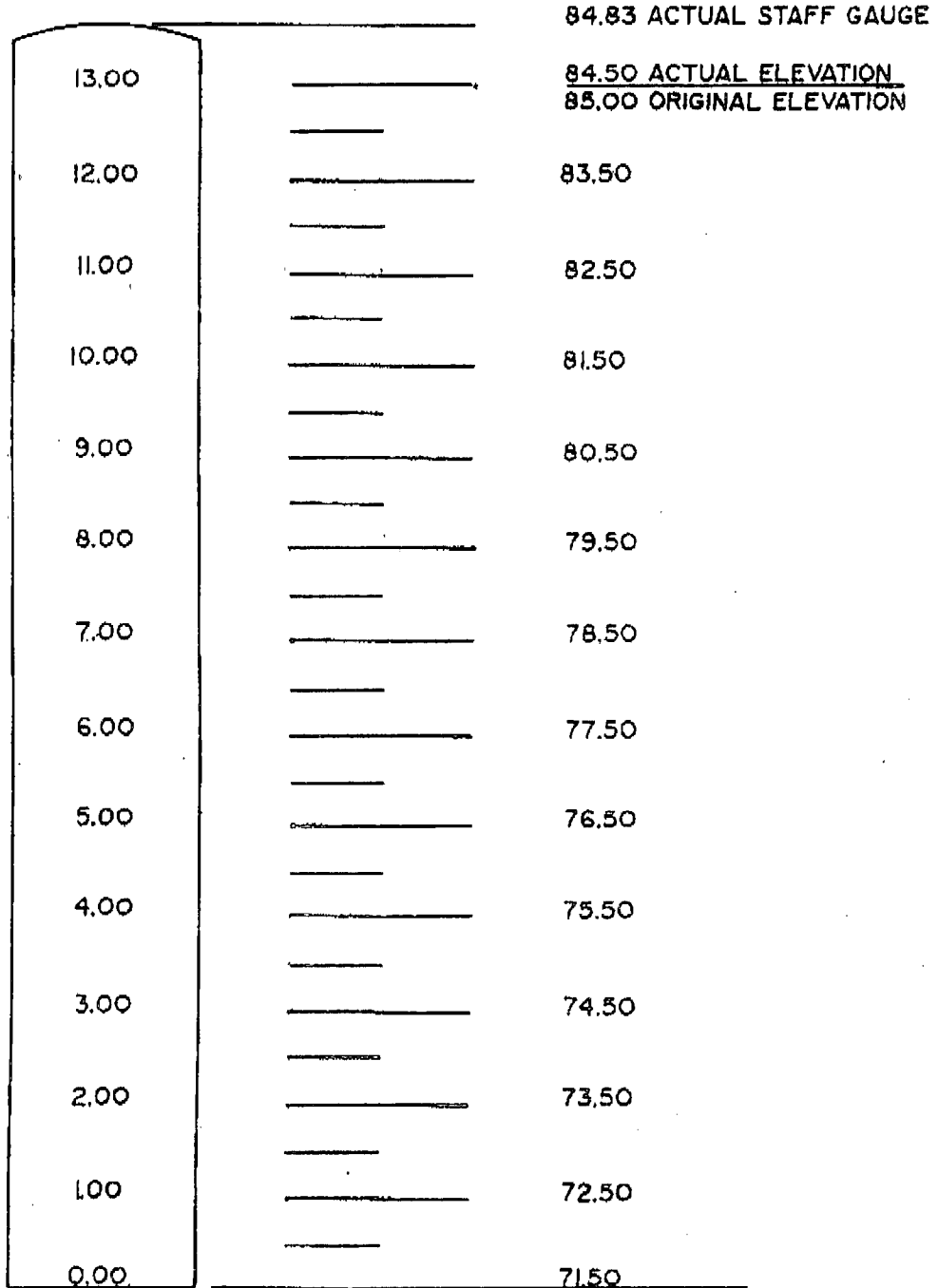
CERTIFIED TO: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS.

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 21HH-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 427,027, FLORIDA STATUTES.


JAMES D. HULL, R.L.S. 3/11/94
FLA. REG. No. 2123 DATE

EXISTING STAFF GAUGE AT
HARDEE COUNTY SANITARY LANDFILL



HARDEE COUNTY SANITARY LANDFILL

GROUNDWATER ELEVATIONS

DATE: 3/9/94RECORDED BY: [Signature]

LOCATION	ELEVATION TOP OF CASING	ELEVATION AT LAND SURFACE	HEIGHT OF CASING ABOVE L.S.	WATER DEPTH FROM TOP OF CASING	GROUNDWATER ELEVATION
MW-1	87.97	86.24	1.73	4.70	83.27
MW-2	85.86	83.68	2.18	5.20	80.66
MW-3	87.75	86.07	1.68	5.35	82.40
MW-4	87.16	84.44	2.72	5.40	81.76
MW-5	88.76	85.76	3.00	7.90	80.86
MW-6	87.94	84.68	3.26	6.00	81.94
MW-7	87.51	84.55	2.96	5.80	81.71
P-1	91.27	88.97	2.30	10.80	80.47
P-2	90.66	87.66	3.00	10.50	80.16
P-3	89.05	86.60	2.45	6.20	82.85
P-4	88.24	85.36	2.88	6.40	81.84
P-5	89.25	86.42	2.83	6.70	82.55
P-6	85.94	83.44	2.50	4.50	81.44
P-7	84.04	81.84	2.20	3.40	80.64
P-8	84.74	82.67	2.08	4.20	80.54
P-9	87.06	84.81	2.25	7.20	79.86
P-10	88.56	86.40	2.16	8.70	79.86
P-11	87.16	85.08	2.08	6.10	81.06

WATER ELEVATION IN THE DEWATERING DITCH: 79.74 3-9-94

EXISTING BARBED WIRE FENCE

6" DIA. MARKER
POLES (TYP.)

FILL

MONIT
WELL

EXISTING SIDE LINER

400' - 8" CSPE AT 0.2%

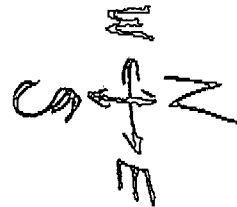
MH #6
INV. 78.40

60' - 8" PVC
OUTFALL LINE
SEE DETAIL SHT. 4

DEWATERING DITCH

MARCH 14, 1994
DEWATERING DITCH
EIV. 79.83
MAINHOLE # 6
78.40

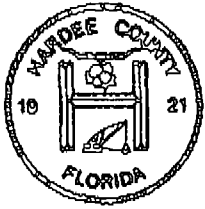
ACTIVE LANDFILL



SPOT ELEVATION (TYP)

85.05

86.67



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

March 15, 1994

Department of Environmental Protections
Attention: Bob Butera
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619

RE: Requested information

Dear Mr. Butera:

Enclosed you will find the following:

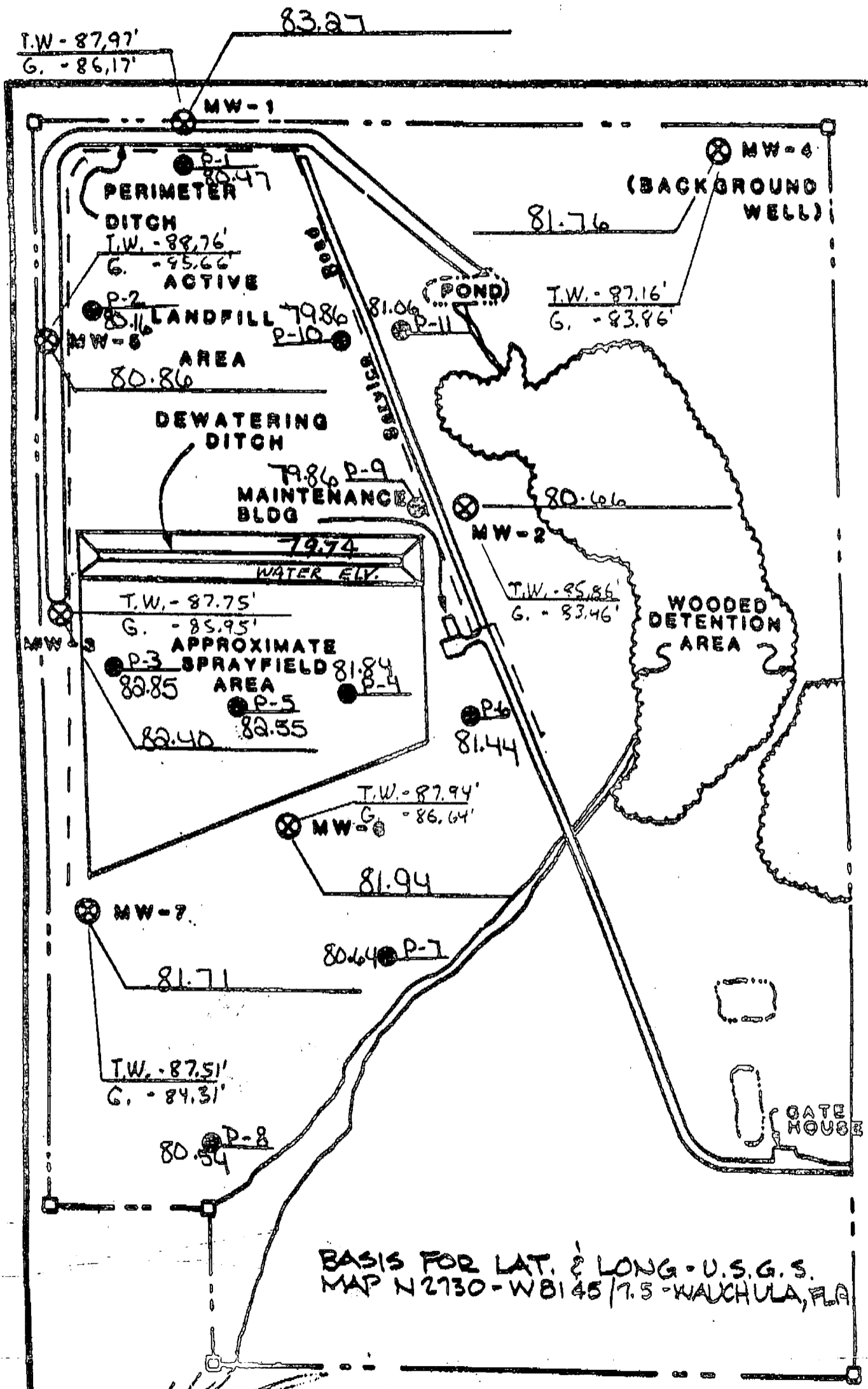
- * Ground water elevations taken from the pizometers and monitoring wells and the elevation of water in the dewatering ditch taken on March 9, 1994.
- * Site map of the area
- * Copy of Specific Purpose Survey to establish accuracy of the staff gauge.
- * Manhole invert elevations on the east and west side of the landfill which are north of the dewatering ditch.

Please contact us for further information.

Sincerely,

J.R. Prestridge,
S. W. Superintendent

jw

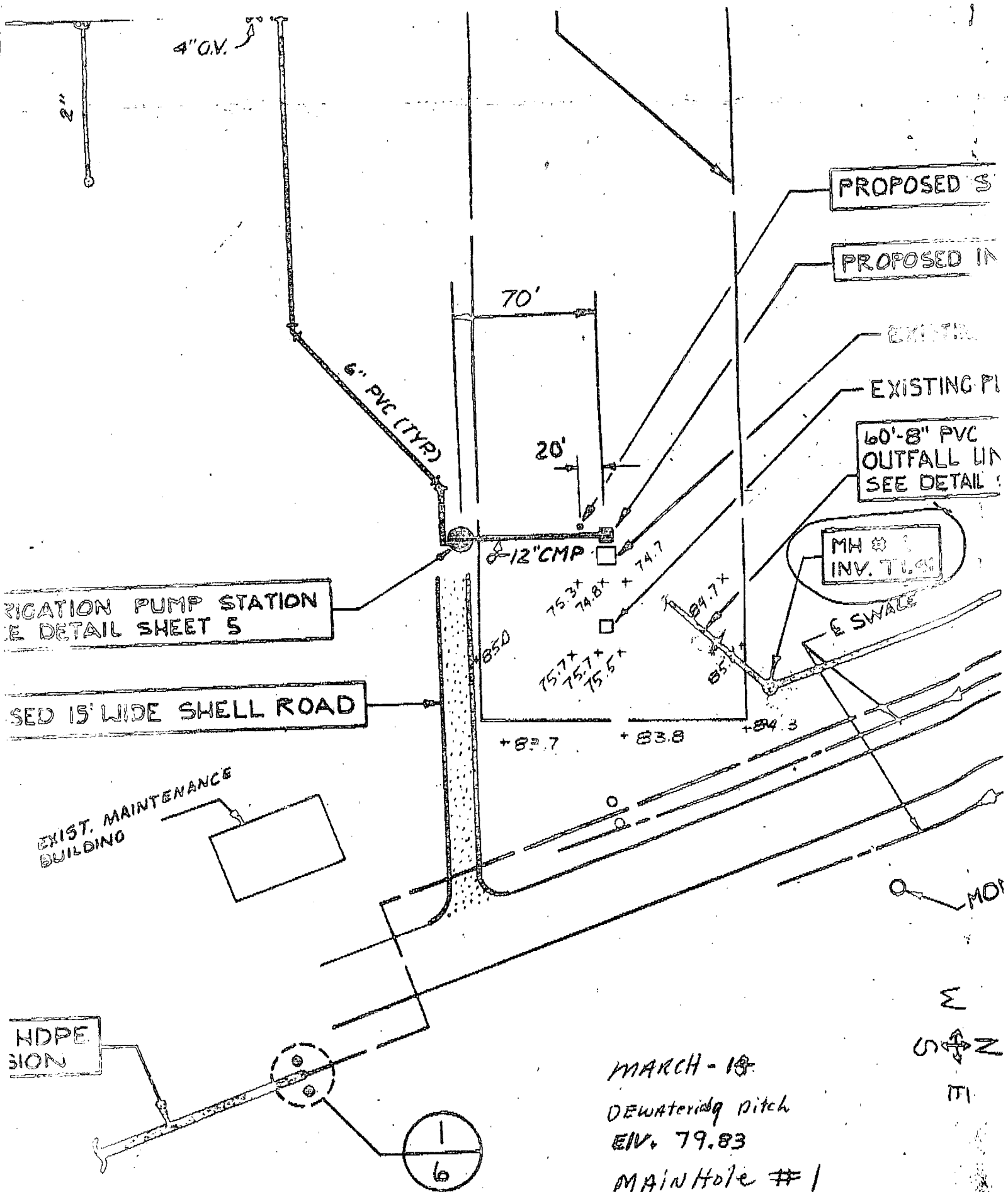


BASIS FOR LAT. & LONG. - U.S.G.S.
 MAP N2730-W8145/7.5 - WAUCHULA, FLA

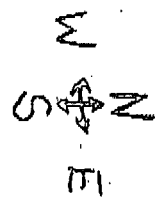
H. L. BENNETT, P.L.S.
 FLA. REG No. 3403

3-9-94

MONITOR WELL LOCATION REGIONAL SANITARY LANDFILL, HARDEE



MARCH - 19
 Dewatering ditch
 EIV. 79.83
 MAIN Hole #1
 INV. 77.41





Lawton Chiles
Governor

Florida Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

FAX TRANSMITTAL SHEET

3/14/94
Date

FAXED
3/14/94
AB

TO: J. R. PRESTRIDGE

DEPT.: SOLID WASTE - HARDEE COUNTY

FAX #: 813 773-0958

FROM: BOB BUTERA

DEPT.: D, E. P., Tampa Office

PHONE: 813-744-6100 or SunCom 542-6100 Ext. 451
FAX(local) 744-6125 or (SunCom) 542-6125

SUBJECT: LEACHATE REDUCTION WITHIN TRENCH

COMMENT: PLEASE DISREGARD THE EARLIER FAX SENT TO YOU @ 10:30
P.M. BY KIM FORD. NO BERRAS SHALL BE CONSTRUCTED
OVER THE LANDFILL. I SUGGEST YOU CONTINUE HAULING
LEACHATE AND POSSIBLY SPRAY IF REQUIRED OVER THE
NON-BALD FILLED WASTE AREA. PLEASE CALL AND I WILL
DISCUSS WITH YOU.

TOTAL NUMBER OF PAGES, INCLUDING COVER PAGE: 1

RECEIVED BY: _____

PHONE: _____

Waste
MGM

Belk
RE
[Signature]

Boaco
2/26/94

Ex-director of landfill is indicted

Escambia streams fouled, charges say

By Sara Lamb
News Journal

The former director of Escambia County's landfill was charged Friday with two counts of discharging sewage, chemical waste and other pollutants from the landfill into streams that lead to the Perdido River.

A federal grand jury returned the indictment against Charlie Miller, hired in 1987 as director of the Perdido Landfill. The charges stem from an investigation that began last fall.

Miller, who could not be reached for comment, was put on administrative leave in October and was fired last week from his position as director of the Escambia County Solid Waste Department, according to a news release Friday from county offices.



Miller
to the Perdido River ..." according to a statement from the Northern District of the U.S. Attorney's office.

The first count against Miller charges he "intentionally discharged pollutants including sewage, chemical waste, biological material, solid waste and garbage into streams leading to the Perdido River ..."

THE RELEASE said the discharge occurred without a required federal permit. The second count charges that Miller negligently discharged the same type of pollutants without authorization.

The release didn't specify the circumstances about where and when the illegal discharges occurred and officials with the U.S. Attorney's office in Tallahassee couldn't be reached for comment Friday afternoon.

"I'm not certain what evidence was presented to the grand jury. We'll have to see what facts come out in the trial," said Robert Crongeyer, an attorney hired by the county to monitor issues in the landfill investigation.

A recent report by an engineering firm hired by the county concluded that bringing the landfill up to federal and state environmental standards will cost up to \$5 million over two years.

BOB COOLEY, district administrator of the state Department of Environmental Protection, said his department turned over all files relating to the landfill at the request of the grand jury.

The FBI and the criminal investigation division of the U.S. Environmental Protection Agency worked with the U.S. Attorney's office on the investigation.

The landfill's current permit expires Oct. 1.

Questioned last fall about the federal investigation, Miller had said, "The word is they want to put me in prison, but I'd sure like to know what I've done."

If convicted on the first count, Miller faces a sentence of up to three years in prison, a minimum fine of \$5,000, or both. He faces a sentence up to one year, a minimum fine of \$2,500 — or both — on the second count.

ell
M. J. M.

Pensacola

Tuesday, March 1, 1994

Ex-landfill director not held

Keep away from guns, judge orders

By Craig Myers
News Journal

Escambia County's former landfill director was released without bond Monday pending trial on pollution charges, but not before a judge ordered him kept from his own guns.

Charlie Miller, director of the county's Perdido Landfill for six

ENVIRONMENT

years, made his first court appearance before U.S. Magistrate Susan Novotny.

Miller was indicted by a federal grand jury last week on one count of "knowingly discharging" and one count of "negligently discharging" pollutants into United States jurisdictional waters from January to September 1993.

"This is a very serious case of willful, long-term discharge of harmful fluids into the Perdido River," said Assistant U.S. Attorney Ben Beard.

Miller, who was fired Feb. 14,

would not comment.

His attorney, Ron Johnson, said Miller "adamantly maintains his innocence" and will plead not guilty Wednesday.

ALSO MONDAY, Beard asked that Miller's gun collection be taken from him during the trial.

Beard said Miller reportedly told Environmental Protection Agency investigators last summer that if they tried to arrest him they would be shot.

But Johnson said Miller is not a threat and his \$70,000 gun collection is the most precious thing to him other than his family.

"There has been no accusation of any type of violence in this

WHAT'S NEXT

Former Escambia County Landfill Director Charlie Miller will be arraigned at 9 a.m. Wednesday in the courtroom of U.S. District Judge Roger Vinson. The trial is expected to begin in April.

case. (Miller) has been collecting guns since he was 8 years old, Johnson said.

Instead of ordering the guns taken away, Novotny authorized Beard's office to keep Miller away from the collection he keeps in his Cantonment home.

Beard said agents will go to Miller's house to see how secure the collection is and either take his keys or change the locks.

AFTER THE hearing, Beard downplayed the seriousness of Miller's alleged threats.

"That's nothing. In a case like this you get talk. We are not saying they are serious threats. But as a matter of policy, we can't let this defendant keep firearms," Beard said.

Johnson said the allegations of threats and injunction to keep Miller away from his guns "takes away the presumption of innocence."

See FORMER, 2C

Former landfill director Miller freed from custody without bond

FROM 1C

"That is something that is done in cases involving drugs and violence — this is a far cry from that," Johnson said.

Miller voluntarily turned himself in Monday morning to U.S. marshals under a prearranged agreement.

He was booked at federal court in downtown Pensacola then transported — wearing handcuffs attached to a waist chain — to the SunBank building where Novotny's court has been temporarily relocated.

NO ONE from the U.S. Attorney's office in Tallahassee could be reached Monday to comment on the charges against Miller.

The indictment says Miller discharged "sewage, chemical waste, biological material, solid waste and garbage into streams leading into the Perdido River" — or allowed it to be discharged.

According to a press release issued by that office, Miller faces up to four years in prison and fines of up to \$75,000.

Beard said he could not give specifics concerning the charges.

BEARD SAID Miller could have been charged with one count for every day contaminated groundwater allegedly flowed from landfill property into nearby wetlands without a permit.

That would have been nearly 300 charges on each count. Beard would not say why his office opted for only one charge on each count.

Meanwhile, County Attorney David Tucker said the county is not liable for Miller's actions except to the extent it must correct problems at the landfill.

"He is on trial as an individual," Tucker said, who added that county officials have the option of helping Miller pay for his defense after the trial.



Lawton Chiles
Governor

Florida Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

FAX TRANSMITTAL SHEET

3/14/94
Date

FAXED
0.30
K7-

TO:

JR & JANICE

DEPT.:

HARDC

FAX #:

(813) 773 0958 phone 773 5089

FROM:

Jim

DEPT.: D.E.P., Tampa Office

PHONE: 813-744-6100 or SunCom 542-6100

Ext. 382

FAX(local)744-6125 or (SunCom) 542-6125

SUBJECT:

EXPERIMENTAL CONTINGENCY PLAN

COMMENT:

I CAN REVIEW AND
COMMENT ON YOUR PLAN
WHEN YOU SEND
IT TO ME

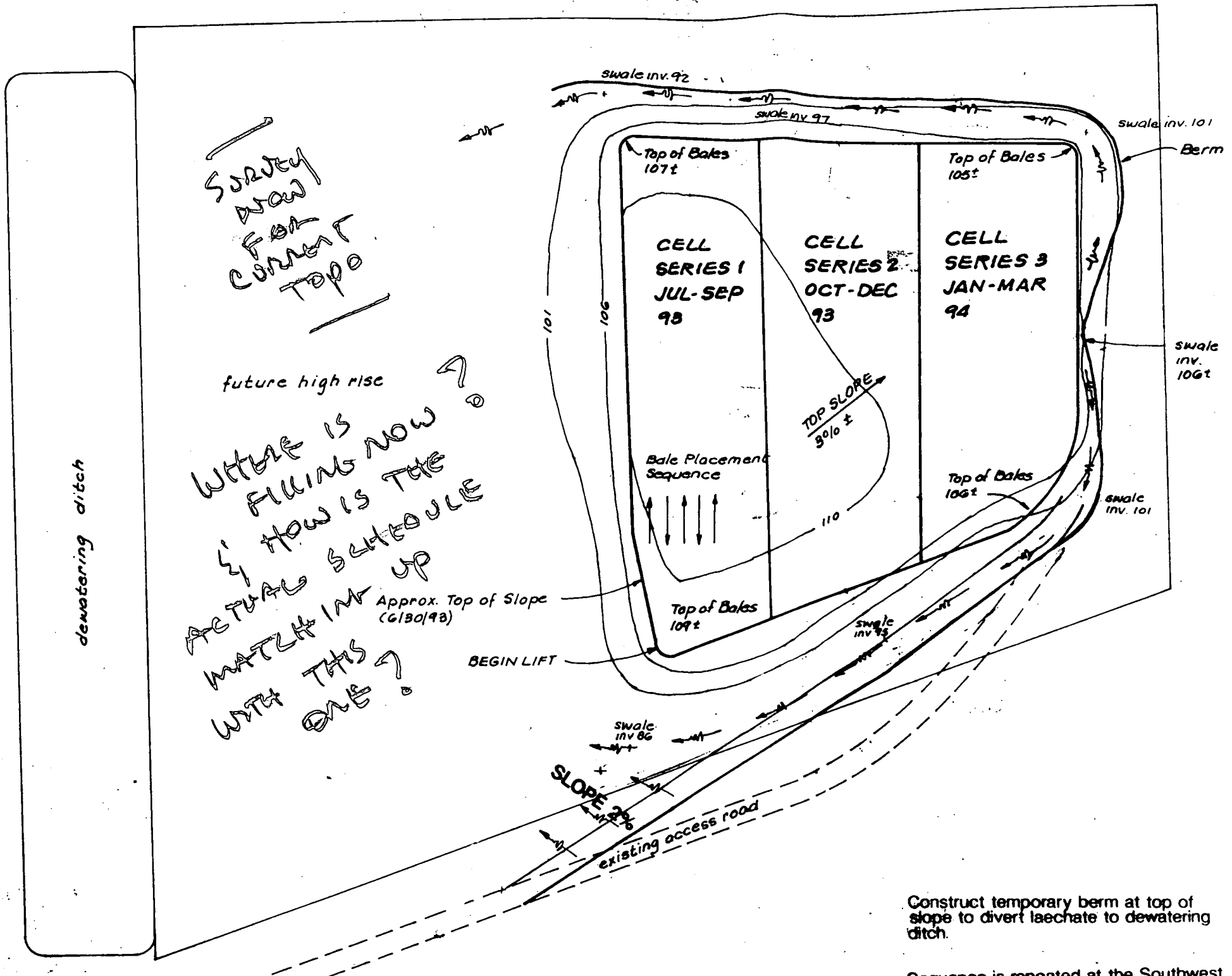
USE FAX 744 6083 FOR NOW - MARK URGENT

TOTAL NUMBER OF PAGES, INCLUDING COVER PAGE:

3

RECEIVED BY: _____

PHONE: _____



Survey draw
FOR
CURRENT
TOPO

future high rise

WHERE IS
FILLING NOW?
HOW IS THE
ACTUAL SCHEDULE
MATCHING UP
WITH THIS
ONE?

dewatering ditch

Approx. Top of Slope
(6/30/93)

BEGIN LIFT

Construct temporary berm at top of
slope to divert leachate to dewatering
ditch.

Sequence is repeated at the Southwest

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
SOUTHWEST DISTRICT
3804 COCONUT PALM DR.
TAMPA, FLORIDA 33619

March 11, 1994

Protecting Florida and Your Quality of Life



~~Handeelt~~



HARDET LF

HARDET LF

**HARDEE COUNTY
BOARD OF COUNTY COMMISSIONERS**

Room A-204, Courthouse Annex
412 West Orange Street
Wauchula, Florida 33873-2867
(813) 773-6952 • (813) 773-9430 • FAX (813) 773-0958

MINOR L. BRYANT
District I

BENNY W. ALBRITTON
District II

TED HITE
District III

ROYCE TYSON, JR.
District IV

WALTER OLLIFF, JR.
District V

GARY ODEN
County Manager

GARY A. VORBECK
County Attorney

FAX TRANSMITTAL

DATE: 3-11-94
TIME:

TO: Bob Butera
O.E.A TAMPA DIST.

FROM:
GARY ODEN
CO. MANAGER
HARDEE COUNTY

COPIES TO:

SUBJECT:
LEACHATE WATER
LAB. ANALYSIS

FAX NUMBER: 6125
813-744-6090

NUMBER OF PAGES:
(Including this sheet)

PLEASE DELIVER THESE PAGES TO THE INDIVIDUAL NAMED ABOVE. IF YOU HAVE ANY DIFFICULTY RECEIVING THIS TRANSMISSION OR IF PAGES ARE MISSING OR ILLEGIBLE, PLEASE CALL 813/773-6952 OR 813/773-9430 AND SPEAK WITH:

* COMMENTS: This is our most recent
* ANALYSIS OF our spray leachate
* water as per your request.
*
*
*
*
*
*
*

"An Equal Opportunity Employer"



Environmental Certification
HRS #E83078

HARDEE COUNTY
74 HANCKY RD.
WAUCHULA, FL 33873
ATT: J. R. PRESTRIDGE

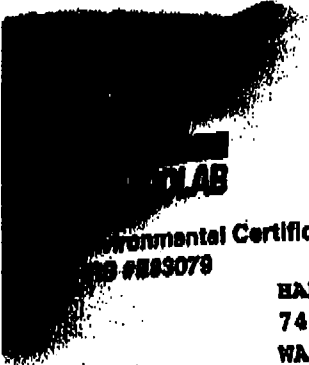
ENVIROLAB
1032 U.S. Highway One, North
P.O. Box 488
Ormond Beach, Florida 32175
(904) 672-8888
Fax (904) 673-4001
Drinking Water Certification
HRS #83160

Submission #: 9402000115
Date Received: 02/09/94
Date Reported: 02/28/94

Client PO Number:
Project Number:
Project: LEACHATE DISP.

Date Sampled: 02/09/94
 Client Sample Number: 1
 Sample Description: LEAC. 4

Method	Component	Units	Result	Analyst	Date Analyzed	Date Prepared
204.2	ANTIMONY	MG/L	<0.003	BB	02/16/94	
208.1	BARIUM	MG/L	<0.05	BB	02/15/94	
210.1	BERYLLIUM	MG/L	<0.005	BB	02/15/94	
220.1	COPPER	MG/L	<0.01	BB	02/14/94	
243.1	MANGANESE	MG/L	0.03	BB	02/14/94	
270.2	SELENIUM	MG/L	<0.002	BB	02/15/94	
272.1	SILVER	MG/L	<0.01	BB	02/16/94	
279.2	THALLIUM	MG/L	<0.001	BB	02/16/94	
289.1	ZINC	MG/L	0.014	BB	02/14/94	
604	CHLORINATED PHENOLS	MG/L	<0.005	FG	02/10/94	
604	TRICHLOROPHENOLS	MG/L	<0.005	FG	02/10/94	
604	CHLORINATED CRESOLS	MG/L	<0.005	FG	02/10/94	
604	2-CHLOROPHENOL	MG/L	<0.005	FG	02/10/94	
604	2,4-DICHLOROPHENOL	MG/L	<0.005	FG	02/10/94	
604	PENTACHLOROPHENOL	MG/L	<0.005	FG	02/10/94	
604	2,4-DINITROPHENOL	MG/L	<0.005	FG	02/10/94	
604	PHENOL	MG/L	<0.005	FG	02/10/94	
608	ALDRIN	MG/L	<0.001	FG	02/10/94	
608	DIELDRIN	MG/L	<0.001	FG	02/10/94	
608	CHLORDANE	MG/L	<0.001	FG	02/10/94	
608	DDT	MG/L	<0.001	FG	02/10/94	
608	ENDOSULFAN	MG/L	<0.001	FG	02/10/94	
608	ENDRIN	MG/L	<0.001	FG	02/10/94	
608	HEPTACHLOR	MG/L	<0.001	FG	02/10/94	
608	LINDANE	MG/L	<0.001	FG	02/10/94	
608	MALATHION	MG/L	<0.005	FG	02/10/94	
608	METHOXYCHLOR	MG/L	<0.001	FG	02/10/94	
608	MIREX	MG/L	<0.001	FG	02/10/94	
608	POLYCHLORINATED BIPHENYL	MG/L	<0.001	FG	02/10/94	
614	DEMETON	MG/L	<0.005	FG	02/10/94	
614	GUTHION	MG/L	<0.005	FG	02/10/94	
614	PARATHION	MG/L	<0.005	FG	02/10/94	



ENVIROLAB

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Fax (904) 673-4001
Drinking Water Certification
HRS #83160

Environmental Certification
#833079

HARDEE COUNTY
74 HANCHEY RD.
WAUCHULA, FL 33873
ATT: J. R. PRESTRIDGE

Submission #: 9402000115
Date Received: 02/09/94
Date Reported: 02/28/94

Client PO Number:
Project Number:
Project: LEACHATE DISP.

Order Number: 46921
Date Sampled: 02/09/94
Client Sample Number:
Sample Description: LEACHATE

manhole
1

Method	Component	Units	Result	Analyst	Date Analyzed	Date Prepared
8260	BENZENE	MG/L	<0.001	FG	02/11/94	
8260	TOLUENE	MG/L	<0.001	FG	02/11/94	
8260	ETHYLBENZENE	MG/L	<0.001	FG	02/11/94	
8260	M-XYLENE	MG/L	<0.001	FG	02/11/94	
8260	P-XYLENE	MG/L	<0.001	FG	02/11/94	
8260	O-XYLENE	MG/L	<0.001	FG	02/11/94	
8260	TOTAL XYLENES	MG/L	<0.001	FG	02/11/94	
8260	TOTAL BTX	MG/L	<0.001	FG	02/11/94	
8260	2-ETHYLTOLUENE	MG/L	<0.001	FG	02/11/94	
8260	3,4-ETHYLTOLUENE	MG/L	<0.001	FG	02/11/94	
8260	TOTAL TOLUENE	MG/L	<0.001	FG	02/11/94	
8260	1,3,5-TRIMETHYLBENZENE	MG/L	<0.001	FG	02/11/94	
8260	1,2,4-TRIMETHYLBENZENE	MG/L	<0.001	FG	02/11/94	
8260	1,2,3-TRIMETHYLBENZENE	MG/L	<0.001	FG	02/11/94	
8260	TOTAL TRIMETHYLBENZENE	MG/L	<0.001	FG	02/11/94	
8260	VINYL CHLORIDE	MG/L	<0.001	FG	02/11/94	
8260	1,1-DICHLOROETHANE	MG/L	<0.001	FG	02/11/94	
8260	TRANS-1,2-DICHLOROETHENE	MG/L	<0.001	FG	02/11/94	
8260	CARBON TETRACHLORIDE	MG/L	<0.001	FG	02/11/94	
8260	TRICHLOROETHENE	MG/L	<0.001	FG	02/11/94	
8260	PERCHLOROETHENE	MG/L	<0.001	FG	02/11/94	
8260	N-PROPYLBENZENE	MG/L	<0.001	FG	02/11/94	
8260	ISOPROPYLBENZENE	MG/L	<0.001	FG	02/11/94	
8260	2-PROPANOL	MG/L	<0.005	FG	02/11/94	
8260	TETRAHYDROFURAN	MG/L	<0.001	FG	02/11/94	
8260	CHLOROBENZENE	MG/L	<0.001	FG	02/11/94	
8260	1,4-DICHLOROBENZENE	MG/L	<0.001	FG	02/11/94	
8260	1,1,1-TRICHLOROETHANE	MG/L	<0.001	FG	02/11/94	



Environmental Certification
HRS #E83079

HARDEE COUNTY
74 HANCHEY RD.
WAUCHULA, FL 33873
ATT: J. R. PRESTRIDGE

ENVIROLAB

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P.O. Box 468
Ormond Beach, Florida 32175
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Fax (904) 673-4001
Drinking Water Certification
HRS #83160

Submission #: 9402000115
Date Received: 02/09/94
Date Reported: 02/28/94

Client PO Number:
Project Number:
Project: LEACHATE DISP.

Page 3

Order Number: 46921
Date Sampled: 02/09/94
Client Sample Number: 1
Sample Description: LEACHATE

Method	Component	Units	Result	Analyst	Date Analyzed	Date Prepared
=====						

QC ACCEPTABLE

[Signature]
R. Sullivan / F. Guzman
President / Vice-President

FEB 28 1994

R.A. ELEFRITZ, SR.



Environmental Certification
HRS #E83079

HARDEE COUNTY
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WAUCHULA, FL 33873
ATT: J. R. PRESTRIDGE

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1032 U.S. Highway One, North
P.O. Box 488
Ormond Beach, Florida 32175
(904) 672-5688
Fax (904) 673-4001
Drinking Water Certification
HRS #B3160

Submission #: 9402000116
Date Received: 02/09/94
Date Reported: 02/28/94

Client PO Number:
Project Number: 4025C30001
Project: HARDEE COUNTY

Page 15

Order Number: 46863
Date Sampled: 02/09/94
Client Sample Number: 8
Sample Description: SPRAY LEACHATE *- ditch*

Method	Component	Units	Result	Analyst	Date Analyzed	Date Prepared
110.2	COLOR	UNITS	40	JB	02/10/94	
120.1	FIELD SPECIFIC CONDUCTANCE	UMHOS/CN	389	PS	02/09/94	
150.1	PH FIELD	UNITS	6.5	PS	02/09/94	
160.1	TOTAL DISSOLVED SOLIDS	MG/L	170	JB	02/14/94	
206.2	ARSENIC	MG/L	<0.001	BB	02/14/94	
213.2	CADMIUM	MG/L	0.0003	BB	02/15/94	
218.2	CHROMIUM	MG/L	<0.001	BB	02/15/94	
236.1	IRON	MG/L	5.8	BB	02/14/94	
239.2	LEAD	MG/L	<0.001	BB	02/15/94	
245.1	MERCURY.	MG/L	<0.0001	JDM	02/11/94	
273.1	SODIUM	MG/L	16	BB	02/10/94	
210.1	BICARBONATE	MG/L	90	SS	02/10/94	
225.3	CHLORIDE	MG/L	28	SS	02/15/94	
250.2	NH4+	MG/L	1.4	RDS	02/14/94	
253.2	NITRATE NITROGEN	MG/L	<0.5	JB	02/11/94	
260.1	DISSOLVED OXYGEN FIELD	MG/L	3.1	PS	02/09/94	
215.1	TOTAL ORGANIC CARBON	MG/L	39	RM	02/12/94	
01	1,1,1-TRICHLOROETHANE	UG/L	<1.0	RM	02/10/94	
01	1,1-DICHLOROETHANE	UG/L	<1.0	RM	02/10/94	
01	1,2-DICHLOROBENZENE	UG/L	<1.0	RM	02/10/94	
01	1,2-DICHLOROPROPANE	UG/L	<1.0	RM	02/10/94	
01	1,4-DICHLOROBENZENE	UG/L	<1.0	RM	02/10/94	
01	BROMOFORM	UG/L	<1.0	RM	02/10/94	
01	CARBON TETRACHLORIDE	UG/L	<1.0	RM	02/10/94	
01	CHLOROETHANE	UG/L	<1.0	RM	02/10/94	
01	CHLOROMETHANE	UG/L	<1.0	RM	02/10/94	
01	DIBROMOCHLOROMETHANE	UG/L	<1.0	RM	02/10/94	
01	METHYLENE CHLORIDE	UG/L	<1.0	RM	02/10/94	
01	TRANS-1,3-DICHLOROPROPENE	UG/L	<1.0	RM	02/10/94	
01	TRICHLOROFLUOROMETHANE	UG/L	<1.0	RM	02/10/94	
01	1,1,2-TRICHLOROETHANE	UG/L	<1.0	RM	02/10/94	
01	1,1-DICHLOROETHENE	UG/L	<1.0	RM	02/10/94	



Environmental Certification
HRS #E83079

HARDEE COUNTY
74 HANCHEY RD.
WAUCHULA, FL 33873
ATT: J. R. PRESTRIDGE

ENVIROLAB

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P.O. Box 488
Ormond Beach, Florida 32175
(904) 672-5688
Fax (904) 673-4001
Drinking Water Certification
HRS #89160

Submission #: 9402000116
Date Received: 02/09/94
Date Reported: 02/28/94

Client PO Number:
Project Number: 4025C30001
Project: HARDEE COUNTY

Order Number: 46863
Date Sampled: 02/09/94
Client Sample Number: 8
Sample Description: SPRAY LEACHATE

Method	Component	Units	Result	Analyst	Date Analyzed	Date Prepared
601	1,2-DICHLOROETHANE	UG/L	<1.0	RM	02/10/94	
601	1,3-DICHLOROBENZENE	UG/L	<1.0	RM	02/10/94	
501	2-CHLOROETHYL VINYL ETHER	UG/L	<20	RM	02/10/94	
501	BROMODICHLOROMETHANE	UG/L	<1.0	RM	02/10/94	
501	BROMOMETHANE	UG/L	<1.0	RM	02/10/94	
501	CHLOROBENZENE	UG/L	<1.0	RM	02/10/94	
501	CHLOROFORM	UG/L	<1.0	RM	02/10/94	
01	CIS-1,3-DICHLOROPROPENE	UG/L	<1.0	RM	02/10/94	
01	TETRACHLOROETHENE	UG/L	<1.0	RM	02/10/94	
01	TRANS-1,2-DICHLOROETHENE	UG/L	<1.0	RM	02/10/94	
01	VINYL CHLORIDE	UG/L	<1.0	RM	02/10/94	
01	DICHLORODIFLUOROMETHANE	UG/L	<1.0	RM	02/10/94	
01	1,1,2,2-TETRACHLOROETHANE	UG/L	<1.0	RM	02/10/94	
01	TRICHLOROETHENE	UG/L	<1.0	RM	02/10/94	
02	1,2-DICHLOROBENZENE	UG/L	<1.0	RM	02/10/94	
2	1,4-DICHLOROBENZENE	UG/L	<1.0	RM	02/10/94	
2	CHLOROBENZENE	UG/L	<1.0	RM	02/10/94	
2	METHYL TERT BUTYL ETHER	UG/L	<1.0	RM	02/10/94	
2	TOTAL XYLENES	UG/L	<1.0	RM	02/10/94	
2	1,3-DICHLOROBENZENE	UG/L	<1.0	RM	02/10/94	
2	BENZENE	UG/L	<1.0	RM	02/10/94	
2	ETHYLBENZENE	UG/L	<1.0	RM	02/10/94	
2	TOLUENE	UG/L	8.8	RM	02/10/94	

Order Number: 47451
Date Sampled: 02/16/94
Client Sample Number: 9
Sample Description: MW-2

Method	Component	Units	Result	Analyst	Date Analyzed	Date Prepared
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HANDED LANDGOL

Jan 11, 1993 Joe Letter

CITES UNAUTHORIZED

DISCLAIMER CONFIRMED BY DATA

July 9, 1993

WASTE-TREAT'S RESPONSE

#5 f.

"THE COUNTY IS ENTERING
NEGOTIATIONS WITH THE CITY OF
WASHITA TO DISPOSE OF LEACHATE
ON A TEMPORARY BASIS AT

THE CITY WWT. AN AGREEMENT
WITH A SEPTIC TANK PUMPING
COMPANY IS BEING PRESSED TO
PROVIDE A TRUCK. NEGOTIATIONS
AND AGREEMENTS ARE ANTICIPATED TO
BE COMPLETE BY EARLY SEPTEMBER.

du

3/10/94

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 3-10-94

Subject Leachate Discharge Options

Time 11:00

Permit No. _____

County Hardee

M JR Prestridge

Telephone No. _____

Representing Hardee Co

Phone Me Was Called Scheduled Meeting Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

They have a build up of leachate in the trench
& would like to discharge by using the
spray irrigation system
Meeting tentatively scheduled for 3/16 w/ Garrity
& Hardee Co. Commissioners

- What params have been tested - tested params
for WTP & leachate Ytly

- Water Quality Monitoring System installed? 2/28 permit
compliance date

All p2's are in
Kim has requested 3 more - not in
Data is showing odd water levels - uncertain
Resurveyed - no errors

(continue on another
sheet, if necessary)

Signature Allison Amram
Title ES3

(over)

Samples collected from manhole + ditch
 (strongest) ^{for leachate monitoring}

no outward gradient yet - getting high. Highest gw elev he's seen

New sprayfield - contract not signed
 1-2 weeks before start of construction
 one month of work

Volume in ditch is high - hauled some to Sebring
 very \$\$

Wachula WWTP - Co. manager has worked out
 an agreement w/ City today. City must ^{approve} agreement
 only a 6 month agreement + an impact fee
 \$150 is reasonable
 150 gpm → ~~8~~ can haul 4 6K loads/8 hrs
 Afraid he can't haul enough. Plant is
 at max. limit ~~for~~ lead

Open Sat - bay waste collection day 7:30^{am} - 5:30^{pm}

Sprayfield not saturated - they have unsaturated
 room to spray

JR thinks he could spray 25K/day w/o
 affecting site groundwater

Sampling parameters - DEP is trying to decide
 which parameters to provide protection

Talked about closing areas of landfill, lining S.
 side of ditch, pumping leachate from manhole
 to WWTP (most conc.) + spraying ditch water

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 3-11-94

Subject _____

Time _____

Permit No. _____

County _____

M Ed Moore Randy Cooper

Telephone No. _____

Representing ~~Asst. Dir.~~

Phone Me Was Called Scheduled Meeting Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

Looking at purchasing hauling truck

Asked JR why they didn't haul in July.

They were under the impression (Wade-Thompson, too) that they could use the sprayfields. When they got Kim's 12/93 letter, they negotiated a contract with WTP in Spring.

*→ For Washula WTP metals (monthly), BOD & CDD ←
DEP's quarterly quality quarterly params will do*

Steve Dutch will come to the meeting

(continue on another sheet, if necessary)

Signature _____

Title _____



Lawton Chiles
Governor

Florida Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

March 4, 1994

J.R. Prestridge, Solid Waste Superintendent
Hardee County
74 Hanchey Road
Wachula, FL 33873-2867

RE: Hardee County Sanitary Landfill
Permit #: SO25-164435

Dear Mr. Prestridge:

As you are aware, Chapter 17-701, Florida Administrative Code was modified, effective 1-2-94, in order to more closely match the Federal Rule, 40 CFR Parts 257 and 258, and hopefully gain State approval from EPA. One of the changes made requires implementation of leachate and groundwater monitoring at all operating landfills.

In compliance with Ch. 17-701.510(1) (a): 1,2,&3, F.A.C. (attached), all operating Class I landfills must submit an application for permit modification by October 9, 1994. No fee is required for this permit modification because the modification is a rule requirement. Please send your modification request to my attention.

If you have any further questions please call me at (813) 744-6100 x336.

Sincerely,

A handwritten signature in cursive script that reads "Allison Amram".

Allison Amram, P.G.
Environmental Specialist
Solid Waste Section

Attachment

cc: Steve Morgan, FDEP



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

D.E.P.

March 3, 1994

MAR 07 1994
SOUTHWEST DISTRICT
TAMPA

Department of Environmental Protections
Attention: Kim B. Ford, P.E.
Solid Waste Section
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Monthly Water Balance/Weekly Groundwater Elevations

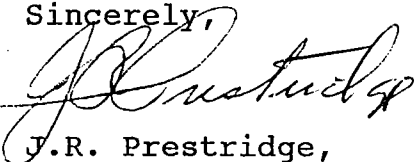
Dear Mr. Ford:

We are submitting for your review, the Monthly Water Balances and the Weekly Groundwater Elevations for the month of February.

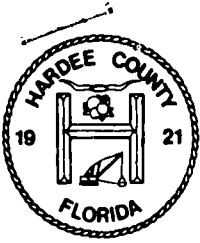
Landfill improvements will begin this week (tentatively on March 4, 1994). We are starting with the underdrain work in the spray field, proceeded by the installation of the pump systems and sprinklers.

Also, enclosed is a copy of the leachate analysis results which were requested by the City of Wauchula. The sample was taken by Envirolab on February 9, 1994. We expect that the City of Wauchula will submit a draft contract before March 10, 1994. You will also find a summary for the cost incurred by the County for leachate hauling and treatment for the month of February.

Sincerely,


J.R. Prestridge,
Solid Waste Superintendent

JRP/jw



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

Page 1 of 2

February 15, 1994

Department of Environmental Protection
Attention: Kim B. Ford, P.E.
Solid Waste Section
3804 Coconut Palm Drive
Tampa, Florida 33619-8318

RECEIVED
FEB 17 1994

Department of Environmental Protection
BY _____
SOUTHWEST DISTRICT

RE: Status Report/Corrective Action Plan

Dear Mr. Ford:

Wade-Trim has completed the design of the spray field and furnished the County with contract documents. At the last scheduled meeting, the Hardee County Board of County Commissioners declared emergency status and in the interest of saving time on the bid process, elected to receive written quotes on various parts of the project.

For now, however; the County has contracted with Short Utility Services of Sebring and J & J Baker Enterprises of Punta Gorda for the hauling and treatment of the Leachate. A copy of their accepted proposals and a summary of the Leachate hauled to date are enclosed.

We are still trying to work on some kind of agreement with the City of Wauchula. They have requested that specific test be ran on the leachate before they will consider a waiver of their ordinance. The test that they requested are currently be done by Envirolab. We are also considering purchasing a tanker truck in efforts to reduce the hauling cost.

Envirolab collected the water samples for the first quarterly sampling under the new parameters specified in the permit on February 10, 1994. The results will be forwarded to you as soon as I receive them.

As of today's date, all water levels are lower inside the liner than outside with the exception of Piezometer no. 3 which reads 82.50 water elevation and monitoring well no. 3 which reads 81.60 water elevation. The top of the side liner adjacent to the spray field on the west side is at a 84.95 elevation and should prevent any migration to the west. In addition, the water elevation in the dewatering ditch is at a 79.19 elevation which should allow us

Page 2 of 2

February 15, 1994

to maintain an inward gradient. Enclosed you will find weekly water elevations taken from the eleven piezometers and the seven monitoring wells and also the water balance from February 1 - 15, 1994.

The following is a Schedule of Implementation of the Spray Field Improvements:

February 12-23 Accept written quotes on the spray field & underdrains.

February 24 Execute contracts for construction

February 24- March 28 Construction of the system which includes:
Spray field
Under drains
Installation of additional piezometers

April 15 Complete Construction

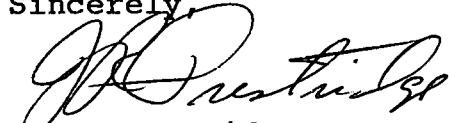
April 18 Inspect and start-up new spray field system

April 18 Relocate Scrap Metal Site
Relocate Waste Tire Site
Construction of the collection ditch
Construction of the Access Road

April 18 - May 27 Finish total project
Inspection and Engineer Approval

July 26 Record Drawings Submitted

Sincerely,



J.R. Prestridge,
Solid Waste Superintendent

jw

SHORT UTILITY SERVICE INC.



HOWARD SHORT, President

P.O. Box 1098

Sebring, Florida 33871-1088

January 20, 1994

Mr. J. R. Prestridge
Solid Waste Department
P.O. Box 246
Wauchula, Fl 33873

Re: Hauling and Treatment of Leachate
Hardee County Landfill

Dear Mr. Prestridge:

Short Utility Service is pleased to offer the following proposal:

30-Day Contract

Minimum of 288,000 gallons. (12,000 gallons per day)

24.15 per 1,000

Hauling .05 per gallon
Treatment .035 per gallon

90-Day Contract

Minimum of 864,000 gallons. (12,000 gallons per day)

Hauling .045 per gallon
Treatment .03 per gallon

6-Month Contract

Minimum of 2,592,000 gallons. (18,000 gallons per day)

Hauling .04 per gallon
Treatment .025 per gallon

1-Year Contract

Minimum of 5,184,000 gallons. (18,000 gallons per day)

Hauling .035 per gallon
Treatment .025 per gallon

2-Year Contract

Minimum of 10,368,000 gallons. (18,000 gallons per day)

Hauling .03 per gallon
Treatment .02 per gallon

Mr. J. R. Prestridge
Page Two

The above quantities are minimum amounts of leachate to be hauled. We will attempt to haul more if there are no plant operation problems or other problems that may occur. The treatment price is based on a BOD of 200 mg/l or less. If the BOD exceeds 200 mg/l, the following formula will be used:

Cost per 1,000 Gallons High Strength Waste	=	$\frac{\text{Actual BOD}}{200 \text{ mg/l}}$	x	Cost per 1,000 gallons Normal Strength leachate Under this Agreement
--	---	--	---	--

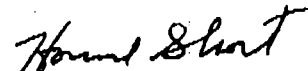
This contract may be cancelled by either party if the Florida Department of Environmental Protection or any other governmental agency having authority over the respective landfill and/or wastewater treatment facility, has determined cannot be properly disposed of in that facility.

The leachate will be hauled to Lake Placid Camp Florida, I.D. No. 5228P00239, Permit No. D028-207230, a .050 MGD plant.

Hauling and treatment can begin immediately upon approval.

Please contact me if additional information is needed.

Sincerely,


Howard Short

HS/cs



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

January 27, 1994

Short Utility Service, Inc.
Attention: Howard Short
P.O. Box 1088
Sebring, FL 33871-1088

RE: Letter of Acceptance

Dear Mr. Short:

We are pleased to accept your quote on the treatment of leachate water generated at the Hardee County Sanitary Landfill.

30-Day Contract

Minimum of 288,000 gallons / Treatment - .035 per gallon

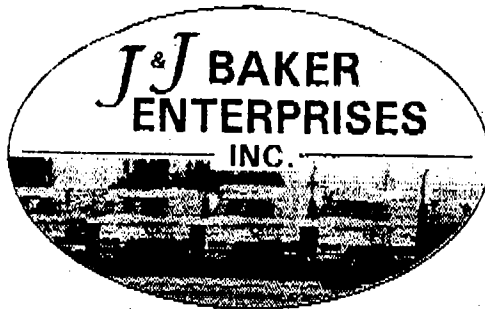
410,000.

We wish to begin hauling the leachate to your facility on January 28, 1994. Please do not hesitate to contact us should you have any questions or comments.

Sincerely,

J.R. Prestridge,
Solid Waste Superintendent
Assistant County Manager

jw



January 27, 1994

PROPOSAL/CONTRACT

Hardee County
Attn: Janice Williamson
Post Office Box 246
Wauchula, Florida 33873

Dear Ms. Williamson:

This proposal/contract is regarding leachate hauling and disposal under the following terms and conditions:

- 1 - Leachate loaded at Hardee County Landfill and hauled to Short Utility Service for disposal will be the Contractor's responsibility as well as conforming to all statutes, regulations and ordinances of the federal and local regulatory agencies and Florida Department of Environmental Protection.
- 2 - The Contractor will furnish all labor, trucks, pumps and hoses to load and unload the leachate.
- 3 - All equipment will be properly licensed, insured and permitted by the Contractor.
- 4 - All employees of the Contractor will be covered by workmans compensation insurance furnished by the Contractor.
- 5 - The Contractor will be responsible for all spills on or off the plant site and any damage to the Owner's premises caused by the Contractor.
- 6 - The Contractor is familiar and experienced with the scope of the work to be performed and therefore proposes to remove and dispose of the leachate for \$24.75 per 1,000 gallons with 6,000 gallons hauled per truckload.
- 7 - If this proposal/contract is accepted the contract would be for a one year period with the contract to be renegotiated by both parties at the end of that time. Should either party wish to cancel this contract, thirty days written notice is required.

\$7,128

CORPORATE OFFICE
P.O. Box 1843
Punta Gorda, Florida 33951-1843
(813) 629-7046 or (813) 575-0606
Fax (813) 575-1685

EAST COAST DIVISION
1288 N.E. Business Park Place, Suite 109
Jensen Beach, Florida 34957
(407) 334-2150
Fax (407) 334-3866

Page Two
January 27, 1994
Hardee County

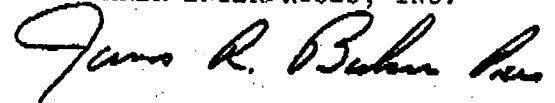
8 - Contractor will invoice Owner for the 1st thru the 15th day of each month and the 16th thru the last day of each month with the net being due in full within 30 days from invoice date.

We are prepared to begin hauling no later than 24 hours from "Notice to Proceed".

Thank you for your interest in our company. If you have any questions, please feel free to contact our office.

Sincerely,

J & J BAKER ENTERPRISES, INC.

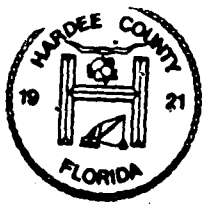


James R. Baker
President

JRB:dh

ACCEPTED:

HARDEE COUNTY
BY: _____
DATE: _____



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

Page 1 of 2

January 27, 1994

J & J Baker Enterprises, Inc.
Attention: James Baker
P.O. Box 1843
Punta Gorda, FL 33951-1843

Dear Mr. Baker:

We are pleased to except your proposal, dated January 27, 1994; for the hauling of leachate from Hardee County Sanitary Landfill to Short Utility Service.

We except the following terms:

1. Leachate loaded at Hardee County Landfill and hauled to Short Utility Services for disposal will be the Contractor's responsibility as well as conforming to all statutes, regulations and ordinances of the federal and local regulatory agencies and Florida Department of Environmental Protection.
2. The Contractor will furnish all labor, trucks, pumps and hoses to load and unload the leachate.
3. All equipment will be properly licensed, insured and permitted by the Contractor.
4. All employees of the Contractor will be covered by workmans compensation insurance furnished by the Contractor.
5. The Contractor will be responsible for all spills on or off the plant site and any damage to the Owner's premises caused by the Contractor.
6. The Contractor is familiar and experienced with the scope of work to be performed and therefore proposes to remove and dispose of the leachate for \$24.75 per 1,000 gallons with 6,000 gallons hauled per truckload.
7. Contract will be on an as-needed basis whereas either party may cancel at any time.

Phone: (813) 773-5089 • FAX: (813) 773-0958

8. Contractor will invoice Owner for the 1st through the 15th day of each month and the 16th through the last day of each month with the net being due in full within 30 days from invoice date.

We look forward to working with J & J Baker Enterprises, Inc. Please feel free to contact us with any questions or comments you may have.

Sincerely,



J.R. Prestridge
Solid Waste Superintendent,
Assistant County Manager

jw

HARDEE COUNTY SANITARY LANDFILL

SUMMARY
HAULING AND TREATMENT OF LEACHATE

HAULED BY: J & J BAKER ENTERPRISES, INC.
P.O. BOX 1843
PUNTA GORDA, FL 33951

TREATMENT BY: SHORT UTILITY SERVICE INC.
P.O. BOX 1088
SEBRING, FL 33871

<u>DATE</u>	<u>AMOUNT IN GALLONS</u>
1/28/94	12,000
1/31/94	24,000
2/01/94	24,000
2/02/94	24,000
2/03/94	24,000
2/04/94	6,000
2/05/94	24,000
2/07/94	12,000
2/08/94	24,000
2/09/94	24,000
2/10/94	24,000
2/11/94	24,000
2/14/94	24,000
<u>2/15/94</u>	<u>24,000</u>

TOTAL TO DATE: 294,000 GALLONS

HAULING COST TO DATE:

294,000 GALLONS X \$24.75 PER 1,000 GALLONS = \$7,276.50

TREATMENT COST TO DATE:

294,000 GALLONS X \$.035 PER GALLON = \$10,290.00

TOTAL COST TO DATE \$17,566.50

NOTE: Water elevation in the dewatering ditch on the day we began hauling was 79.22 (886,692 gallons stored). Elevation at present time is 79.19 (879,286 gallons stored) which shows a decrease of only 7,406 gallons of leachate.



DAILY WATER BALANCE FOR HARDEE COUNTY SANITARY LANDFILL

DATE	AIR TEMP	WIND SPEED M.P.H	HUMIDITY	RAIN FALL INCHES	RAIN FALL GAL.	STAFF GAUGE	GAL. STORED	METER READING	GAL. PUMPED	EVAPORATION RATE	GAL. EVAPORATED	TREATMENT	OTHER
2/01/94	65 F	5	70%	0	0	7.79	904,038	-	0	2.2%	0	24,000	0
2/02/94	62 F	8	67%	.25"	11,063	7.78	901,560	-	0	2.8%	0	24,000	0
2/03/94	71 F	8	63%	0	0	7.74	891,648	-	0	3.0%	0	24,000	0
2/04/94	80 F	7	60%	0	0	7.75	894,126	-	0	3.4%	0	6,000	0
2/05/94												24,000	
2/06/94													
2/07/94	82 F	6	60%	0	0	7.75	894,126	-	0	3.2%	0	12,000	0
2/08/94	83 F	8	55%	0	0	7.78	901,560	-	0	4.3%	0	24,000	0
2/09/94	85 F	7	64%	0	0	7.72	886,692	-	0	3.2%	0	24,000	0
2/10/94	88 F	8	64%	0	0	7.71	884,214	-	0	4.0%	0	24,000	0
2/11/94	75 F	12	78%	0	0	7.73	889,170	-	0	3.5%	0	24,000	0
2/12/94	82 F	11	86%	0	0	7.73	889,170	-	0	3.2%	0	0	0
2/13/94													
2/14/94	86 F	22	50%	0	0	7.78	901,560	-	0	8.2%	0	24,000	0
2/15/94	82 F	5	53%	0	0	7.69	879,286	-	0	3.4%	0	24,000	0
2/16/94													
2/17/94													
2/18/94													
2/19/94													
2/20/94													

TOTAL RAIN FALL IN INCHES .25"
 TOTAL RAIN FALL IN GALLONS 11,063
 TOTAL GALLONS PUMPED THROUGH SPRAY FIELD 0
 TOTAL GALLONS EVAPORATED 0
 TOTAL GALLONS HAULED TO TREATMENT PLANT 258,000

HARDEE COUNTY SANITARY LANDFILL

GROUNDWATER ELEVATIONS

DATE: 2/3/94

RECORDED BY: *J. J. [Signature]*

LOCATION	ELEVATION TOP OF CASING	ELEVATION AT LAND SURFACE	HEIGHT OF CASING ABOVE L.S.	WATER DEPTH FROM TOP OF CASING	GROUNDWATER ELEVATION
MW-1	87.97	86.24	1.73	4.55	83.42
MW-2	85.86	83.68	2.18	5.45	80.41
MW-3	87.75	86.07	1.68	5.55	82.20
MW-4	87.16	84.44	2.72	5.65	81.51
MW-5	88.76	85.76	3.00	8.50	80.26
MW-6	87.94	84.68	3.26	5.90	82.04
MW-7	87.51	84.55	2.96	5.80	81.71
P-1	91.27	88.97	2.30	10.80	80.47
P-2	90.66	87.66	3.00	10.90	79.76
P-3	89.05	86.60	2.45	5.90	83.15
P-4	88.24	85.36	2.88	6.30	81.94
P-5	89.25	86.42	2.83	6.40	82.85
P-6	85.94	83.44	2.50	4.15	81.79
P-7	84.04	81.84	2.20	3.00	81.04
P-8	84.74	82.67	2.08	3.90	80.84
P-9	87.06	84.81	2.25	7.60	79.46
P-10	88.56	86.40	2.16	9.20	79.36
P-11	87.16	85.08	2.08	6.70	80.46

WATER ELEVATION IN THE DEWATERING DITCH: 79.24

HARDEE COUNTY SANITARY LANDFILL

GROUNDWATER ELEVATIONS

DATE: 2/10/94

RECORDED BY: gmic

LOCATION	ELEVATION TOP OF CASING	ELEVATION AT LAND SURFACE	HEIGHT OF CASING ABOVE L.S.	WATER DEPTH FROM TOP OF CASING	GROUNDWATER ELEVATION
MW-1	87.97	86.24	1.73	5.20	82.77
MW-2	85.86	83.68	2.18	6.00	79.86
MW-3	87.75	86.07	1.68	6.00	81.75
MW-4	87.16	84.44	2.72	6.10	81.06
MW-5	88.76	85.76	3.00	8.74	80.02
MW-6	87.94	84.68	3.26	6.37	81.57
MW-7	87.51	84.55	2.96	6.35	81.16
P-1	91.27	88.97	2.30	10.90	80.37
P-2	90.66	87.66	3.00	10.90	79.76
P-3	89.05	86.60	2.45	6.25	82.80
P-4	88.24	85.36	2.88	6.75	81.49
P-5	89.25	86.42	2.83	6.85	82.40
P-6	85.94	83.44	2.50	5.10	80.84
P-7	84.04	81.84	2.20	3.90	80.14
P-8	84.74	82.67	2.08	4.55	80.19
P-9	87.06	84.81	2.25	7.80	79.26
P-10	88.56	86.40	2.16	9.25	79.31
P-11	87.16	85.08	2.08	6.90	80.26

WATER ELEVATION IN THE DEWATERING DITCH:

79.21

HARDEE COUNTY SANITARY LANDFILL

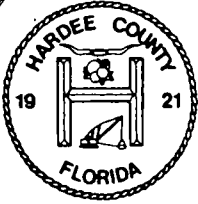
GROUNDWATER ELEVATIONS

DATE: 2/15/94

RECORDED BY: [Signature]

LOCATION	ELEVATION TOP OF CASING	ELEVATION AT LAND SURFACE	HEIGHT OF CASING ABOVE L.S.	WATER DEPTH FROM TOP OF CASING	GROUNDWATER ELEVATION
MW-1	87.97	86.24	1.73	5.55	82.42
MW-2	85.86	83.68	2.18	6.20	79.66
MW-3	87.75	86.07	1.68	6.15	81.60
MW-4	87.16	84.44	2.72	6.30	80.86
MW-5	88.76	85.76	3.00	8.80	79.96
MW-6	87.94	84.68	3.26	6.65	81.29
MW-7	87.51	84.55	2.96	6.60	80.91
P-1	91.27	88.97	2.30	10.90	80.37
P-2	90.66	87.66	3.00	11.00	79.66
P-3	89.05	86.60	2.45	6.55	82.50
P-4	88.24	85.36	2.88	6.95	81.29
P-5	89.25	86.42	2.83	7.10	82.15
P-6	85.94	83.44	2.50	5.30	80.64
P-7	84.04	81.84	2.20	4.30	79.74
P-8	84.74	82.67	2.08	4.85	79.89
P-9	87.06	84.81	2.25	7.65	79.41
P-10	88.56	86.40	2.16	9.30	79.26
P-11	87.16	85.08	2.08	7.10	80.06

WATER ELEVATION IN THE DEWATERING DITCH: 79.19



HARDEE COUNTY
Department of Solid Waste & Recycling Center

P.O. Box 246
Wauchula, Florida 33873

D.E.P.

FEB 10 1994

SOUTHWEST DISTRICT
TAMPA

February 7, 1994

Department of Environmental Protections
Attention: Kim B. Ford, P.E.
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619

RE: Explanation on change of gallons stored.

Dear Mr. Ford:

Enclosed you will find the monthly water balances for January, 1994, please note that changes have been made to the gallons stored. We have also enclosed water level readings taken from the piezometers and the monitoring wells.

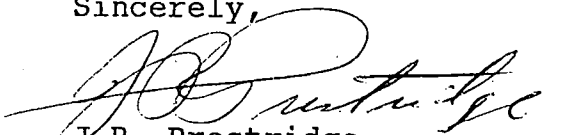
The data that was previously submitted in January on the gallons of water stored in the dewatering ditch is incorrect. The record drawings submitted by Briley Wild and Associates, indicates that the staff gauge was set in the dewatering ditch at a 72.00 elevation; reading 0.00 on the staff gauge. We suspected a problem when the elevation from a piezometer reading next to the ditch was higher than the water elevation in the dewatering ditch.

On January 4, 1994, I called Aim Engineering to survey the gauge for accuracy. The results were that the gauge was off by a half of a foot.

This will be confirmed by Aim Engineering as soon as he completes his paper work on the job. Water level elevations in the ditch on 2/4/94, which were confirmed by a registered, licensed, surveyor, was 79.23 elevation. This accounts for our corrections in the gallons stored.

If you have any questions, please contact us.

Sincerely,


J.R. Prestridge,
Solid Waste Superintendent

P 827 903 196

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3800, June 1985

Sent to <i>J. R. Prestridge</i>	
Street and No. <i>Hardee County</i>	
P.O., State and ZIP Code <i>Dept Solid Waste</i>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date <i>1-28-94</i>	

Fold at line over top of envelope to the right of the return address.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

*J. R. Prestridge
Hardee County
Dept of Solid Waste
P.O. Box 246
Wauchula, FL 33873*

4a. Article Number

P 827 903 196

4b. Service Type

- Registered Insured
- Certified Return Receipt for Merchandise
- Express Mail

7. Date of Delivery

10 FEB 1994

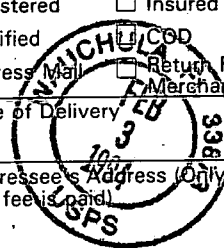
5. Signature (Addressee)

Janice Williams

6. Signature (Agent)

[Signature]

8. Addressee's Address (Only if requested and fee is paid)



Thank you for using Return Receipt Service.

UNITED STATES POSTAL SERVICE



Official Business

D.E.P.

PENALTY FOR PRIVATE
USE TO AVOID PAYMENT
OF POSTAGE, \$300



FEB 07 1994

SOUTHWEST DISTRICT
TAMPA

Print your name, address and ZIP Code here

Kim Ford

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
3804 COCONUT PALM DR.
TAMPA, FLORIDA 33619



Lawton Chiles
Governor

Florida Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

January 27, 1994

Mr. J. R. Prestridge
Hardee County
Department of Solid Waste
Post Office Box 246
Wauchula, FL 33873

Re: Daily Water Balance and Emergency Spraying
Hardee County Landfill
Permit #S025-214306

Dear Mr. Prestridge:

Based on a review of the groundwater elevations received by fax from your office on January 21 and 24, 1994, an outward gradient exists across the sprayfield. Records provided show continued spraying of up to 64,680 gallons of leachate daily until January 6, 1994. The current mounding and outward gradient appear to be the result of that spraying and excessive leachate impounded in the dewatering ditch. Although the mound is residing, continued use of the sprayfield for high volume leachate disposal is not prudent. Since the dewatering ditch is full, there is little hope of obtaining an inward gradient. The Department strongly suggests immediate leachate removal to an off-site WWTP to avoid unauthorized discharge of leachate from the landfill.

An inward gradient must exist for the Department to consider approval of the sprayfield for emergency use. On January 24, 1994, I spoke with Ms. Janice Williamson of your staff and explained the requirements for approval as follows:

1. Groundwater elevations are required weekly from all wells and piezometers.
2. All information specified as part of specific condition #17 is required daily, and submitted weekly.
3. Groundwater mounding with an outward gradient is not allowed.
4. The proposed request for emergency spraying shall be submitted with the \$500 processing fee, and the request shall be signed and sealed by a professional engineer.


Mr. J. R. Prestridge
Hardee County
Department of Solid Waste

January 27, 1994
Page Two

In conclusion, records for spraying for June 30 - December 1, 1993 as requested in DEP's January 7, 1994 have not been provided. An outward gradient exists between the dewatering ditch and creek. The leachate in the dewatering ditch for the landfill appears to be within one foot of the groundwater elevation outside the western perimeter of the landfill. Excessive leachate impounded in the dewatering ditch may soon cause an outward gradient along the western perimeter. Please submit by February 20, 1994, updated data through February 15, 1994 to verify that an outward gradient does not exist along the western perimeter of the landfill, and provide a plan and schedule for corrective measures for the sprayfield. Continued unauthorized discharge of leachate by means of an outward gradient shall subject Hardee County to enforcement action.

If you have any questions, you may call me at (813) 744-6100, extension 382.

Sincerely,



Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

KBF/ab

cc: Hardee County Board of County Commissioners
Janice Williamson, Hardee County
William Kutash, FDEP Tampa
Bob Butera, P.E., FDEP Tampa
Steve Morgan, FDEP Tampa
Allison Amram, P.G., FDEP Tampa



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

January 24, 1994

Department of Environmental Protection
Kim B. Ford, P.E.
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

D.E.P.

JAN 27 1994

SOUTHWEST DISTRICT
TAMPA

Dear Mr. Ford:

To confirm our phone conversation on January 21, 1994, Hardee County Sanitary Landfill would like the approval of the second proposed temporary modification to the spray field which was submitted by fax on January 21, 1994. If we are allowed to relocate the six (6) sprinklers, as indicated on the plans, we would in turn submit piezometer readings to your department on the days that we spray. This would allow you to closely monitor the water levels at the time of spraying.

Although the temporary proposal will allow for only a small amount of evaporation, we feel that it is crucial at this point. Furthermore, we are still working diligently to secure an agreement with a waste water treatment facility. An emergency meeting with the City of Wauchula will be scheduled in hopes that some agreement will be made. We are also looking into prospective treatment facilities in Highlands County. We will keep you up to date on this issue.

Should you have any questions or comments please contact us as soon as possible.

Sincerely,

J.R. Prestridge,
Solid Waste Superintendent
Assistant County Manager

jw

cc: Wade-Trim Engineering, Steve Dutch, P.E.

HARDEE COUNTY
BOARD OF COUNTY COMMISSIONERS
 Room A-204, Courthouse Annex
 412 West Orange Street
 Wauchula, Florida 33873-2867
 (813) 773-6952 • (813) 773-9430 • FAX (813) 773-0958

- MINOR L. BRYANT
District I
- BENNY W. ALBRITTON
District II
- TED HITE
District III
- ROYCE TYSON, JR.
District IV
- WALTER OLLIFF, JR.
District V
- GARY ODEN
County Manager
- GARY A. VORBECK
County Attorney

FAX TRANSMITTAL

DATE: 1/24/94
TIME: 3:55 p.m.

TO: DCP Kim Ford, P.E. Solid Waste Section	FROM: Hardee County J. R. Prestridge
COPIES TO:	SUBJECT: Water Level Readings
FAX NUMBER: 744-6125	NUMBER OF PAGES: 4 (Including this sheet)

PLEASE DELIVER THESE PAGES TO THE INDIVIDUAL NAMED ABOVE. IF YOU HAVE ANY DIFFICULTY RECEIVING THIS TRANSMISSION OR IF DATED AND WITHOUT ** RELEASED, PLEASE CALL 813/773-6952 OR 813/773-9430 AND SPEAK WITH: *Jamie*

before
~~5:00 p.m.~~ 1/24/94 1/25/94 773-5089

 * COMMENTS:
 *
 *
 *
 *
 *
 *
 *

HARDEE COUNTY SANITARY LANDFILL

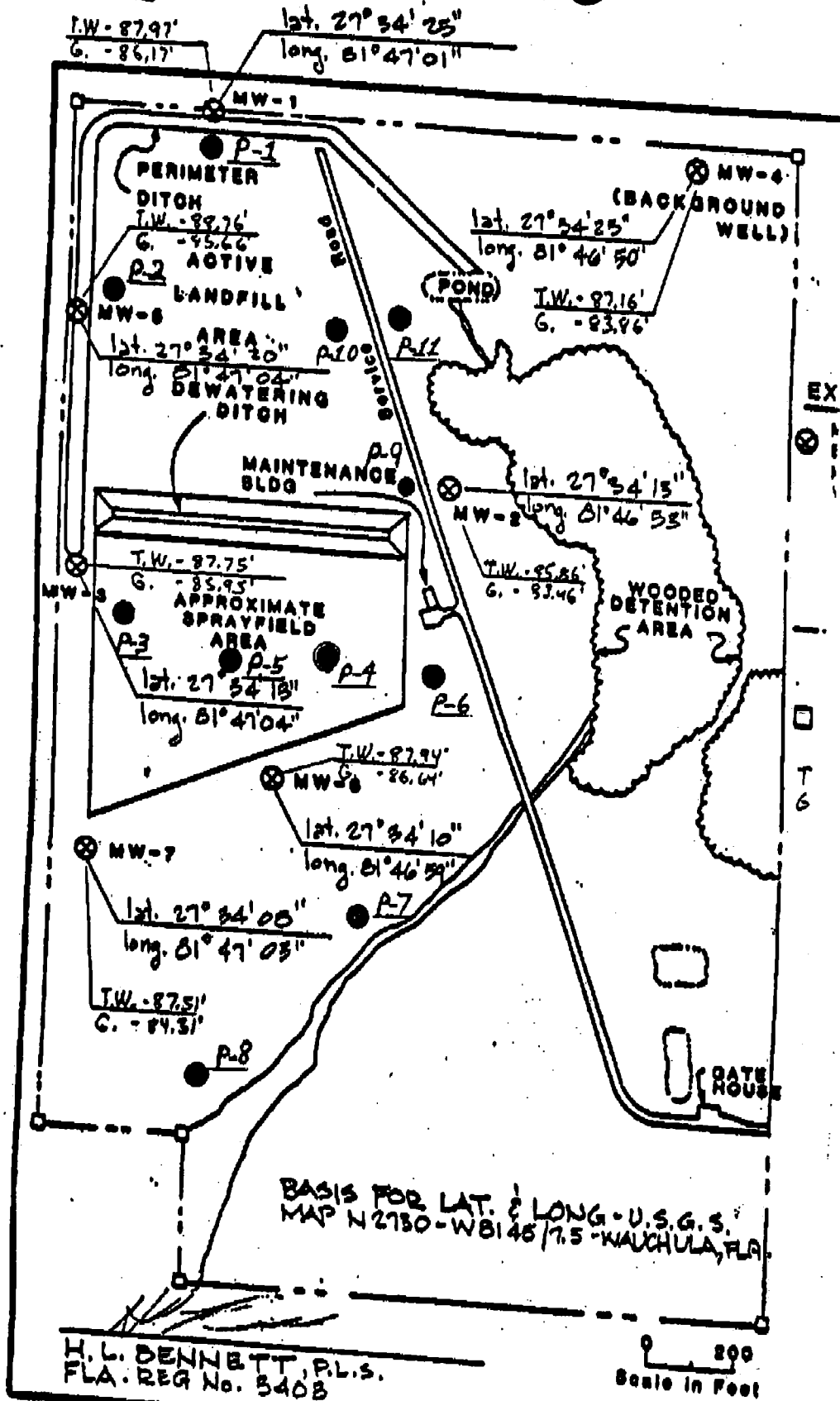
GROUNDWATER ELEVATIONS

DATE: 1/24/94READINGS TAKEN BY: Joseph S. Hunter

LOCATION	ELEVATION TOP OF CASING	ELEVATION AT LAND SURFACE	HEIGHT OF CASING ABOVE L.S.	WATER DEPTH FROM TOP OF CASING	GROUNDWATER ELEVATION
MW-1	87.97	86.24	1.73	4.65	83.32
MW-2	85.86	83.68	2.18	5.50	80.36
MW-3	87.75	86.07	1.68	5.50	82.25
MW-4	87.16	84.44	2.72	5.75	81.41
MW-5	88.76	85.76	3.00	8.70	80.06
MW-6	87.94	84.68	3.26	5.80	82.14
MW-7	87.51	84.55	2.96	5.70	81.81
P-1	91.27	88.97	2.30	10.85	80.42
P-2	90.66	87.66	3.00	11.00	79.66
P-3	89.05	86.60	2.45	5.60	83.45
P-4	88.24	85.36	2.88	6.20	82.04
P-5	89.25	86.42	2.83	6.05	83.20
P-6	85.94	83.44	2.50	4.40	81.54
P-7	84.04	81.84	2.20	3.05	80.99
P-8	84.74	82.67	2.08	3.90	80.84
P-9	87.06	84.81	2.25	7.95	79.11
P-10	88.56	86.40	2.16	9.35	79.21
P-11	87.16	85.08	2.08	6.75	80.41

WATER ELEVATION IN THE DEWATERING DITCH:

79.50



MONITOR WELL LOCATION
 REGIONAL SANITARY LANDFILL, HARDEE

HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

Room A-204, Courthouse Annex
412 West Orange Street
Wauchula, Florida 33873-2867
(813) 773-6952 • (813) 773-9430 • FAX (813) 773-0958

- MINOR L. BRYANT
District I
- BENNY W. ALBRITTON
District II
- TED HITE
District III
- ROYCE TYSON, JR.
District IV
- WALTER OLLIFF, JR.
District V
- GARY ODEN
County Manager
- GARY A. VORBECK
County Attorney

FAX TRANSMITTAL

DATE: 1/24/93
TIME: 10:00 a.m.

TO: DEP
Kim Ford, P.E.
Solid Waste Section

COPIES TO:
Wade-Trim
Engineering

FAX NUMBER:
813-744-6090

FROM: Hardee County
Landfill
J.R. Presteidge

SUBJECT:
Spray Field

NUMBER OF PAGES: 2
(Including this sheet)

PLEASE DELIVER THESE PAGES TO THE INDIVIDUAL NAMED ABOVE. IF YOU HAVE ANY DIFFICULTY RECEIVING THIS TRANSMISSION OR IF PAGES ARE MISSING OR ILLEGIBLE, PLEASE CALL 813/773-6952 OR 813/773-9430 AND SPEAK WITH:

773-5089

Janice

* COMMENTS: *

* *

* *

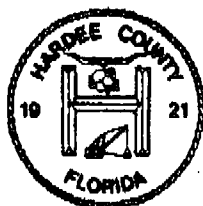
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"An Equal Opportunity Employer"



HARDEE COUNTY
Department of Solid Waste & Recycling Center

P.O. Box 246
Wauchula, Florida 33873

January 24, 1994

Department of Environmental Protection
Kim B. Ford, P.E.
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

Dear Mr. Ford:

To confirm our phone conversation on January 21, 1994, Hardee County Sanitary Landfill would like the approval of the second proposed temporary modification to the spray field which was submitted by fax on January 21, 1994. If we are allowed to relocate the six (6) sprinklers, as indicated on the plans, we would in turn submit piezometer readings to your department on the days that we spray. This would allow you to closely monitor the water levels at the time of spraying.

Although the temporary proposal will allow for only a small amount of evaporation, we feel that it is crucial at this point. Furthermore, we are still working diligently to secure an agreement with a waste water treatment facility. An emergency meeting with the City of Wauchula will be scheduled in hopes that some agreement will be made. We are also looking into prospective treatment facilities in Highlands County. We will keep you up to date on this issue.

Should you have any questions or comments please contact us as soon as possible.

Sincerely,

A handwritten signature in cursive script, appearing to read "J.R. Prestridge".

J.R. Prestridge,
Solid Waste Superintendent
Assistant County Manager

jw

cc: Wade-Trim Engineering, Steve Dutch, P.E.



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

D.E.P.

JAN 24 1994

SOUTHWEST DISTRICT
TAMPA

Department of Environmental Protections
Kim B. Ford, P.E.
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

January 20, 1994

Dear Mr. Ford:

After receiving your letter dated January 7, 1994, we have ceased operation of our spray irrigation system. As you are aware, this could present a problem with keeping the desired water elevations inside the landfill liner so as to maintain an inward gradient.

I am submitting to you the piezometer readings which were taken on January 18, 1994 for your review. As shown by these readings, we are presently maintaining an inward gradient.

We are also submitting our second proposed temporary modification to the spray system. We would like to relocate half of our sprinklers as shown on enclosed site plan. All water sprayed would be sprayed with 75 feet of the dewatering ditch. There should be no question that all water sprayed in this area would return to the ditch. We wish to spray six (6) sprinklers for ten (10) hours per day, six (6) days per week. This would allow us to evaporate approximately 2,772 gallons of water per day, depending on the weather conditions.

We are working diligently, to secure an agreement with a waste water treatment facility. There are problems in doing this, one of which is the cost of long distance transportation of the water. However, we feel that approval of the temporary modification to the spray field is crucial at this point in time.

Please respond as soon as possible.

Thank You,

J.R. Prestridge,
Solid Waste Superintendent

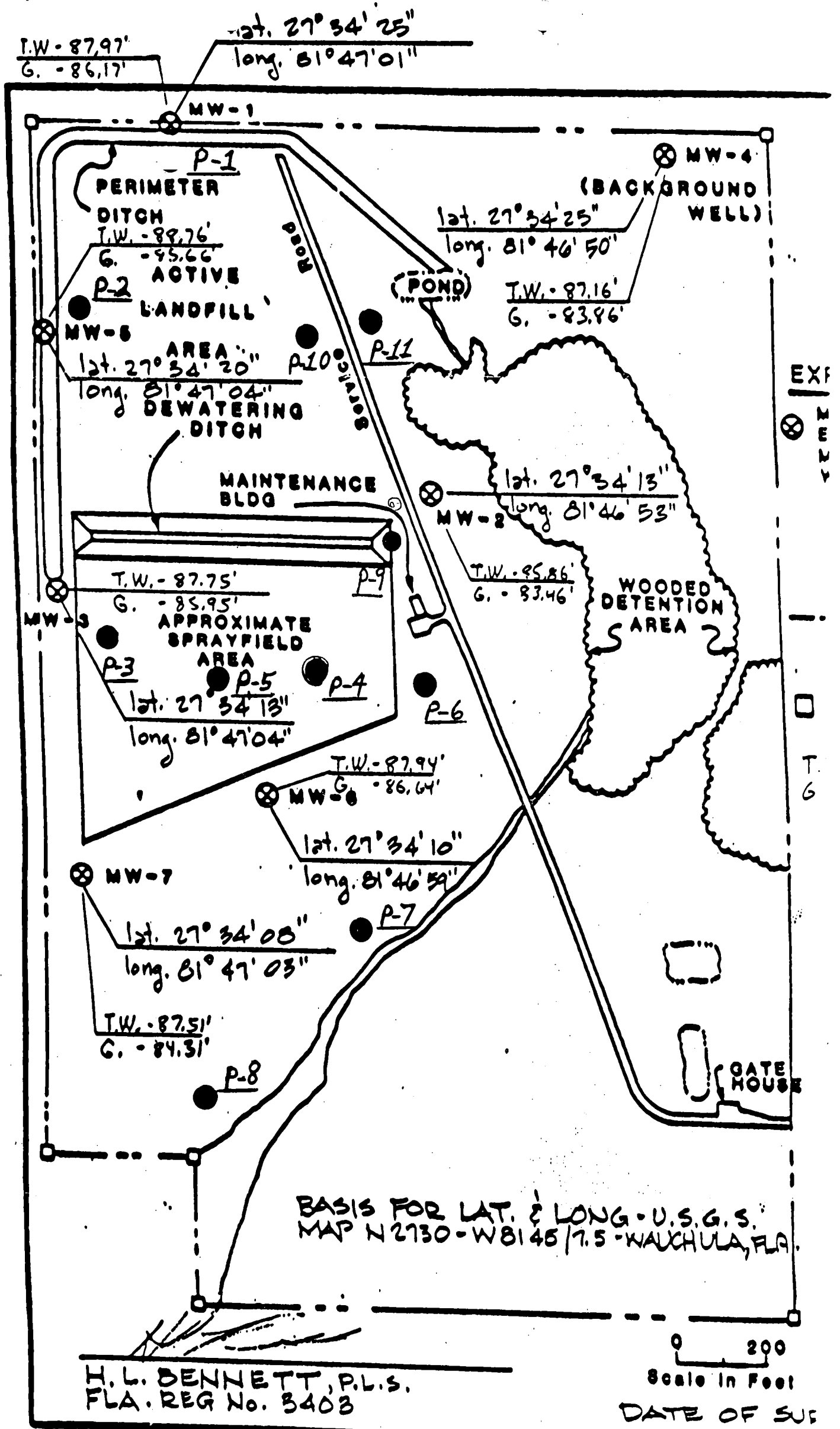
HARDEE COUNTY SANITARY LANDFILL

PIEZOMETER READINGS

DATE:

01/18/94

<u>PIEZOMETER NUMBER</u>	<u>READING</u>	<u>ELEVATION</u>
1	10' 10 1/2"	80.40
2	11' 2"	79.49
3	4' 5/8"	84.98
4	4 11 3/4"	83.26
5	5' 1/2"	84.21
6	3' 3/4"	82.86
7	2' 4"	81.71
8	2' 8 1/2"	82.02
9	8' 4 1/2"	82.69
10	9' 9"	78.82
11	6' 10"	80.32



H. L. BENNETT, P.L.S.
 FLA. REG No. 3403

0 200
 Scale in Feet
 DATE OF SURV

MONITOR WELL LOCATION
 REGIONAL SANITARY LANDFILL, HARDEE

SIDE WALL EXTENSION

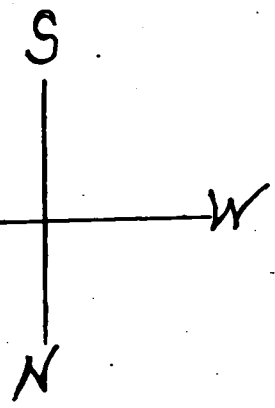
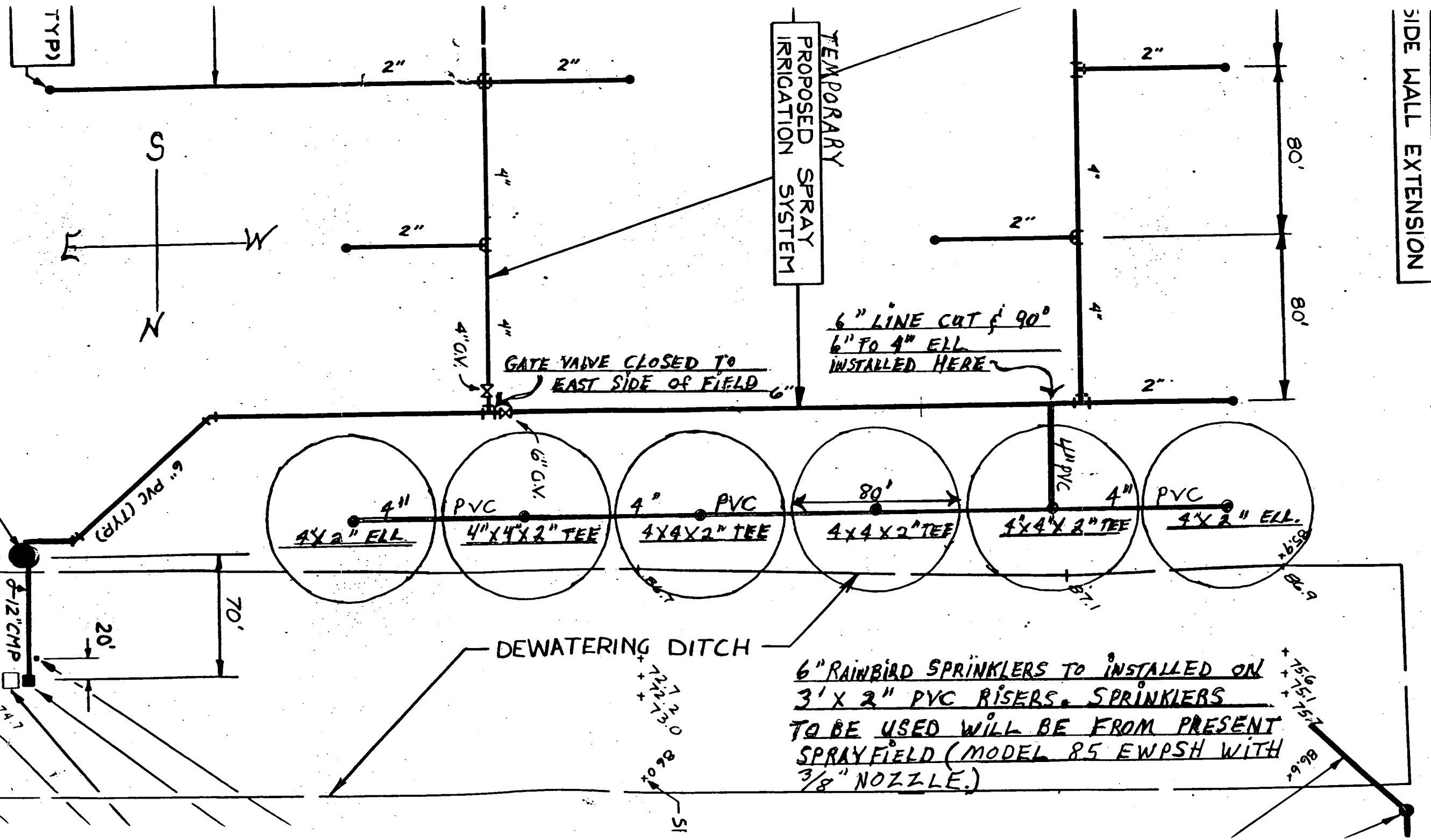
TEMPORARY PROPOSED SPRAY IRRIGATION SYSTEM

6" LINE CUT & 90°
6" TO 4" ELL
INSTALLED HERE

GATE VALVE CLOSED TO EAST SIDE OF FIELD

6" RAINBIRD SPRINKLERS TO BE INSTALLED ON 3' X 2" PVC RISERS. SPRINKLERS TO BE USED WILL BE FROM PRESENT SPRAY FIELD (MODEL 85 EWPSH WITH 3/8" NOZZLE.)

DEWATERING DITCH



TYP

8-1/2" CMP

70'

20'

80'

80'

80'

86.6'

86.6'

86.6'

SI

HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

Room A-204, Courthouse Annex
412 West Orange Street
Wauchula, Florida 33873-2867
(813) 773-6952 • (813) 773-9430 • FAX (813) 773-0958

MINOR L. BRYANT
District I

BENNY W. ALBRITTON
District II

TED HITE
District III

ROYCE TYSON, JR.
District IV

WALTER OLLIFF, JR.
District V

GARY ODEN
County Manager

GARY A. VORBECK
County Attorney

FAX TRANSMITTAL

DATE: 10/21/94
TIME: 8:00a m.

TO: DCP
Kim Ford, P.E.

FROM: Hardee County
J.A. Prestridge,
S.W. Superintendant

COPIES TO:
Wade-Trim
Steve Dutch

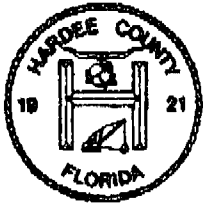
SUBJECT:
Spray Field

FAX NUMBER:
813-744-6090

NUMBER OF PAGES: 5
(Including this sheet)

PLEASE DELIVER THESE PAGES TO THE INDIVIDUAL NAMED ABOVE. IF YOU HAVE ANY DIFFICULTY RECEIVING THIS TRANSMISSION OR IF PAGES ARE MISSING OR ILLEGIBLE, PLEASE CALL 813/773-6952 OR 813/773-9430 AND SPEAK WITH:

* COMMENTS:
*
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*



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

Department of Environmental Protections
Kim B. Ford, P.E.
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

January 20, 1994

Dear Mr. Ford:

After receiving your letter dated January 7, 1994, we have ceased operation of our spray irrigation system. As you are aware, this could present a problem with keeping the desired water elevations inside the landfill liner so as to maintain an inward gradient.

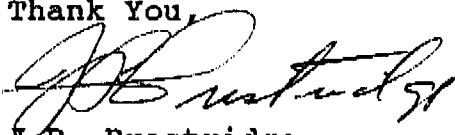
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Please respond as soon as possible.

Thank You,


J.R. Prestridge,
Solid Waste Superintendent

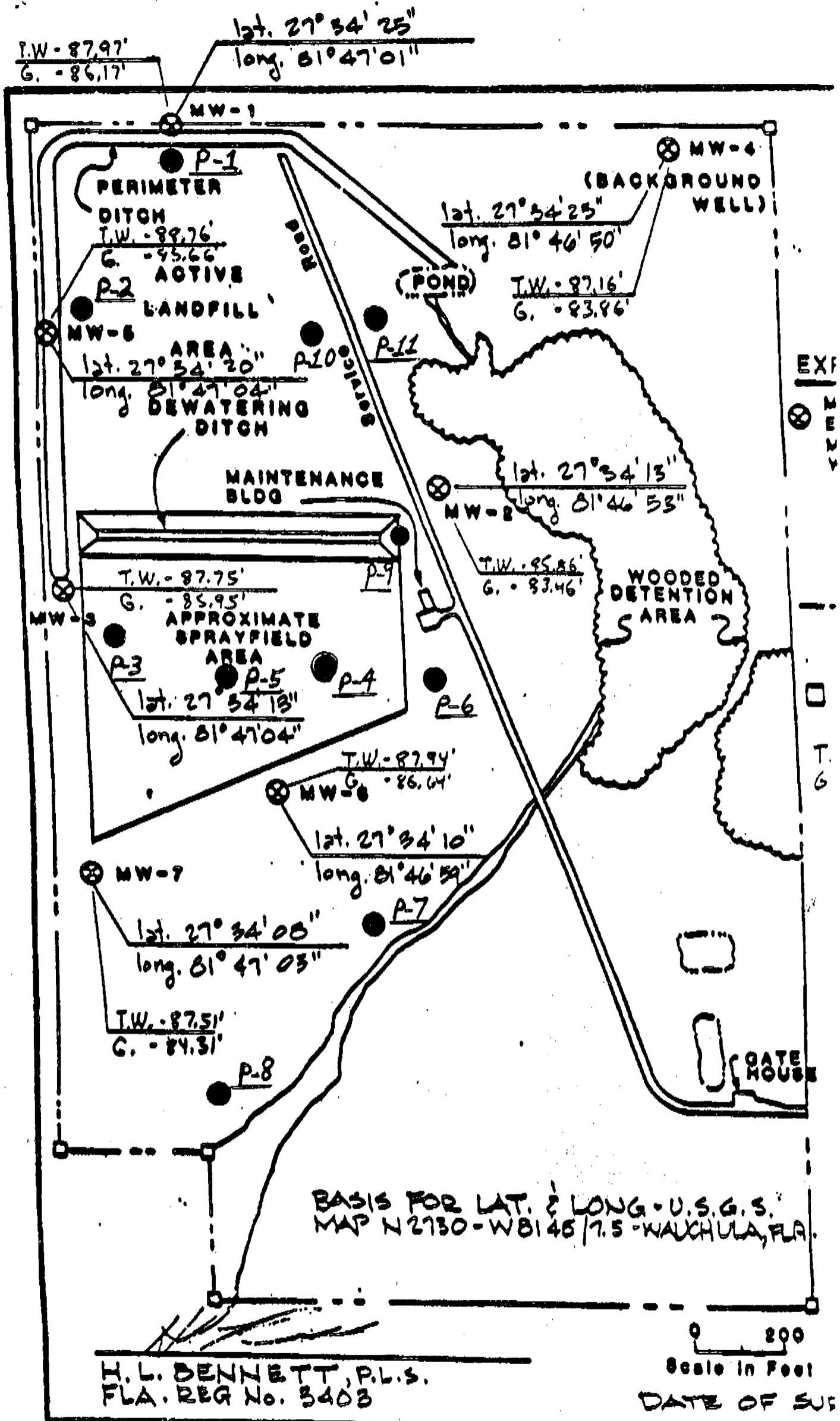
HARDEE COUNTY SANITARY LANDFILL

PIEZOMETER READINGS

DATE:

01/18/94

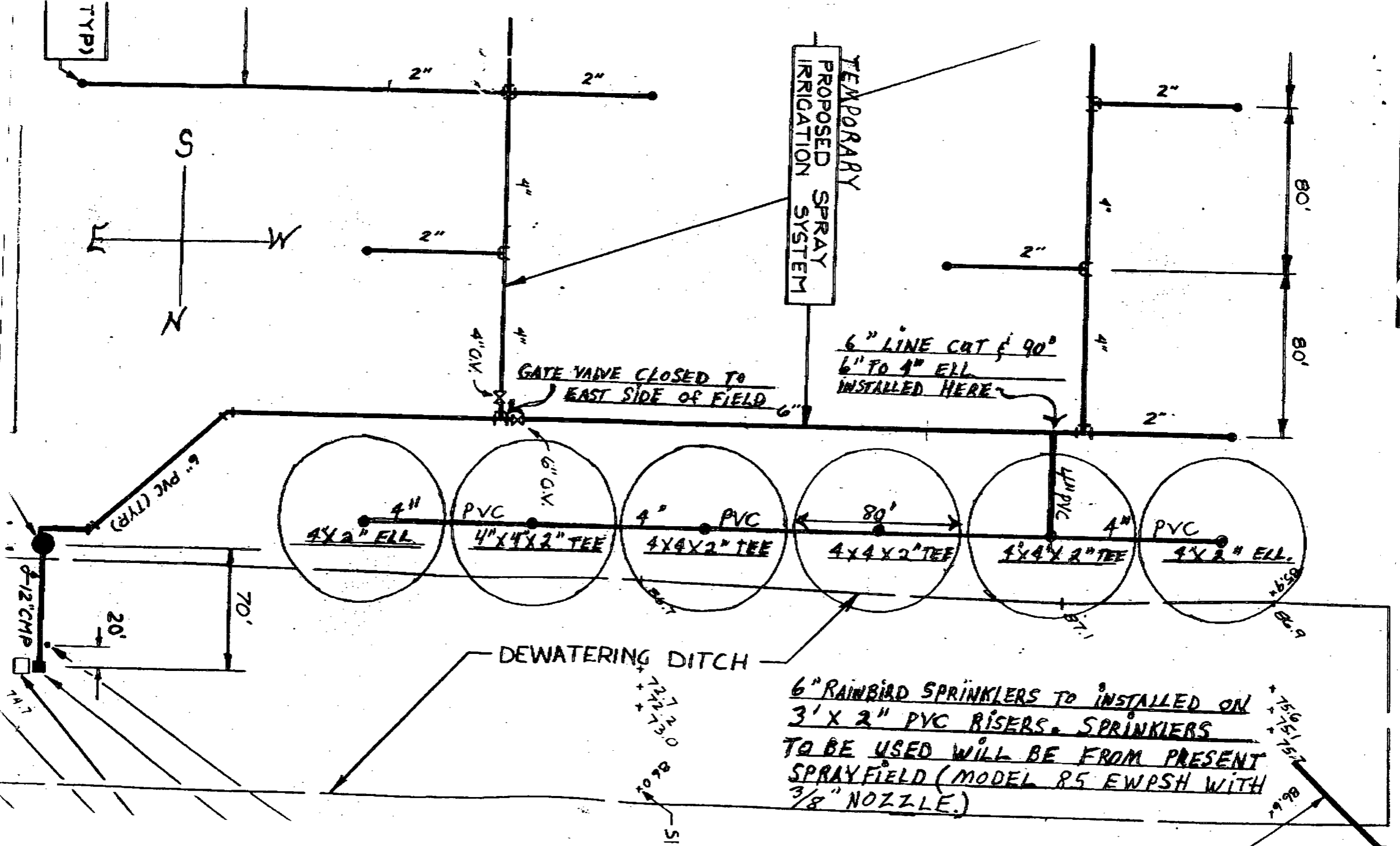
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10	9' 9"	78.82
11	6' 10"	80.32



H. L. BENNETT, P.L.S.
 FLA. REG No. 3403

DATE OF SURVEY

**MONITOR WELL LOCATION
 REGIONAL SANITARY LANDFILL, HARDEE**



SIDE WALL EXTENS' N

HARDEE COUNTY
BOARD OF COUNTY COMMISSIONERS

Room A-204, Courthouse Annex
412 West Orange Street
Wauchula, Florida 33873-2867
(813) 773-6952 • (813) 773-9430 • FAX (813) 773-0958

RECEIVED
JAN 24 1994

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

MINOR L. BRYANT
District I

BENNY W. ALBRITTON
District II

TED HITE
District III

ROYCE TYSON, JR.
District IV

WALTER OLLIFF, JR.
District V

GARY ODEN
County Manager

GARY A. VORBECK
County Attorney

FAX TRANSMITTAL

DATE: 1/19/94
TIME:

TO: DEP
Kim Ford, P.E.
Solid Waste
Section

COPIES TO:
Wade-Trim
Engineering

FAX NUMBER:
744-6090

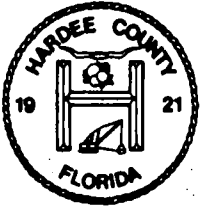
FROM: Hardee County
Landfill
J.R. Prestridge

SUBJECT:
Daily Water Balances

NUMBER OF PAGES: 5
(Including this sheet)

PLEASE DELIVER THESE PAGES TO THE INDIVIDUAL NAMED ABOVE. IF YOU HAVE ANY DIFFICULTY RECEIVING THIS TRANSMISSION OR IF PAGES ARE MISSING OR ILLEGIBLE, PLEASE CALL 813/773-6952 OR 813/773-9430 AND SPEAK WITH: Janice

* COMMENTS:
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*



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

Page 1 of 2

January 19, 1994

Department of Environmental Protection
Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Daily Water Balance January 1-16, 1994
Proposed, Temporary Spray System
Hardee County Sanitary Landfill
Permit #S025-214306

Dear Mr. Ford:

As per your request on January 7, 1994, we are submitting the updated data on the Daily Water Balances from January 1-16, 1994.

According to your letter we may propose a temporary spray evaporation method. We propose to cap the three (3) farthest sprinklers from the collection ditch on each of the spray zones. This would leave six (6) sprinklers operational within 275 feet of the collection ditch.

We would propose to operate the system for a maximum 8 hours per day. Each sprinkler will spray 30.8 gallons of water per minute; which is based on 60 pounds of pressure per square inch with a nozzle size of 24/64 inches. This would spray approximately 11,088 gallons per hour; 88,704 gallons per day with an average evaporation of 2,218 gallons per day depending on weather conditions.

We are on the Wauchula City Council Meeting, scheduled for February 14, 1994, 6:30 p.m. to ask for a waiver of their ordinance which prohibits them from accepting our leachate at their waste water treatment plant. We will also ask that they waive the \$25,000 impact fee. We hope that we will leave this meeting with some type of agreement.

The cities of Bowling Green and Zolfo Springs are both currently

Phone: (813) 773-5089 • FAX: (813) 773-0958

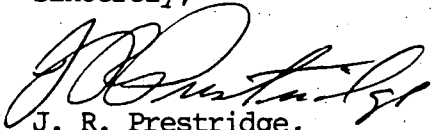
Page 2 of 2

under consent order and are unable, at this time, to accept our leachate water. However, City of Bowling Green, City Manager said that he would entertain the idea once the improvements to their plant had been made.

Just to update you on the progress of the landfill improvements to be made, the contract documents and specification have been developed and we are presently in the process of advertising for a contractor.

Please respond to our request for temporary modification of the spray system as soon as possible. If you should have any questions please do not hesitate to contact us.

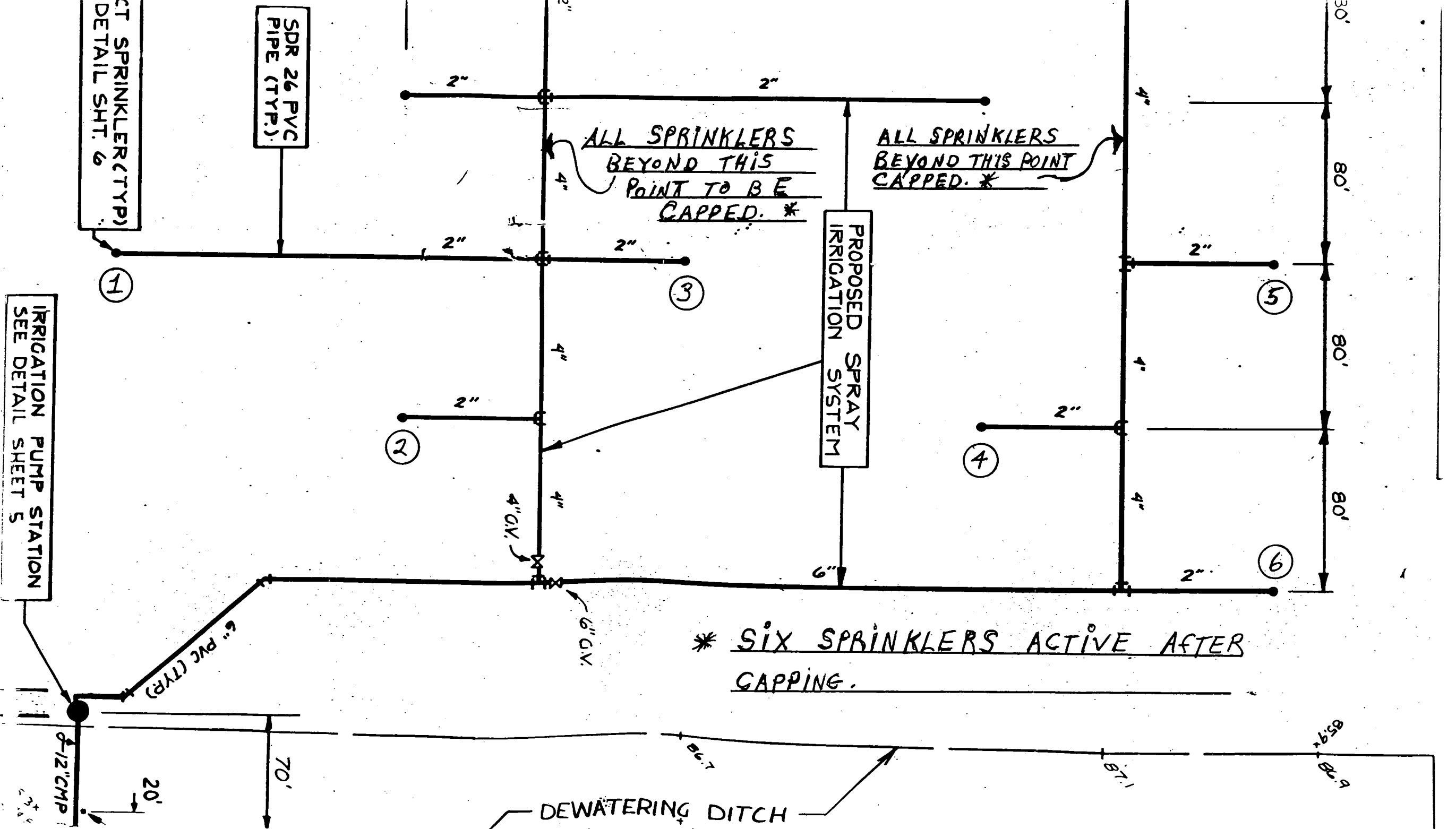
Sincerely,



J. R. Prestridge,
Solid Waste Superintendent
Assistant County Manager

jw

cc: Kim Ford, DEP
Wade-Trim Engineering



CT SPRINKLER (TYP)
DETAIL SHT. 6

SDR 26 PVC
PIPE (TYP.)

IRRIGATION PUMP STATION
SEE DETAIL SHEET 5

PROPOSED
SPRAY
IRRIGATION
SYSTEM

ALL SPRINKLERS
BEYOND THIS
POINT TO BE
CAPPED. *

ALL SPRINKLERS
BEYOND THIS POINT
CAPPED. *

* SIX SPRINKLERS ACTIVE AFTER
CAPPING.

DEWATERING DITCH

85.9'
8.7'

30'
80'
80'
80'

70'

20'

1/2" CMP

6" PVC (TYP)

6" G.V.

4" G.V.

6"

2"

4"

2"

4"

2"

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2"

HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

Room A-204, Courthouse Annex
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Wauchula, Florida 33873-2867
(813) 773-6952 • (813) 773-9430 • FAX (813) 773-0958

MINOR L. BRYANT
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County Manager

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County Attorney

FAX TRANSMITTAL

DATE: 1/19/94
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TO: DEP
Kim Ford, P.E.
Solid Waste
Section

COPIES TO:
Wade-Trim
Engineering

FAX NUMBER:
744-6090

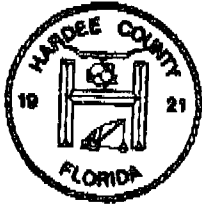
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Landfill
J.R. Prestridge

SUBJECT:
Daily Water Balances

NUMBER OF PAGES: 5
(Including this sheet)

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* COMMENTS:
*
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*



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

Page 1 of 2

January 19, 1994

Department of Environmental Protection
Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Daily Water Balance January 1-16, 1994
Proposed, Temporary Spray System
Hardee County Sanitary Landfill
Permit #SO25-214306

Dear Mr. Ford:

As per your request on January 7, 1994, we are submitting the updated data on the Daily Water Balances from January 1-16, 1994.

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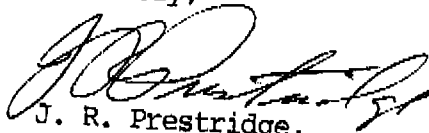
Page 2 of 2

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Sincerely,


J. R. Prestridge,
Solid Waste Superintendent
Assistant County Manager

jw

cc: Kim Ford, DEP
Wade-Trim Engineering

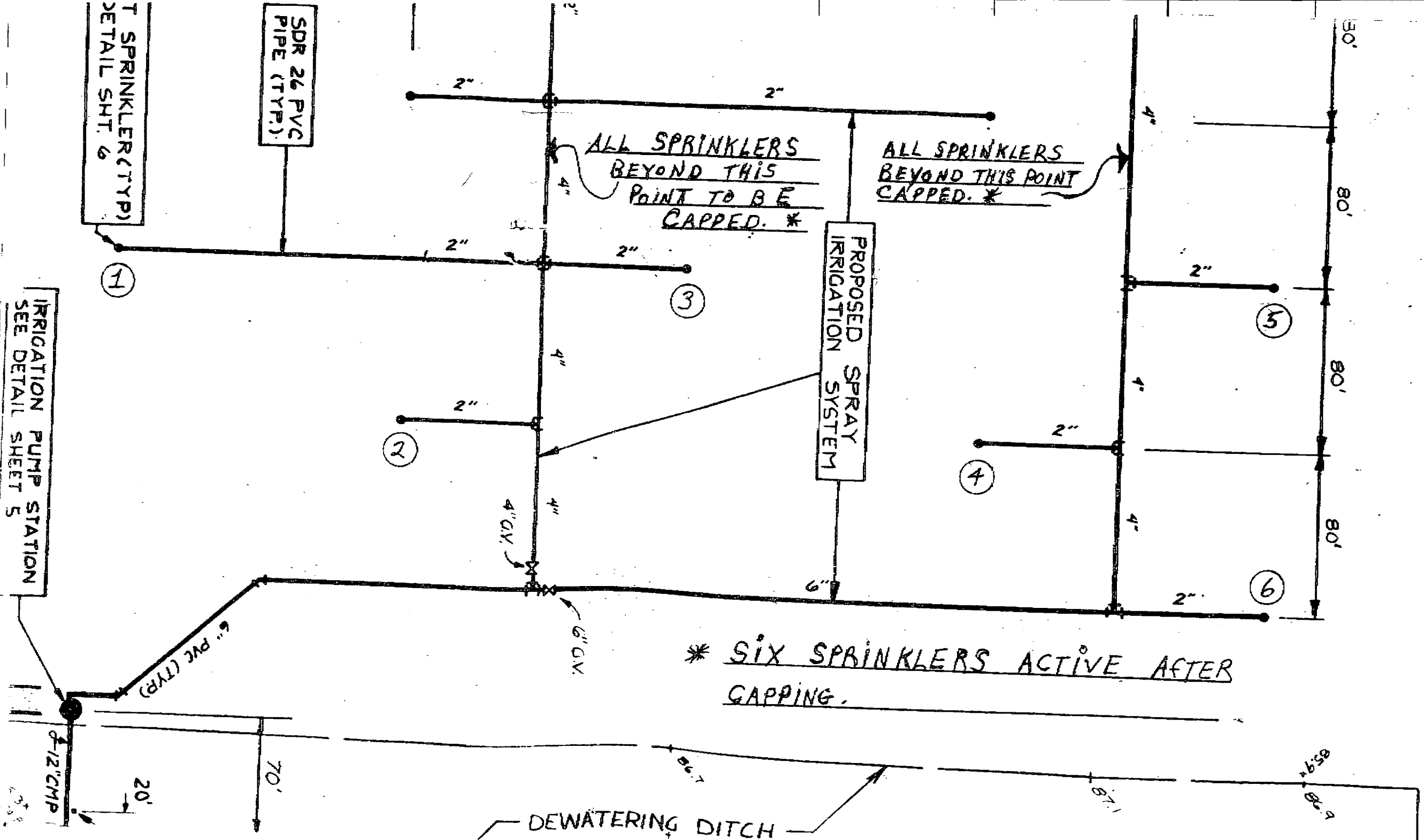
IRRIGATION PUMP STATION
SEE DETAIL SHEET 5

T SPRINKLER (TYP)
DETAIL SHT. 6

SDR 26 PVC
PIPE (TYP.)

PROPOSED
SPRAY
IRRIGATION
SYSTEM

DEWATERING DITCH



ALL SPRINKLERS
BEYOND THIS
POINT TO BE
CAPPED. *

ALL SPRINKLERS
BEYOND THIS POINT
CAPPED. *

* SIX SPRINKLERS ACTIVE AFTER
CAPPING.



Lawton Chiles
Governor

Florida Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

January 7, 1994

Mr. J.R. Prestridge
Hardee County
Department of Solid Waste
Post Office Box 246
Wauchula, FL 33873

**Re: Daily Water Balance
Hardee County Landfill
Permit #8025-214306**

Dear Mr. Prestridge:

On January 6, 1994, DEP received Hardee County's December 1993 Daily Water Balance Data. The summary provided indicates the continued spraying of leachate with the existing sprayfield. Hardee County was notified by DEP's June 11, 1993 letter, item #5., that the existing "leachate spray irrigated discharges to the creek south of the sprayfield. This is an unauthorized discharge in violation of Department rules and must be corrected".

On January 7, 1994, I spoke with Ms. Janice Williamson of your staff and explained these circumstances. Ms. Williamson said she would review DEP's June 11th letter and send the daily water balance data from June 30, 1993 to December 1, 1993 that has not been provided.

Hardee County is not authorized to use the existing sprayfield. The County may propose temporary spray evaporation or hauling to an off-site WWTP until DEP authorizes use of the new spray evaporation system after its construction. Please submit by January 20, 1993 updated data through January 15, 1993 to show that spraying has been discontinued. Continued spraying with the existing system shall submit Hardee County to enforcement action.

If you have any questions, you may call me at (813) 744-6100, extension 382.

Sincerely,

Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

KBF/ab

cc: Janice Williamson, Hardee County
William Kutash, FDEP Tampa
Bob Butera, P.E., FDEP Tampa
Steve Morgan, FDEP Tampa



Lawton Chiles
Governor

Florida Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

NOTICE OF PERMIT

NOV 29 1993

Hardee County Board of
County Commissioners
Mr. James Harrison, Chairman
412 West Orange Street
Wauchula, Florida 33873-2867

Re: Hardee County Solid Waste Disposal Facility


Dear Mr. Harrison:

Enclosed is Permit Number S025-214306, issued pursuant to Section(s) 403.087(1), Florida Statutes.

Any party to the Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

KBF/ab

cc: J.R. Prestridge, Hardee County
Steve Dutch, P.E., Wade-Trim
Doug Beason, OGC, Tallahassee
Mary Jean Yon, FDEP Tallahassee
Robert Butera, P.E., FDEP Tampa
Kim Ford, P.E., FDEP Tampa
Allison Amram, P.G., FDEP Tampa
Steve Morgan, FDEP Tampa

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on NOV 29 1993 to the listed persons.

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant
to §120.52(10), Florida
Statutes, with the designated
Department Clerk, receipt of
which is hereby acknowledged.

Anna Blach
Clerk

NOV 29 1993
Date



Florida Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

PERMITTEE

Hardee County Board of
County Commissioners
Mr. James Harrison
Chairman
412 West Orange Street
Wauchula, FL 33873-2867

PERMIT/CERTIFICATION

GMS ID No: 4025C30001
Permit No: S025-214306
Date of Issue: NOV 29 1993
Expiration Date 6/10/97
County: Hardee
Lat/Long: 27°34'10"
81°47'01"
Sec/Town/Rge: 35/33S/25E
Project: Hardee County
Solid Waste
Disposal Facility

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-3, 17-4, 17-25, 17-160, 17-522, 17-550, 17-701, and 17-711. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the department and made a part hereof and specifically described as follows:

To operate a solid waste Class I sanitary landfill and related facilities (approximately 95 acres), referred to as Hardee County Solid Waste Disposal Facility, subject to the specific conditions attached, disposing of solid waste, near Airport Road and S.R. 64A, northeast of Wauchula, Hardee County, Florida. The specific conditions attached are for the construction of:

1. Class I Landfill Disposal Facility
2. Construction and Demolition Debris Disposal Facility
3. Waste Tire Storage & Processing Facility

Replaces Permit No.: S025-096551

This permit contains compliance items summarized in Attachment 1 that shall be complied with and submitted to the Department by the dates noted. If the compliance dates are not met and submittals are not received by the Department on the dates noted, enforcement action will be initiated.

SPECIFIC CONDITIONS:

1. This site includes operation of a Class I landfill, construction and demolition debris disposal facility, and waste tire storage and processing, and shall be operated in accordance with all applicable requirements of Chapters 17-4, 17-25, 17-522, 17-550, 17-701, and 17-711, Florida Administrative Code. This permit is valid for operation of the Class I landfill and related facilities in accordance with the reports and other information, and the October 1993 plans submitted by Wade-Trim to the FDEP, and in accordance with all applicable requirements of Department rules. Site improvements approved as part of this permit shall be completed within **one hundred and eighty (180) days** after issuance of this permit. Any construction not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate.
2. Permits shall be modified in accordance with the requirements of Rule 17-4.080, F.A.C. A modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review by the Department is considered a substantial modification.
3. Within **sixty (60) days** after all specified construction has been completed and before use, the owner or operator shall submit to the Department a certification of construction completion, Form 17-701.900(2), signed and sealed by a professional engineer, and record drawings showing all modifications to verify conformance with the plans and specifications, and shall arrange for Department representatives to inspect the facility in the company of the permittee, the engineer, and the proposed facility operator. The new systems shall not be operated until the certification has been submitted and approved, all documentation required as a condition of the permit has been submitted, and a facility inspection by Department personnel has been conducted.
4. The prohibitions of the FAC Rule 17-701.300 shall not be violated.
5. Permits shall be renewed at least every five years. Applicants for permit renewal shall demonstrate how they will comply with any applicable new or revised laws or rules relating to construction, operation, or closure of landfills. Closure plans shall be updated at the time of permit renewal to reflect changes in closure design, long-term care requirements, and financial responsibility documentation. Facility information that was submitted to the Department to support the expiring permit, and which is still valid, does not need to be re-submitted for permit renewal. The permit renewal application shall list and reaffirm that the information is still valid.
6. A copy of the Department approved permit, revised construction drawings, operational plan, construction reports and record drawings, and supporting information shall be kept at the facility at all times for reference and inspections.

SPECIFIC CONDITIONS:

7. Landfills shall be designed, constructed, operated, maintained, closed, and monitored throughout its design period to control the movement of waste and waste constituents into the environment so that ground water and surface water quality standards and criteria of Chapters 17-3 and 17-302, F.A.C., will not be violated.

8. Landfills or solid waste disposal units shall not be located in the 100-year floodplain where it will restrict the flow of the 100-year flood, reduce the temporary water storage capacity of the floodplain unless compensating storage is provided, or result in a washout of solid waste.

9. All landfills shall be designed so that solid waste disposal units will be constructed and subsequently closed at planned intervals throughout the design period of the landfill.

10. All solid waste disposed of in the Class I disposal area must be covered with at least 6 inches of compacted earth or other suitable material, as approved by the Department, at the end of each working day. An intermediate cover of one (1) foot of compacted earth in addition to the six (6) inch initial cover shall be applied within seven (7) days of cell completion at all landfills if final cover or an additional lift is not to be applied within 180 days of cell completion. Top gradients of intermediate cover shall be designed to prevent ponding or low spots and minimize erosion. Portions of the landfill which have been filled with waste to the extent of designed dimensions shall be closed in accordance with all appropriate requirements of Department rules.

11. The Construction and Demolition Debris (C & D Debris) disposal area shall be limited to those items identified in F.A.C. Rule 17-701.200(17). The permittee shall not allow the disposal of "Garbage" in the C&D debris disposal area. The C & D Debris disposal area shall be operated in accordance with FAC Rules 17-701.730 and 17-701.803. Solid waste other than construction and demolition debris accepted at the Construction and Demolition Debris disposal area, shall be segregated, and recycled or disposed of in accordance with Department rules.

12. Waste tires and processed tires at the waste tire area shall be stored in accordance with the waste tire site requirements in Rule 17-711.510, F.A.C.

13. Storage at the waste tire area is limited to 1000 waste tires. At least 75 percent of both the waste tires and processed tires that are delivered to or are contained on the site of the waste tire area at the beginning of each calendar year must be removed for processing and disposal or recycling from the area during the year. An annual report summarizing these operations shall be submitted to the Department by March 1 of each year, pursuant to F.A.C. Rule 17-711.530(4).

SPECIFIC CONDITIONS:

14. This facility shall have at least one trained operator at the landfill during all times when the landfill receives waste. Trained operators are those who have satisfied the requirements of Chapter 17-703, F.A.C. All landfills shall have at least one spotter at each working face at all times when the landfill receives waste to detect unauthorized wastes. The owner or operator shall implement a load checking program to detect and discourage attempts to dispose of unauthorized wastes at the landfill. The load checking program shall consist of the minimum requirements specified in FDER Rule 17-701.500(6) which includes examining at least three random loads of solid waste received each week by the landfill operator.

15. The landfill owner or operator shall have an operational plan that provides written, detailed instructions for the daily operation of the landfill. The operation plan shall be kept at or near the landfill facility and shall be accessible to landfill operators. The operation plan shall be revised if operational procedures change. The plan shall include procedures for all the items listed in FDER Rule 17-701.500(2). A schedule for routine maintenance of the leachate collection and removal system shall be established to ensure operation of the system. The maintenance schedule shall be a part of the facility operation plan. Operating records shall be maintained as required by FDER Rule 17-701.500(3).

16. The owner or operator of the facility shall weigh all solid waste as it is received. Landfill operators shall record, in tons per day, the amount of solid waste received and shall estimate the amount of wastes listed in FDER Rule 17-701.500(4)(b). Waste reports shall be compiled monthly, and copies shall be submitted to the Department quarterly.

17. The landfill operator is responsible for leachate level monitoring, sampling, analysis of the landfill leachate, and for providing copies of the leachate analysis to the Department. The landfill operator shall have a prepared contingency plan to handle leachate collection, removal, and treatment problems such as those caused by interruptions of discharges to a treatment plant. Quantities of leachate collected by the leachate collection and removal system shall be recorded in gallons per day before on-site treatment or transport off-site. A rain gauge shall be installed, operated, and maintained to record daily precipitation at the landfill. All rain amounts greater than one tenth of an inch shall be recorded. Daily volumes of leachate pumped from the dewatering ditch will be recorded. Daily rainfall and leachate pump volume data will be submitted to the Department **monthly**. Complete yearly leachate/water balance data to demonstrate continuous compliance with Department rules shall be submitted to the Department **annually**.

18. The operating authority shall be responsible for the control of odors and fugitive particulates arising from this operation. Such control shall minimize the creation of these nuisance conditions on nearby property. Complaints received from the general public and confirmed by Department personnel upon site inspection shall constitute a nuisance condition and the permittee must take immediate corrective action to abate the nuisance.

SPECIFIC CONDITIONS:

19. Landfills that receive biodegradable wastes shall have a gas monitoring and control system designed to prevent explosions and fires, and to minimize off-site odors and damage to vegetation. The owners or operators shall implement a routine gas monitoring program to ensure that the standards of FDER Rule 17-701.400(10) are met. All monitoring points shall be sampled and the results reported to the Department **quarterly**. If methane gas levels exceed the lower explosive limits specified in FDER Rule 17-701.400(10)(a), the owner or operator shall:

- a. Immediately take all necessary steps to ensure protection of human health and notify the Department;
- b. Within 7 days of detection, submit to the Department for approval a remediation plan for the methane gas releases. The plan shall describe the nature and extent of the problem and the proposed remedy. The remedy shall be completed within 60 days of detection unless otherwise approved by the Department.

20. The permittee shall not accept hazardous waste or any hazardous substance at this site. Hazardous waste is a solid waste identified by the Department as a hazardous waste in Chapter 17-730, Florida Administrative Code. Hazardous substances are those defined in Section 403.703, Florida Statute or in any other applicable state or federal law or administrative rule.

21. The disposal or control of any "special wastes" at the site shall be in accordance with FAC Rules 17-701.300 and 17-701.520, and any other applicable Department rules, to protect the public safety, health and welfare. "Special Wastes" means solid wastes that can require special handling and management, including but not limited to white goods, waste tires, used oil, mattresses, furniture, lead-acid batteries, asbestos, and biological wastes.

22. The permittee shall maintain a program which prohibits the disposal of bulk industrial wastes which operation personnel reasonably believe to either be or contain hazardous waste, without first obtaining a chemical analysis of the material showing the waste to be non-hazardous. The chemical analysis of any such material so placed in the landfill, along with the customers name and date of disposal, shall be kept on file by the permittee on-site.

23. Open burning of solid waste is prohibited except in accordance with Rule 17-701.520(2), F.A.C. Controlled burning of solid waste is prohibited at this site except for clean vegetative and wood wastes which may be burned in a permitted air curtain incinerator in accordance with Rule 17-2.500(1)(e), F.A.C. Any accidental fires which require longer than one (1) hour to extinguish must be promptly reported to the Department of Environmental Protection.

SPECIFIC CONDITIONS:

24. All solid waste, recovered materials or residues handled at the facility shall be stored in a manner so as not to constitute a fire or safety hazard or a sanitary nuisance, and shall comply with all applicable local and state regulations. Recovered resources resulting from the facility and which may be offered for sale shall comply with applicable regulations of all appropriate state agencies.

25. Yard trash that is delivered to the site of the yard trash mulching area shall be processed within one hundred and eight (180) days and removed for disposal or recycling from the area within twelve (12) months of date delivered. A report summarizing these operations shall be submitted **annually** by March 1 of each year to the Solid Waste Section, Southwest District Office. Quarterly reports of yard waste are also acceptable to the Department.

26. The owner or operator shall control mosquitoes and rodents or request such control measures from the local mosquito control office, so as to protect the public health and welfare.

27. The permittee shall properly maintain the site. This includes erosion control, maintenance of grass cover, and prevention of ponding, leachate control system maintenance, and gas venting system repairs.

28. In the event of damage to any portion of the landfill site facilities regulated by this permit or failure of any portion of the landfill systems, the permittee shall **immediately** (within 24 hours) notify the Department of Environmental Protection explaining such occurrence and remedial measures to be taken and time needed for repairs. Written detailed notification shall be submitted to the Department within **seven (7) days** following the occurrence.

29. A trained supervisor or foreman shall be responsible for maintaining the facility in an orderly, safe, and sanitary manner. Sufficient personnel shall be employed to adequately operate the facility in compliance with this permit.

30. The site shall continue to have a surface water management system designed, constructed, operated, and maintained to prevent surface water from running on to waste filled areas, and a stormwater runoff control system designed, constructed, operated, and maintained to collect and control stormwater to meet the requirements of Chapter 17-25, F.A.C., and the requirements for management and storage of surface water in accordance with Chapter 373, F.S.

31. Stormwater management systems shall be designed to avoid mixing of stormwater with leachate. Stormwater or other surface water which comes into contact with the landfilled solid waste or mixes with leachate shall be considered leachate.

SPECIFIC CONDITIONS:

32. To prevent unauthorized waste disposal, access to and use of the facility shall be controlled by fencing, gates, or other barriers, as well as signs and facility personnel.

33. In addition to records and reporting required, the landfill owner or operator shall keep records of all information used to develop or support the permit applications and any supplemental information pertaining to construction of the landfill throughout the design period. Records pertaining to the operation of the landfill shall be kept for the design period of the landfill. Records of all monitoring information, including calibration and maintenance records, all original chart recordings for continuous monitoring instrumentation, and copies of all reports required by permit, shall be kept for at least ten years. Background water quality records shall be kept for the design period of the landfill.

34. Within **ninety (90) days** after issuance of this permit, the water quality monitoring system shall be installed in accordance with the Wade-Trim/Mevers & Associates Water Quality & Leachate Monitoring Plan dated July 21, 1993. All sampling and analysis activities shall be performed by organizations that have Comprehensive Quality Assurance Plans approved in accordance with Rule 17-160.300(8), F.A.C.

35. The groundwater monitoring wells are located as per 3/25/87 submittal, as follows:

<u>Well Number</u>	<u>Aquifer</u>	<u>Location</u>
MW-1	Surficial	As per Permit Figure 1
MW-2	Surficial	As per Permit Figure 1
MW-3	Surficial	As per Permit Figure 1
MW-4	Surficial (background)	As per Permit Figure 1
MW-5	Surficial	As per Permit Figure 1
MW-6	Surficial	As per Permit Figure 1
MW-7	Surficial	As per Permit Figure 1

All wells are to be clearly labelled and easily visible at all times. All wells are considered to be detection wells, with the exception of the background well, MW-4.

Water levels shall be measured quarterly in all site piezometers, P1 through P14, for evaluation of the leachate/groundwater elevations in the landfill and leachate sprayfield. The locations of these piezometers are on Wade-Trim's August 2, 1993 Improvement Site Plan, Sheet 4 of 6. A reduced portion of this plan is presented as Figure 2 of this permit.

SPECIFIC CONDITIONS:

36. Pursuant to F.A.C. Rule 17-522.410, the zone of discharge shall extend horizontally to the property line or one hundred (100) feet beyond the waste management area, whichever is less, and vertically to the base of the surficial aquifer. The permittee shall ensure that the water quality standards for Class G-II groundwaters will not be exceeded at the boundary of the zone of discharge according to Rules 17-520.400 and 17-520.420, F.A.C.

37. Leachate shall be sampled from the leachate collection system prior to entering the dewatering ditch and analyzed **quarterly** for the indicator parameters listed as follows:

Leachate indicator parameters:

Field parameters

Specific conductivity
pH
Dissolved oxygen
Colors, sheens

Laboratory parameters

Ammonium (NH₄)
Arsenic
Bicarbonate
Cadmium
Chlorides
Chromium
Iron
Lead
Mercury
Nitrate
Sodium
Total dissolved solids (TDS)
Total organic carbon (TOC)
EPA 601/602 Analytes

In addition, leachate shall be sampled and analyzed **annually** for the parameters listed in 40 CFR Part 258, Appendix II. Analytical results shall be submitted to the Solid Waste Section, Department of Environmental Protection, Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318 by the 15th of the month immediately following the end of the quarter. For landfills which are receiving waste, if this annual analysis indicates that a contaminant listed in 40 CFR 261.24 exceeds the regulatory level listed therein, the permittee shall initiate a monthly sampling and analysis program. If in any three consecutive months the same listed contaminant exceeds the regulatory level, the permittee shall, within 90 days, initiate a program designed to identify the source and reduce the presence of the contaminant in the leachate so that it no longer exceeds the regulatory level. This program may include additional monitoring of waste received and additional up-front separation of waste materials. Any leachate which is not recirculated or taken to a permitted domestic wastewater treatment facility shall be treated or managed so that no contaminant exceeds the regulatory level. If in any three consecutive months no listed contaminant is found to exceed the regulatory level, the permittee may discontinue the monthly sampling and analysis and return to a routine sampling schedule.

SPECIFIC CONDITIONS:

38. All piezometers listed in Specific Condition #36 shall be constructed in accordance with the construction procedures of the July 21, 1993 Water Quality & Leachate Monitoring Plan submitted July 21, 1993 to the Department, and in accordance with best geological practices. In addition, all piezometers shall have an impermeable barrier at or near ground surface to prevent surface water infiltration to the piezometer. Within **ninety (90) days** after piezometer installation, the following information shall be submitted to the Solid Waste Section of the Southwest District Office of the Department:

- | | |
|------------------------------------|---------------------------|
| Piezometer identification | Lithologic Log |
| Latitude/Longitude | Total depth of piezometer |
| Screen Type and slot size | Casing diameter |
| Screen length | Casing type and length |
| Piezometer seal type and thickness | |
| Elevation at top of piezometer | |
| Elevation at land surface | |

39. Within **ninety (90) days** after piezometer installation, a surveyed drawing shall be submitted showing the location of all monitor wells (active and abandoned) and piezometers in degrees, minutes and seconds of latitude and longitude, and the elevation of the top of the well casing to the nearest .01 foot, National Geodetic Vertical Datum. All surface water monitoring stations shall be surveyed in degrees, minutes and seconds of latitude and longitude. The surveyed drawing shall include the monitor well and piezometer identification number, location and elevation of all permanent benchmark(s) and/or corner monument marker(s) at the site. The survey shall be conducted by a registered Florida land surveyor.

40. All field and laboratory work done in connection with groundwater monitoring shall be conducted by a firm possessing a Generic Quality Assurance Plan or a Comprehensive Quality Assurance Plan approved by the Department in accordance with Chapter 17-160, F.A.C. The Quality Assurance Plan must specifically address the sampling and analytical work that is required by the permit. Documentation of an approved Quality Assurance Plan shall be submitted to the Department **annually** with the 1st quarterly groundwater sampling report for each year. Documentation shall include the completed signature page and the table of contents of the approved plan. The approved Quality Assurance Plan shall be followed by all persons collecting or analyzing samples related to this permit.

SPECIFIC CONDITIONS:

41. All detection wells and background wells shall be sampled and analyzed **quarterly** for the ground water indicator parameters listed in 17-701.510(8)(a) as follows:

Ground water indicator parameters:

<u>Field parameters</u>	<u>Laboratory parameters</u>
Static water level in wells before purging	Ammonium (NH ₄)
Specific conductivity	Arsenic
pH	Bicarbonate
Dissolved oxygen	Cadmium
Turbidity	Chlorides
Colors, sheens	Chromium
Temperature	Iron
	Lead
	Mercury
	Nitrate
	Sodium
	Total dissolved solids (TDS)
	Total organic carbon (TOC)
	EPA 601/602 Analytes

Compliance with groundwater standards and/or criteria shall be determined by analysis of unfiltered groundwater samples. Additional samples, wells, and parameters may be required based upon subsequent analysis.

42. In accordance with 17-701.510(7), if at any time background groundwater standards are exceeded in the detection wells, the permittee has **fifteen (15) days** after the sampling data is received in which to resample the monitor well(s) to verify the original analysis. Should the permittee choose not to resample, the Department will consider the water quality analysis as representative of current groundwater conditions at the facility. If the exceedance of groundwater standards in the detection wells is confirmed, then assessment monitoring shall be initiated as detailed in 17-701.510(7).

43. If any monitoring well becomes damaged or inoperable, the permittee shall notify the Department of Environmental Protection **immediately** (within 24 hours). A detailed written report shall follow within **seven (7) days**. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent the recurrence. All monitoring well design and replacement shall be approved by the Department prior to installation and may require a permit modification.

PERMITTEE: Hardee County BCC
Hardee County Solid Waste Disposal Facility

PERMIT NO.: SO25-214306

SPECIFIC CONDITIONS:

44. The field testing, sample collection and preservation and laboratory testing, including quality control procedures, shall be in accordance with methods approved by the Department in accordance with Chapters 17-4.246 and 17-3.401, F.A.C. Approved methods are published by the Department or as published in Standards Methods, A.S.T.M., or EPA methods shall be used. Approved methods for chemical analyses are summarized in the Federal Register, 40 CFR Part 136.

45. All groundwater monitoring analysis shall be reported on the Department Quarterly Report on Groundwater Monitoring Form 17-1.216(2). The permittee shall submit to the Department the results of the groundwater monitoring well water quality analysis no later than the **fifteenth (15) day of the month immediately following the end of each quarter**. The results of the piezometer groundwater measurements shall be included in this report. The results shall be sent to the Solid Waste Section, Department of Environmental Protection, Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8313.

46. **Annually and prior to ninety (90) days before the expiration of the Department Permit**, the permittee shall submit an evaluation of the Groundwater Monitoring Plan as per F.A.C. Rule 17-701.510(9)(b). The evaluation shall include all applicable information as required by F.A.C. Rule 17-701.510(9), and shall include an assessment of the effectiveness of the existing landfill design and operation as related to the prevention of groundwater contamination. Any groundwater contamination that may exist, shall be addressed as part of a groundwater investigation for the landfill assessment. The Groundwater Monitoring Plan shall be adequate to monitor any modifications to the existing landfill site including but not limited to closure.

47. The permittee shall provide financial assurance for this landfill site in accordance with F.A.C. Rule 17-701.630. All cost estimates for closure and long-term care shall be adjusted and submitted **annually** to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318. Proof that the financial assurance has been funded adequately shall be submitted **annually** to the FDEP District Office and to: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

48. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.), Florida Statutes, applicable portions of permit applications and supporting documents which are submitted to the Department for public record shall be signed and sealed by the professional(s) who prepared or approved them.

PERMITTEE: Hardee County BCC PERMIT NO.: SO25-214306
Hardee County Solid Waste Disposal Facility

SPECIFIC CONDITIONS:

49. A closure permit application shall be required **ninety (90) days** prior to final acceptance of waste for each landfill portion of the site. The final cover shall be placed over the entire surface of each completed portion of the filled areas within **one hundred and eighty (180) days** after final waste deposit date for each area.

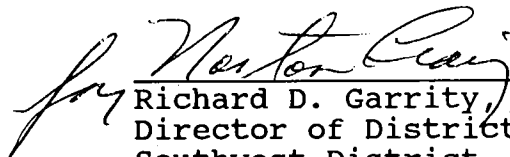
50. Prior to **90 days before the expiration** of the Department Permit, the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules.

51. The permittee shall be aware of and operate under the attached "General Conditions". General Conditions are binding upon the permittee and enforceable pursuant to Chapter 403, Florida Statutes.

52. By acceptance of this Permit, the permittee certifies that he/she has read and understands the obligations imposed by the Specific and General Conditions contained herein and also including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.

Executed in Tampa, Florida

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION**


Richard D. Garrity, Ph.D.
Director of District Management
Southwest District

ATTACHMENT 1

**PERMITTEE: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS
HARDEE COUNTY SOLID WASTE DISPOSAL FACILITY
PERMIT NO.: S025-214306**

SPECIFIC CONDITION	SUBMITTAL DUE DATE	REQUIRED ITEM
1.	180 days after issuance of permit	Site improvements completed
3.	60 days following construction	Certification and record drawings
13.	March 1/Annually	Waste tire report
16.	Quarterly	Waste quantity report
17.	Monthly	Rainfall and leachate volume data
17.	Annually	Leachate/water balance data
19	Quarterly	Gas monitoring results
25.	Annually	Yard trash report
34.	90 days after issuance of permit	Water quality monitoring system installed
37.	Quarterly	Leachate sampled/analyzed
37.	Annually	Leachate sampled/analyzed 40 CFR Part 258, Appendix II
38.	90 days after installation	Piezometer construction data
39.	90 days after installation	Survey of wells and piezometers
40.	Annually with 1st quarterly report	Documentation of QA plan approval
41.	Quarterly	Wells sampled/analyzed
45.	Quarterly	Analysis results
46.	Annually & 90 days prior to permit expiration	Evaluation of GWM Plan

<u>SPECIFIC CONDITION</u>	<u>SUBMITTAL DUE DATE</u>	<u>REQUIRED ITEM</u>
47.	Annually	Updated cost estimates for closure and long-term care
47.	Annually	Proof of funding for financial assurance
49.	90 days prior to final acceptance of waste	Closure Permit Application
50.	90 days prior to permit expiration	Apply for permit renewal

Permit Figure 1.

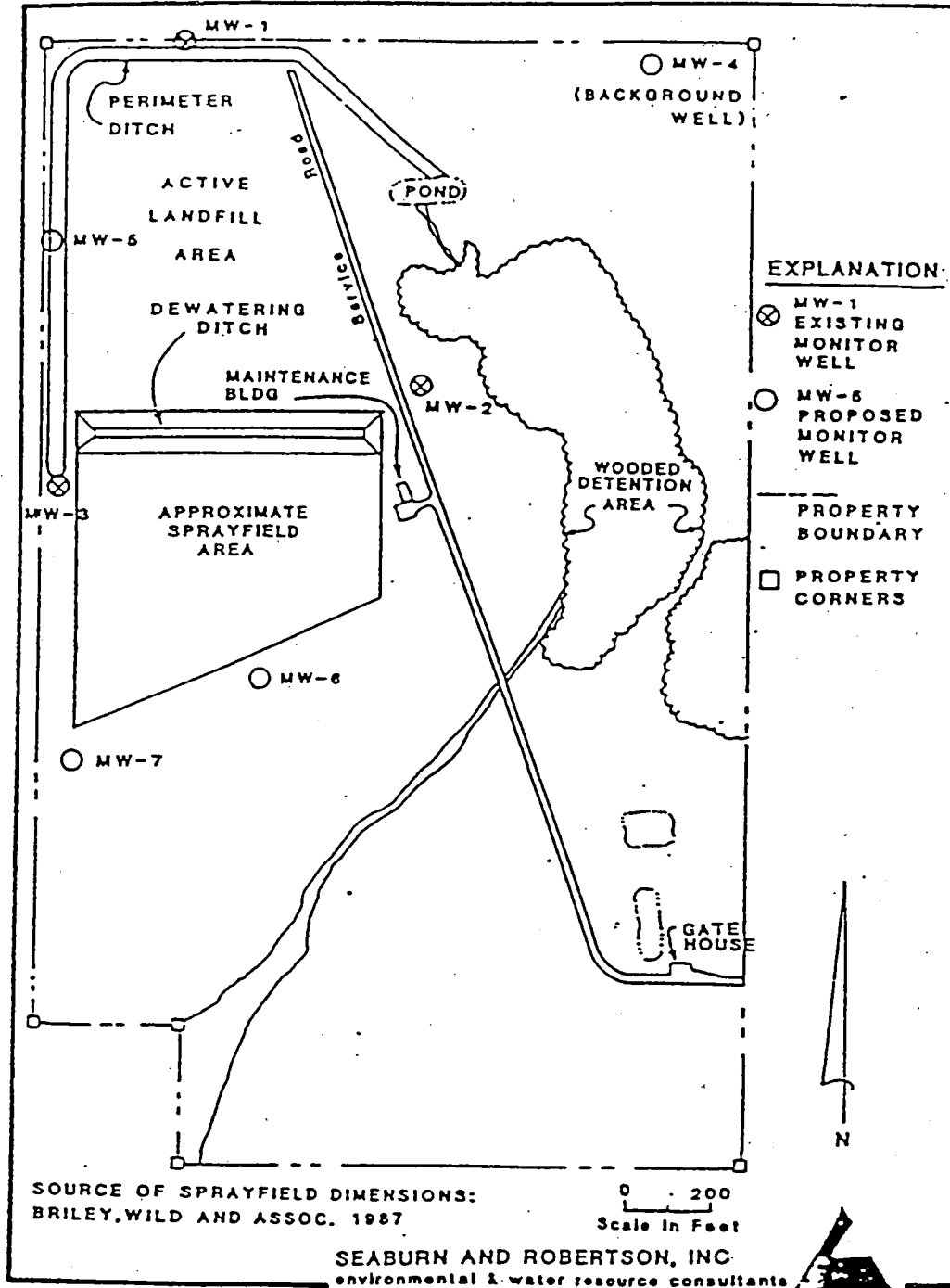


FIGURE 1.- LOCATION OF MONITOR WELLS.

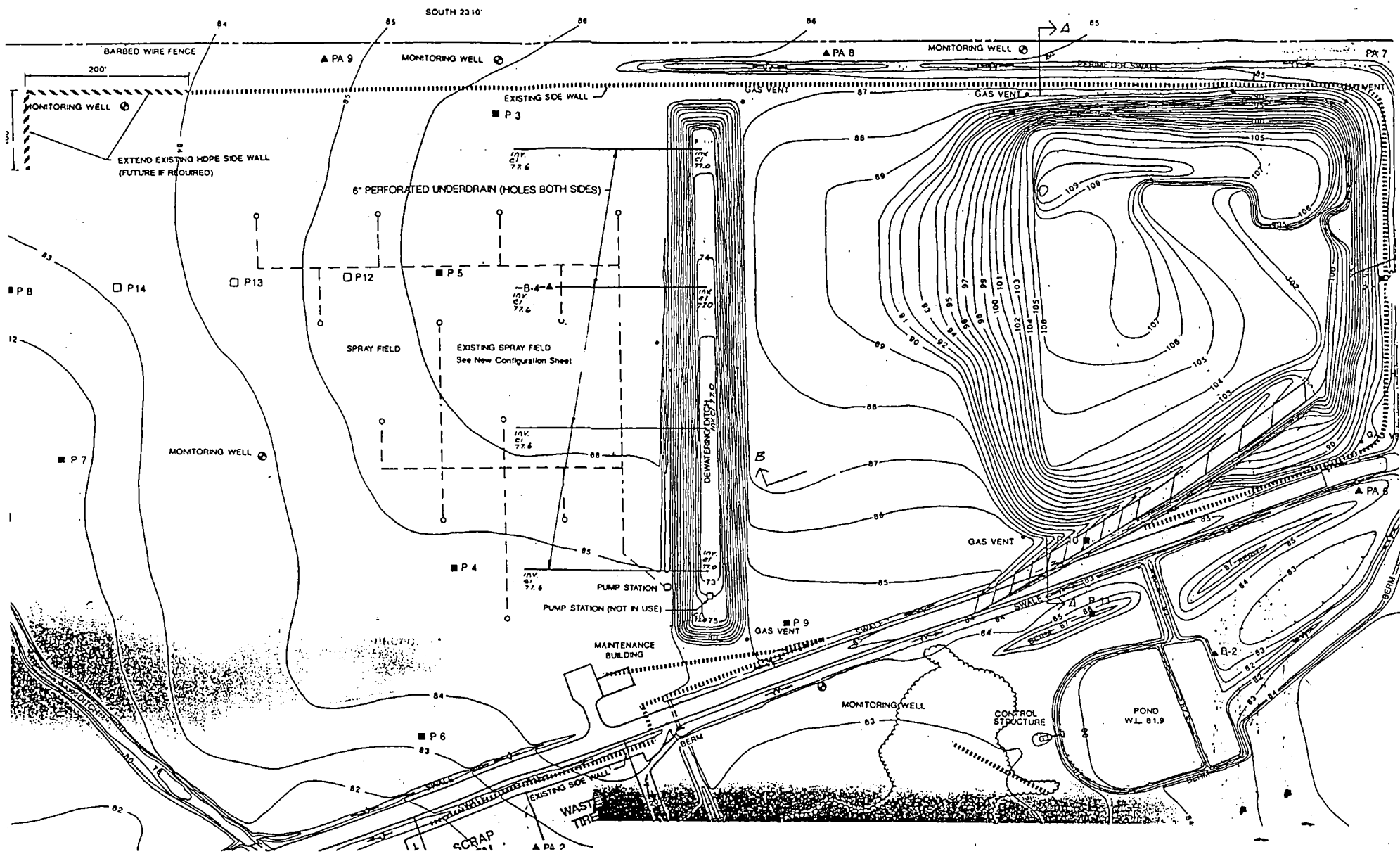


Figure 2. Improvement Site Plan (per 8/2/93 Wade-Trim Sheet 4/6)

ATTACHMENT - GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

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

3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.

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

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

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

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

- (a) Have access to and copy any records that must be kept under conditions of the permit;
- (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and

- (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

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

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

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

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

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

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

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

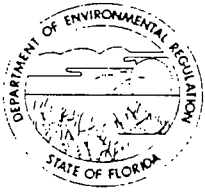
13. This permit also constitutes:

- () Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- () Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
- () Compliance with New Source Performance Standards

14. The permittee shall comply with the following:

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

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



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee

To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____

Interoffice Memorandum

PERMIT COVER MEMO

TO: _____ RICK GARRITY, DDM
 WILLIAM KUTASH, ENV. ADM. *WK* 11/9/97
 _____ OGC, ATTN: _____

FROM/THROUGH:

_____, ENVIRONMENTAL ADMINISTRATOR
 PROGRAM SUPERVISOR
 SECTION SUPERVISOR 10/14/93
 ENG, ENV SPEC, GEOLOGIST
11/19/93 Bob Butera In for RB
11/19/93 Kim Ford In 10/13/93
 DATE: 10/13/93

FILE NAME: Hardee County Landfill CASE #: 5025-24306
 PROGRAM: SOLID WASTE COUNTY: HARDEE

TYPE OF PERMIT ACTION: ISSUE DENY MODIFY
 TRANSFER OWNER NOD INTENT PUBLIC NOTICE

PUBLIC NOTICE PERIOD CLOSED? _____
 PETITION? _____ RELEASED BY OGC? _____

PERMIT SUMMARY: THIS PERMIT IS TO ALLOW
THE CONTINUED OPERATION OF THE
EXISTING LANDFILL AND RELATED FACILITIES.

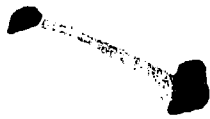
PROFESSIONAL RECOMMENDATION: APPROVE DENY

EVALUATION SUMMARY: I RECOMMEND THIS PERMIT
TO ALLOW THE LEACHATE MANAGEMENT
SYSTEM SITE IMPROVEMENTS FOR
EVAPORATION. THE IMPROVEMENTS ARE
NEEDED TO BRING THE SITE INTO
COMPLIANCE WITH FDEP RULES.

POSTED 11/4/93
14 DAYS UP ON 11/18/93
NO PETITIONS

DAY 90/30 FOR THIS ACTION IS ASAP BY 10/18/93

OCT 7 8 1993



OCT 7 8 1993

APPLICATION TRACKING SYSTEM

12/01/93

APPL NO:214306

APPL RECVD:06/03/92 TYPE CODE:50 SUBCODE:01 LAST UPDATE:11/29/93

DER OFFICE RECVD:TPA DER OFFICE TRANSFER TO:___ APPLICATION COMPLETE:07/12/93

DER PROCESSOR:FORD

APPL STATUS:IS DATE:11/29/93 (ACTIVE/DENIED/WITHDRAWN/EXEMPT/ISSUED/GENERAL)

RELIEF:___ (SSAC/EXEMPTIONS/VARIANCE)

(Y/N) N MANUAL TRACKING DISTRICT:40 COUNTY:25
(Y/N) N DGC HEARING REQUESTED LAT/LONG:27.34.10/81.47.01
(Y/N) Y PUBLIC NOTICE REQD? BASIN-SEGMENT:___
(Y/N) N GOV BODY LOCAL APPROVAL REQD? COE #:_____
(Y/N) Y LETTER OF INTENT REQD? (I/ISSUE D/DENY) ALT#:_____

PROJECT SOURCE NAME:HARDEE COUNTY REGIONAL LANDFILL

STREET:AIRPORT RD. CITY:NA

STATE:FL ZIP:_____ PHONE:_____

APPLICATION NAME:HARDEE BD. CO. COMM.

STREET:412 W. ORANGE ST. CITY:WAUCHULA

STATE:FL ZIP:33873 PHONE:813-773-5089

AGENT NAME:STEVEN DUTCH

STREET:201 E. KENNEDY BLVD. STE. 334 CITY:TAMPA

STATE:FL ZIP:33602 PHONE:813-221-2090

FEE #1 DATE PAID:06/03/92 AMOUNT PAID:10000 RECEIPT NUMBER:00192424

B DATE APPLICANT INFORMED OF NEED FOR PUBLIC NOTICE - - - ___/___/___
C DATE DER SENT DNR APPLICATION/SENT DNR INTENT - - - ___/___/___
D DATE DER REQ. COMMENTS FROM GOV. BODY FOR LOCAL APP. - - - ___/___/___
E DATE #1 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - 06/30/92--10/02/92
E DATE #2 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - 10/13/92--12/18/92
E DATE #3 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - 01/11/93--03/17/93
E DATE #4 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - 04/15/93--05/17/93
E DATE #5 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - 06/11/93--07/12/93
E DATE #6 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
F DATE LAST 45 DAY LETTER WAS SENT - - - ___/___/___
G DATE FIELD REPORT WAS REQ--REC - - - ___/___/___
H DATE DNR REVIEW WAS COMPLETED - - - ___/___/___
I DATE APPLICATION WAS COMPLETE - - - 07/12/93
J DATE GOVERNING BODY PROVIDED COMMENTS OR OBJECTIONS - - - ___/___/___
K DATE NOTICE OF INTENT WAS SENT--REC TO APPLICANT - - - 10/18/93--10/19/93
L DATE PUBLIC NOTICE WAS SENT TO APPLICANT - - - 10/18/92
M DATE PROOF OF PUBLICATION OF PUBLIC NOTICE RECEIVED - - - 11/04/93
N WAIVER DATE BEGIN--END (DAY 90) - - - 09/30/93--10/20/93

COMMENTS:

APPLICATION TRACKING SYSTEM

12/02/93

APPL NO:212896

APPL RECVD:05/05/92 TYPE CODE:50 SUBCODE:01 LAST UPDATE:11/29/93

DER OFFICE RECVD:TPA DER OFFICE TRANSFER TO:___ APPLICATION COMPLETE:07/12/93

DER PROCESSOR:FORD

APPL STATUS:IS DATE:11/29/93 (ACTIVE/DENIED/WITHDRAWN/EXEMPT/ISSUED/GENERAL)

RELIEF:___ (SSAC/EXEMPTIONS/VARIANCE)

(Y/N) N MANUAL TRACKING DISTRICT:40 COUNTY:25
(Y/N) N OGC HEARING REQUESTED LAT/LONG:81.47.01/27.34.10
(Y/N) Y PUBLIC NOTICE REQD? BASIN-SEGMENT:___
(Y/N) N GOV BODY LOCAL APPROVAL REQD? COE #:_____
(Y/N) Y LETTER OF INTENT REQD? I (I/ISSUE D/DENY) ALT#:_____

PROJECT SOURCE NAME:HARDEE COUNTY SANITARY LANDFILL

STREET:HARDEE CTY SANITARY LANDFILL CITY:HARDEE

STATE:FL ZIP:_____ PHONE:_____

APPLICATION NAME:BRD OF HARDEE CTY COMMISSIONERS

STREET:412 W. ORANGE ST. CITY:WAUCHULA

STATE:FL ZIP:33873 PHONE:_____

AGENT NAME:ENVISORS INC.

STREET:P.O. BOX 9309 CITY:WINTER HAVEN

STATE:FL ZIP:33883 PHONE:813-324-1112

FEE #1 DATE PAID:05/05/92 AMOUNT PAID:00100 RECEIPT NUMBER:00192219

B DATE APPLICANT INFORMED OF NEED FOR PUBLIC NOTICE - - - ___/___/___
C DATE DER SENT DNR APPLICATION/SENT DNR INTENT - - - ___/___/___
D DATE DER REQ. COMMENTS FROM GOV. BODY FOR LOCAL APP. - - - ___/___/___
E DATE #1 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - 05/14/92--06/03/92
E DATE #2 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - 06/30/92--10/02/92
E DATE #3 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - 10/09/92--12/18/92
E DATE #4 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - 01/11/93--03/17/93
E DATE #5 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - 04/15/93--05/17/93
E DATE #6 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - 06/11/93--07/12/93
F DATE LAST 45 DAY LETTER WAS SENT - - - ___/___/___
G DATE FIELD REPORT WAS REQ--REC - - - ___/___/___
H DATE DNR REVIEW WAS COMPLETED - - - ___/___/___
I DATE APPLICATION WAS COMPLETE - - - 07/12/93
J DATE GOVERNING BODY PROVIDED COMMENTS OR OBJECTIONS - - - ___/___/___
K DATE NOTICE OF INTENT WAS SENT--REC TO APPLICANT - - - 10/18/93--10/19/93
L DATE PUBLIC NOTICE WAS SENT TO APPLICANT - - - 10/18/93
M DATE PROOF OF PUBLICATION OF PUBLIC NOTICE RECEIVED - - - 11/04/93
N WAIVER DATE BEGIN--END (DAY 90) - - - 09/30/93--10/20/93

COMMENTS:THIS PERMIT NUMBER NOT USED. PERMIT S025-214306 [REDACTED] INCLUDES THIS OPERATION OF THE CONSTRUCTION AND DEMOLITION DEBRIS FACILITY

APPLICATION TRACKING SYSTEM

12/02/93

APPL NO:209268

APPL RECVD:02/26/92 TYPE CODE:WT SUBCODE:05 LAST UPDATE:11/29/93

DER OFFICE RECVD:TPA DER OFFICE TRANSFER TO:___ APPLICATION COMPLETE:07/12/93

DER PROCESSOR:FORD

APPL STATUS:IS DATE:11/29/93 (ACTIVE/DENIED/WITHDRAWN/EXEMPT/ISSUED/GENERAL)

RELIEF:___ (SSAC/EXEMPTIONS/VARIANCE)

(Y/N) N MANUAL TRACKING DISTRICT:40 COUNTY:25
(Y/N) N OGC HEARING REQUESTED LAT/LONG:___/___
(Y/N) Y PUBLIC NOTICE REQD? BASIN-SEGMENT:___
(Y/N) N GOV BODY LOCAL APPROVAL REQD? COE #:___
(Y/N) Y LETTER OF INTENT REQD? (I/ISSUE D/DENY) ALT#:___

PROJECT SOURCE NAME:HARDEE COUNTY SANITARY LANDFILL

STREET:AIRPORT ROAD CITY:WAUCHULA

STATE:FL ZIP:33873 PHONE:___-___-___

APPLICATION NAME:HARDEE COUNTY BOARD OF CO. COMM.

STREET:412 WEST ORANGE STREET CITY:WAUCHULA

STATE:FL ZIP:33873 PHONE:813-773-6952

AGENT NAME:___
STREET:___ CITY:___
STATE:___ ZIP:___ PHONE:___

FEE #1 DATE PAID:02/26/92 AMOUNT PAID:00100 RECEIPT NUMBER:00186828

B DATE APPLICANT INFORMED OF NEED FOR PUBLIC NOTICE - - - ___/___/___
C DATE DER SENT DNR APPLICATION/SENT DNR INTENT - - - ___/___/___
D DATE DER REQ. COMMENTS FROM GOV. BODY FOR LOCAL APP. - - - ___/___/___
E DATE #1 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - 03/19/92--04/03/92
E DATE #2 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - 04/30/92--10/02/92
E DATE #3 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - 10/09/92--12/18/92
E DATE #4 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - 01/11/93--03/17/93
E DATE #5 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - 04/15/93--05/17/93
E DATE #6 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - 06/11/93--07/12/93
F DATE LAST 45 DAY LETTER WAS SENT - - - ___/___/___
G DATE FIELD REPORT WAS REQ--REC - - - ___/___/___
H DATE DNR REVIEW WAS COMPLETED - - - ___/___/___
I DATE APPLICATION WAS COMPLETE - - - 07/12/93
J DATE GOVERNING BODY PROVIDED COMMENTS OR OBJECTIONS - - - ___/___/___
K DATE NOTICE OF INTENT WAS SENT--REC TO APPLICANT - - - 10/18/93--10/19/93
L DATE PUBLIC NOTICE WAS SENT TO APPLICANT - - - 10/18/93
M DATE PROOF OF PUBLICATION OF PUBLIC NOTICE RECEIVED - - 11/04/93
N WAIVER DATE BEGIN--END (DAY 90) - - - 09/30/93--10/20/93

COMMENTS:THIS PERMIT NUMBER NOT USED PERMIT NUMBER 5025-214306 [REDACTED]
INCLUDES THIS OPERATION OF THE WASTE TIRE STORAGE FACILITY.

NOV 15 1993

AFFIDAVIT OF PUBLICATION

The Herald-Advocate

Published Weekly at Wauchula, Florida

STATE OF FLORIDA,
COUNTY OF HARDEE

Before the undersigned authority personally appeared Jim Kelly who on oath says he is the editor of The Herald-Advocate, a news paper published at Wauchula, in Hardee County, Florida; that the attached copy of advertisement, being a Notice

in the matter of proposed agency action on permit application

in the _____ Court, was published in said newspaper in

the issues of 11/4 - 11/11/93

Affiant further says that the said Herald-Advocate is a newspaper published at Wauchula, in said Hardee County, Florida, and that the said newspaper has heretofore been continuously published in said Hardee County, Florida, each week and has been entered as second class mail matter at the post office in Wauchula, in said Hardee County, Florida, for a period of one year next preceding the publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

OFFICIAL NOTARY SEAL
ANNETTE P MISLEVY
NOTARY PUBLIC STATE OF FLORIDA
COMMISSION NO. CC202536
MY COMMISSION EXPIRES JUNE 14 1996

Jim Kelly
Subscribed before me this 12th day of November
A. D. 1993
Annette P. Mislevy Notary Public
My Commission Expires June 14 1996

RECEIVED
NOV 19 1993

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

**State of Florida
Department of
Environmental Protection
Notice of Proposed Agency Action
on Permit Application**

The Department gives notice of its intent to issue a permit to the Hardee County Board of County Commissioners, represented by Mr. James Harrison, who applied on June 3, 1992, to the Department of Environmental Protection for a permit to operate a solid waste disposal facility, subject to the specific conditions attached, for solid waste management and disposal near Airport Road and S.R. 64A, northeast of Wauchula, Hardee County, Florida.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of Department's action, or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department.

Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 17-103.155, F.A.C.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.

HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

Room A-204, Courthouse Annex
412 West Orange Street
Wauchula, Florida 33873-2867
(813) 773-6952 • (813) 773-9430 • FAX (813) 773-0958

MINOR L. BRYANT
District I

BENNY W. ALBRITTON
District II

TED HITE
District III

ROYCE TYSON, JR.
District IV

WALTER OLLIFF, JR.
District V

GARY ODEN
County Manager

GARY A. VORBECK
County Attorney

FAX TRANSMITTAL

DATE: 11-4-93
TIME:

TO: *Kim FORD
DEP*

FROM: *J.R. PRESTRIDGE*

COPIES TO:

SUBJECT: *AD FOR LANDFILL
PERMIT*

FAX NUMBER: *813-744-6090*

NUMBER OF PAGES: *2*
(Including this sheet)

PLEASE DELIVER THESE PAGES TO THE INDIVIDUAL NAMED ABOVE. IF YOU HAVE ANY DIFFICULTY RECEIVING THIS TRANSMISSION OR IF PAGES ARE MISSING OR ILLEGIBLE, PLEASE CALL 813/773-6952 OR 813/773-9430 AND SPEAK WITH:

* COMMENTS:
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State of Florida
Department of
Environmental Protection
Notice of Proposed Agency Action
on Permit Application

The Department gives notice of its intent to issue a permit to the Hardee County Board of County Commissioners, represented by Mr. James Harrison, who applied on June 3, 1992, to the Department of Environmental Protection for a permit to operate a solid waste disposal facility, subject to the specific conditions attached, for solid waste management and disposal, near Airport Road and S.R. 64A, northeast of Wauchula, Hardee County, Florida.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below, and must be filed (received) in the Office of General Counsel of the Department at 2400 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

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If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department.

Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 17-103.155, F.A.C.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.

SOUTHWEST DISTRICT

CONVERSATION RECORD

Date Nov 1, 1993

Time 9:00

Subject Leachate Testing

Permit No. Pending SO

County Hardee

M Bob Sullivan

Telephone No. 904/672-5668

Representing Hardee Co - Enviro Lab

Phone Me Was Called Scheduled Meeting Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

Draft permit for Hardee Co permit
- some organics have no standards
- I asked him to speak w/ our QA section
for guidance w/od to their QAP

Can do 80-85% of Appendix II parameters
he will fax me a list of what he can't
find standards for by the end of the week
I will send it to our QA section to let
them know what the pending problems are

(continue on another sheet, if necessary)

Signature Allison E. Amman

Title ES3

I N T E R O F F I C E M E M O R A N D U M

Date: 01-Nov-1993 10:24am EST
From: Allison Amram TPA
AMRAM_A
Dept: Southwest District Offi
Tel No: 813/744-6100
SUNCOM: 542-6100

TO: Robert Butera TPA
TO: Kim Ford TPA

(BUTERA_R)
(FORD_K)

Subject: Hardee County Permit Process

I have reviewed the permitting summary for the Hardee County landfill Permit No. SO25-096551 prepared by Hardee County. The County applied for a renewal of their operations permit in June 1992, and obtained their permit in October 1993. Details of the 16 month process are provided below from the hydro point of view.

The initial completeness review by FDEP was sent out June 30, 1992, and had 9 comments. Five of these comments were initially addressed by the County in 90 days, 3 in 3-5 months, and one was initially addressed 9 months after the June 1992 letter. Follow-up comments by the FDEP related back to these initial comments, but requested further detail. A short summary of how each of the 9 items was addressed is attached.

Steve Dutch's item concerning rerunning the MODFLOW model for "what if" scenarios was also evaluated. I reviewed the initial MODFLOW model in April 1993. The initial model was not based on collected field data, did not provide the model's grid orientation (in other words, I could not relate the model to the site), was not calibrated, and the hydraulic boundaries were not defined. All of this information was necessary to see how the model was done.

The second running of the model confirmed the groundwater migration from the sprayfield away from the dewatering ditch, i.e.- leachate was leaving the "liner" system and discharging through the creek that runs through the site.

Once the groundwater discharge was evident through the modeling, the design changes were evaluated so that the sprayfield could be utilized without discharging. This involved rerunning the model with sprayfield underdrains, and varying the discharge through the sprinkler heads. This was run with the groundwater discharge elevations for the ditch lower than the underdrains. I asked for the model to be run as a "worst case" scenario at the elevation of the underdrains for assurance that at the highest groundwater elevation, that no discharge away from the ditch would occur.

Additional delays (minor, but irritating) on the hydro portion include:

- * unsealed reports
- * incorrect references
- * report pages with missing text
- * incorrect calculations for slug tests
- * applicant provided only one copy of all reports. DEP requested two copies to facilitate our review, but this request was ignored. Rules state that the applicant shall submit 4 copies for Department review.

- * It appeared that the work products were hurried, and the geological sections appeared to be unreviewed by anyone besides the preparer.

To make the process proceed more rapidly, I would suggest the following steps that DEP can control:

1) In an initial meeting, or in the completeness review, provide the level of description necessary for DEP to evaluate an item. It seemed on the engineering issues and the groundwater modeling that the applicant was not aware of what DEP needed to conduct a review of their conclusions.

2) I would recommend that the County (owner) attend all meetings between their consultant, and FDEP in order to be aware of the pending issues.

3) I would recommend that all submittals be reviewed by the applicant/consultant for completeness and errors prior to submittal to the Department. (Whoops! I digressed; we don't have control over this issue).

Kim has summed up his ideas on the engineering aspect of the permit in a previous memo.

FDEP'S INITIAL COMMENTS

- 1) Publication of the application was done within 2 weeks of the June 1992 letter.
- 2) CompQAP - Submitted 90 days after request; approved.
- 3) Financial Responsibility - Submitted 5 months after the June 1992 letter; took 5 months for approval (approved after one revision by the County).
- 4) Cross section for the fill sequence - Submitted 9 months after the June 1992 request; took 5 months for approval (approved after 3 revisions). The County did not provide adequate detail for the cross sections to satisfy DEP, and this resulted in the 3 requests for information.
- 5) Source/type of cover material - Submitted 5 months after the June 1992 request; approved in 3 months (one revision).
- 6) Evaluation of leachate control/removal systems - Submitted first response in 90 days; took one year for approval after 4 revisions and three meetings. This appears to be the primary area where delay in the permitting process occurred. Their March 1993 was the first submittal that showed (through groundwater modeling on MODFLOW) that the leachate was moving from the sprayfield away from the dewatering ditch. However, they did not address corrections for this condition in that submittal. After this discovery, both the applicant and DEP were working together to try and resolve the discharging of leachate to the groundwater.
- 7) Designate responsible parties - Done in 90 days.
- 8) CD&D information - Submitted 6 months after the June 1992 request; approved in one month (no revisions).
- 9) Hydrogeologic data - Submitted 90 days after the June 1992 letter. DEP's first comments after the plan was submitted were not addressed for 5 months. The new regulations were effective in Jan 1993, and this affected the detail of their water quality monitoring plan. The leachate discharge to groundwater away from the dewatering ditch was confirmed in March 1993, and from March until approval in August 1993, the groundwater discharge/leachate sprayfield issue was the major holdup of the permit.

I N T E R O F F I C E M E M O R A N D U M

Date: 29-Oct-1993 08:38am EST
From: Kim Ford TPA
FORD K
Dept: Southwest District Offi
Tel No: 813/620-6100
SUNCOM: 542-6100 Ext. 382

TO: Robert Butera TPA

(BUTERA_R)

Subject: HARDEE COUNTY LANDFILL PERMITTING DELAYS

I can appreciate your concern over the amount of time it took for Hardee County to qualify for renewal of their operation permit.

In summary, some of the keys to this are:

1. May 1992...Hardee County placed a \$14,600. limit on the cost of the permit renewal. Hardee County did not know their existing sprayfield was discharging leachate to a nearby creek. DEP had not brought this to their attention in advance of permitting. A new spray system and groundwater monitoring system was a surprise.
2. June 1992...Wade-Trim applies for the permit renewal.
3. June 1992...DEP requests an evaluation of the existing sprayfield as part of its first incompleteness letter.
4. September 1992...Wade-Trim's 1st response is insufficient. This submittal was their first serious attempt to resolve the issues required by rule. Their initial permit submittal, as it is for many, served as a probing exercise to find out what DEP is primarily concerned with.
5. October 1992...DEP requests a more detailed evaluation of the existing sprayfield as part of its second incompleteness letter, and for the evaluation to include professional conclusions and recommendations.
6. March 1993...Wade-Trim's 2nd response confirms that an outward gradient is present from the existing sprayfield, however corrective action plans not provided.
7. April 1993...DEP requests a corrective action plan, which is 10 months after the application for permit renewal. This is the most significant factor causing the delay. It is not unusual for permitting staff to find problems not found by routine inspections.

8. July 1993...Wade-Trim's 3rd response includes modifications to the existing sprayfield.

9. July 1993...DEP requests all supporting information for the modification to the existing sprayfield.

10. August 1993...Wade-Trim's 4th response includes supporting information for the new sprayfield.

11. August 1993...DEP requests some revisions to the proposed system and additional detail for all the components of the new sprayfield.

12. September 1993...Wade-Trim's 5th response includes the additional detail.

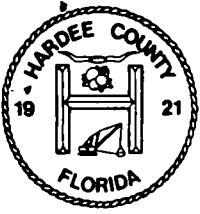
13. October 1993...DEP issues an Intent To Issue for the permit renewal.

It is our job to question the proposed designs until reasonable assurance is provided, or deny the permit. Obviously, denying this permit would not have been beneficial but could have been justified following the September 1992 submittal by Wade-Trim.

The most significant problem causing the permitting delay was the unauthorized leachate discharges from the sprayfield caused by an outward gradient. This problem was not found by DEP's routine inspections or in-house evaluation of the existing groundwater data by the County or DEP.

Early and strong enforcement is recommended to avoid long permitting delays. Components of the landfill system that relate to leachate management must be routinely inspected and evaluated by DEP. This includes inspecting all pump stations and storage ponds and berms to prevent discharging leachate from the working disposal area.

DEP staff inspecting landfills must have a complete knowledge of these systems and clearly understand what problems to look for. I know that the inspectors are pressured by the operators with such comments as "We are taking care of that right now" or "You don't see any leachate running off that exposed waste". It should be our obligation to write them up routinely if there is not the assurance at the moment of the inspection that problems will not occur. Potential problems to them are not problems, but to us they are problems. If potential problems are not corrected by routine enforcement then permitting will take longer every time.



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

RECEIVED
OCT 29 1993

Page 1 of 2

October 27, 1993

Department of Environmental Protection
Waste Management Section
Robert J. Butera, P.E.
3804 Coconut Palm Drive
Tampa, Florida 33619-8318

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

Dear Mr. Butera:

As per our meeting and conversations on October 27, 1993, we are submitting the following information:

TIME LINE ON CONSTRUCTION FOR THE CLASS I LANDFILL IMPROVEMENTS

* Final Design and Specifications Wade-Trim	15 days
* Prepare Contractual Documents Wade-Trim	15 days
* Hardee County BOCC Approval	14 days
* Advertisement for Bids on Construction	14 days
* Pre Bid Conference	-
* Response Time for Bidders (proposal preparation time)	28 days
* Review Bids and Award Contract	14 days
* Issue Notice to Proceed	-
* Time for Contractor to prepare for Construction	30 days
* Actual Construction	60 days
TOTAL	190 DAYS

The time line above could possibly take less or even more time than stated depending upon the circumstances. However we feel that this time frame is very realistic given the scope of construction and the importance of a job well done.

We would, at this time, like to request your consideration on

Page 2 of 2

stipulation number 25. Hardee County Sanitary Landfill generates an average of 165 tons of wood and yard trash per month. Number 25 requires us to process this site monthly, however, mobilization cost, for a contractor to process such a small amount per month would be much more expensive than to process biannually or even quarterly. It is also possible that we will not be able to get a contractor who will process such a small amount when his equipment is capable of processing 75 tons per hour. Therefore we would like you to consider extending the time between processing to biannually.

In closing we would like to thank you for your time and input given in our meeting on October 27, 1993 and if you should have any further questions or comments please feel free to contact us.

Sincerely,

A handwritten signature in cursive script, appearing to read "J.R. Prestridge".

J.R. Prestridge,
Solid Waste Superintendent

jw

SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 10/29/93
Time 8:50

Subject Pending SO Permit
Permit No. _____
County Hardee

M JR Prestridge Telephone No. _____
Representing Hardee Co. Solid Waste

Phone Me [] Was Called [] Scheduled Meeting [] Unscheduled Meeting
Other Individuals Involved in Conversation/Meeting _____

#37 Lab has some questions - They don't have
QA approval for all Appen II parameters

44. - Update Fed'l Register reference
Dec 1, 1976

#37 JR can sample leachate from the manholes -
would want to set up a sampling station
so that the heavy manhole wouldn't
need to be removed by the lab. Also
mentioned sampling from the gas
vents.

He has asked the lab to call me.

(continue on another
sheet, if necessary)

Signature Allison E Amram
Title ES3

SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 10-28-93 Subject Permit Changes
Time 2:30 Permit No. 50
M Janice County Hardee
Telephone No. 813 / 773-5089

Representing Hardee Co Solid Waste

Phone Me Was Called Scheduled Meeting Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

Specific Conditions - Proposed Changes by Hardee

#1 - 190 days

#25 - yard trash - avg. 165 tons/month

Asking for ~~bi~~^{semi}annual mulching - probably will be taking mulcher ~ 1 week to grind.

#37 - she will have JR call us back

They have not published Notice of Intent yet -- she will fax proof to Kim

(continue on another sheet, if necessary)

Signature Allison Amram & Kim Ford
Title _____

Memorandum

Florida Department of
Environmental Protection

TO: Bob Butera, P.E.
FROM: Allison Amram, P.G. *AA*
DATE: October 26, 1993
SUBJECT: Summary of Hardee County Landfill Design/Ops

.....

The Hardee County landfill has currently been issued an Intent to Issue a landfill operational permit for renewal of their site operations. The landfill includes an area for Class I, C&DD disposal, waste tire storage and processing. Also located at the facility are a volume reduction and **baling** facility, landfill offices and fleet maintenance area for the landfill vehicles.

The landfill is described below by feature.

LINER

The landfill is constructed with a **natural clay bottom liner** (the Hawthorn Formation clays) located approximately 12.5-19 feet below land surface (BLS). Three sides of the landfill have a **synthetic sidewall liner** is anchored into at least 18" of clay. The fourth side (south side) of the landfill has a leachate dewatering ditch to hydraulically isolate leachate from the groundwater, and to remove leachate.

LEACHATE COLLECTION

A **perimeter underdrain piping system** removes leachate from the landfill to the dewatering ditch. Water from the ditch is pumped to a **sprayfield** located south and north of the ditch. Additional sprayheads are located over the ditch for further evaporation. Excess water that percs into the soils is collected in an **underdrain piping system** and removed to the dewatering ditch to be run through the cycle again. Water levels in the ditch are maintained to constantly draw leachate in and remove excess water from the sprayfield. The sprayfield is monitored by a series of piezometers that measure water levels to ensure that the excess leachate is collected in the ditch. The sprayfield totals 6.41 acres, and is expected to handle the spraying of approximately 25,000 gpd during the dry months, and up to 45,700 gpd during the rainy season. As an additional

precaution, agreements are being worked out with the **City of Wachula's WWTP** to receive and treat up to 25, 000 gpd of leachate at approximately \$.12/gallon.

LEACHATE SAMPLING

Leachate is **sampled quarterly** for leachate indicator parameters. A copy of leachate chemistry is attached. pH measurements have lowered since 1988; no other trends were discernible.

GROUNDWATER

Groundwater **appears to be unaffected by the landfill operations** at this time. Natural groundwater quality has lower pH (5-6.5) and higher iron (1-15mg/l) which exceed the Department's groundwater quality standards. The site has **7 wells and 14 piezometers**. The wells are sampled quarterly for leachate indicator parameters, and water levels are measured in the piezometers. All wells and piezometers **monitor the surficial aquifer** which consists of unconsolidated sands, clays and phosphorite. The Floridan aquifer is present below the Hawthorn clay that the landfill liner is keyed into. Waste was not placed directly over the liner clays, but is separated by at least several feet (the sidewall liners were placed in trenches; couldn't tell how deep the waste goes). Over undisturbed areas of the site, the groundwater is located within 5 feet of the land surface. A ZOD is located within 100 feet of the waste disposal areas.

SURFACE WATER

A ditch with seasonal flow is present over the southwest portion of the landfill property. This ditch drains the surface waters to a bayhead, which empties into the Peace River. **Surface water is not sampled** at the site due to its seasonal nature, and the separation of leachate from stormwaters.

GAS

A gas monitoring system is present with vents located at 500 foot centers along the perimeter of the landfill. Gas monitoring is conducted quarterly to monitor for elevated levels of methane gas. **No problems** have been reported to date.

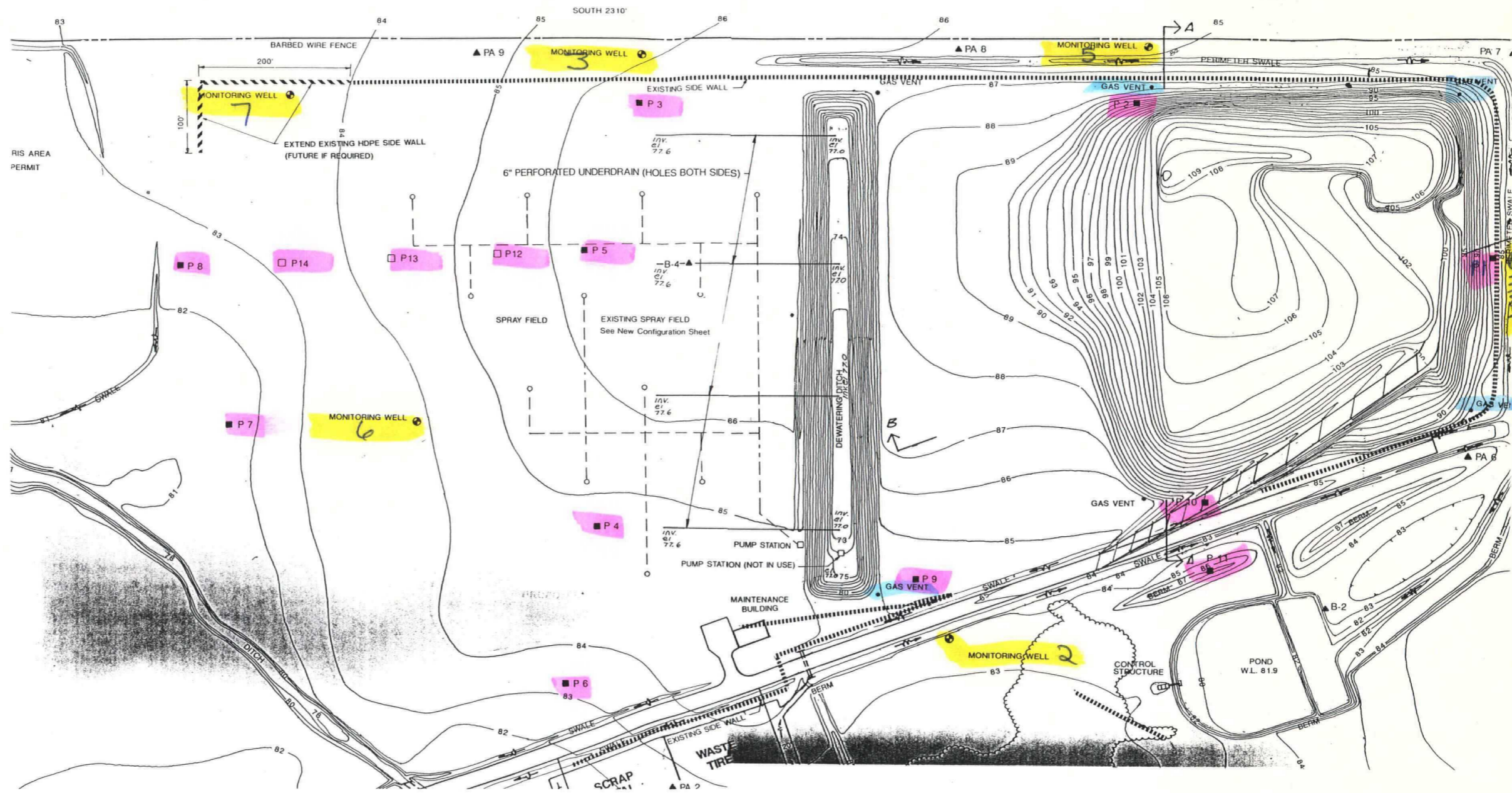
I have attached a site map with elevations, gas vent, monitoring well and piezometer locations.

HARDEE COUNTY LANDFILL
CHEMISTRY OF SPRAY IRRIGATION FROM LEACHATE/GROUNDWATER DEWATERING DITCH

Date	Conductivity umhos/cm	pH	Temp (Field)	Turbidity	Fe mg/L	Pb mg/L	DO (Field) mg/L	TOC mg/L	Total Coliform #/100 mL
3/10/93	480	5.9	22.1	22	4.7	.003	5.7	7.0	>6100
11/16/92	500	5.6	21.9	24	4.1	<.02	2.3	11	
8/20/92	610	6.3	27.3	33	4.0	<.02	1.9	6	TNTC
5/4/92		6.5		14	2.4	.04	<1	18	C
2/17/92	582	6.7		38	1.9	<.02	2.1	14	C
11/4/91	550	6.9		25	4.2	<.02	4.0	7.5	C
8/6/91	516	6.9		11	2.6	<.02	3.2	5.6	<1
5/7/91	487	6.9	25.5	13	3.5	<.02	4.8	10	TNTC
1/23/91	527	6.3	17.5	32	.3	<.02	5.5	¹ Bicarb = 210 12	TNTC
11/14/90	580	6.2	20.5	13	1.7	<.02		9.5	TNTC
7/25/90	470	6.4	27.7	6.9	2	<.02	2.2	² Tot. Alk = 150 19	TNTC
4/30/90	467	6.54	25	9.8	1.5	<.02	3.2	² Tot. Alk = 150 10	TDS = 120 1000
2/2/90	526	7.1	21.2	7.6	1.6	<.02	5	4	TNTC
11/15/89	475	6.91	23.7	6.3	1.3	<.02	3	² Tot. Alk = 150 9.5	TNTC
8/30/89	384	6.9		4.6	1.7	<.02	4.0	² Tot. Alk = 100 11	TNTC
6/8/89	410	6.51		56	3.2	<.02	1.2	12	TNTC
3/27/89	510	7.6		30	5.5	<.02	4.2	14	TNTC
1/4/89	490	7.2		41	5.8	.02	2.6	6.9	TNTC
9/16/88	<5	7.21		5.8	.91	<.02	5.6	4.7	2800
6/8/88	280	7.77		14.7	2.8	.02	3.0	16	2700

PLEASE NOTE: Spraying of leachate began in 1985.

- TNTC - Too Numerous to Count
C - Confirmed
¹Tot. Alk. - Total Alkalinity in mg/L
²Bicarb. - Bicarbonate as MgCaCO₃/L



- Wells
- PZs
- Gas vent

↓
mw-4
(background)

12

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

In the Matter of an
Application for Permit by

DER File No. SO25-214306

Hardee County Board of
County Commissioners
Mr. James Harrison, Chairman
412 West Orange Street
Wauchula, Florida 33873-2867

OCT 18 1993

INTENT TO ISSUE

The Department of Environmental Protection hereby gives notice of its Intent to Issue an operation permit (copy attached) for the proposed project as detailed in the application specified above. The Division is issuing this Intent To Issue for the reasons stated below.

The applicant, Mr. James Harrison, Commission Chairman, Hardee County Board of County Commissioners, applied on June 3, 1992, to the Department of Environmental Protection for a permit to operate a solid waste disposal facility, referred to as the Hardee County Solid Waste Disposal Facility, for solid waste management and disposal, near Airport Road and S.R. 64A, northeast of Wauchula, Hardee County, Florida.

The Department has permitting jurisdiction under 403.707 and 403.861, Florida Statutes, and Rules 17-4, 17-701, and 17-711, Florida Administrative Code (F.A.C.). The project is not exempt from permitting procedures. The Department has determined that an operation permit is required for the proposed work.

The Department intends to issue this permit based on its belief that reasonable assurances have been provided to indicate that the proposed project will not adversely impact water quality and the proposed project will comply with the appropriate provisions of Chapters 17-3, 17-4, 17-25, 17-550, 17-701, and 17-711, subject to the specific conditions attached in the permit.


Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Proposed Agency Action on permit application. The notice must be published one time only in a section of a major local newspaper of general circulation in the county in which the project is located and within thirty (30) days from receipt of this intent. Proof of publication must be provided to the Department within seven days of publication of the notice. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

The Department will issue the permit with the attached conditions unless petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S. A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. Petitions must comply with the requirements of Florida Administrative Code Rule 17-103.155 (copy enclosed) and be filed with (received by) the Office of

General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant must be filed within fourteen (14) days of receipt of this intent. Petitions filed by other persons must be filed within fourteen (14) days of publication of the public notice or within fourteen (14) days of receipt of this intent, whichever first occurs. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes, concerning the subject permit application. Petitions which are not filed in accordance with the above provisions will be dismissed.

Executed in Tampa, Florida,

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Richard D. Garrity, Ph.D.
Director of District Management
of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619-8313

Attachment

cc: J. R. Prestridge, Hardee County
Steve Dutch, P.E., Wade-Trim
Doug Beason, OGC, Tallahassee
Mary Jean Yon, FDEP Tallahassee
Robert Butera, P.E., FDEP Tampa
Kim Ford, P.E., FDEP Tampa
Allison Amram, P.G., FDEP Tampa
Steve Morgan, FDEP Tampa
Elected Officials Notification List

P 648 751 522



Certified Mail Receipt

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to <i>James Harrison</i>	
Street & No. <i>412 W. Orange St.</i>	
P.O., State & ZIP Code <i>Wauchula FL 33873-2867</i>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$
Postmark or Date <i>10-18-93</i>	

PS Form 3800, June 1990

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt Fee will provide you the signature of the person delivered to and the date of delivery.

I also wish to receive the following services (for an extra fee):

1. Addressee's Address
2. Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

*Mr. James Harrison, Chairman
Hardee County Bd. of County Commissioners
412 West Orange Street.
Wauchula, FL 33873-2867*

4a. Article Number

P 648 751 522

4b. Service Type

- | | |
|---|--|
| <input type="checkbox"/> Registered | <input type="checkbox"/> Insured |
| <input checked="" type="checkbox"/> Certified | <input type="checkbox"/> COD |
| <input type="checkbox"/> Express Mail | <input checked="" type="checkbox"/> Return Receipt for Merchandise |

7. Date of Delivery

RB 10/19/93

5. Signature (Addressee)

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

UNITED STATES POSTAL SERVICE

Official Business



RECEIVED
OCT 22 1993



PENALTY FOR PRIVATE USE, \$300

Department of Environmental Protection

Southwest District

BY

Print your name, address and ZIP Code here

Kim Ford

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
3804 COCONUT PALM DR.
TAMPA, FLORIDA 33619

wjm

CERTIFICATE OF SERVICE

The undersigned duly designated deputy Clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on OCT 18 1993 to the listed persons.

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant
to §120.52(10), Florida
Statutes, with the designated
Department Clerk, receipt of
which is hereby acknowledged.

Jan Seivens
Clerk

10-18-93
Date

State of Florida
Department of Environmental Protection
Notice of Proposed Agency Action on Permit Application

The Department gives notice of its intent to issue a permit to the Hardee County Board of County Commissioners, represented by Mr. James Harrison, who applied on June 3, 1992, to the Department of Environmental Protection for a permit to operate a solid waste disposal facility, subject to the specific conditions attached, for solid waste management and disposal, near Airport Road and S.R. 64A, northeast of Wauchula, Hardee County, Florida.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below, and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of Department's action, or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department.

Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 17-103.155, F.A.C.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.

RULES OF THE ADMINISTRATION COMMISSION, MODEL RULES OF PROCEDURE
CHAPTER 28-5, DECISIONS DETERMINING SUBSTANTIAL INTERESTS
PART II, FORMAL HEARINGS
A) PREHEARING PROCEDURES

28-5.201 Initiation of Formal Proceedings.

(1) Initiation of formal proceedings shall be made by petition to the Agency responsible for rendering final Agency action. The term petition as used herein includes any application or other document which expresses a request for formal proceedings. Each petition should be printed, typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double-spaced and indented.

(2) - All petitions filed under these rules should contain:

(a) The name and address of each Agency affected and each Agency's file or identification number, if known;

(b) The name and address of the petitioner or petitioners, and an explanation of how his/her substantial interests will be affected by the Agency determination;

(c) A statement of when and how petitioner received notice of the Agency decision of intent to render a decision;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief;

(f) A demand for relief to which the petitioner deems himself entitled; and

(g) Other information which the petitioner contends is material.

(3) Upon receipt of a petition for formal proceedings, the Agency shall either accept or deny the petition, and if accepted shall elect either to conduct the hearing itself through the Agency head, or member thereof, assign a person authorized by Subsection 120.57(1)(a) or other authority, or request that a Hearing Officer from the Division of Administrative Hearings be assigned to conduct the hearing.

(a) A petition may be denied if the petitioner does not state adequately a material factual allegation, such as a substantial interest in the Agency determination, or if the petition is untimely.

(b) The Agency shall promptly give written notice to all parties of the action taken on the petition, and shall state with particularity its reasons therefor.

(4) If the Agency elects to request that a Hearing Officer of the Division of Administrative Hearings be assigned to conduct the hearing, the Agency shall forward the petition, and all materials filed with the Agency, to the Division of Administrative hearings, and shall notify all parties of its action.

Specific Authority: 120.53(1), 120.54(10), F.S.

Law Implemented: 120.57, F.S.

History: New 3-23-80

Section 17-103.155, Florida Administrative Code
Rules of Administrative Procedure
Final Agency Action (Non-Rulemaking) and Appeal

17-103.155 Petition for Administrative Hearing; Waiver of Right to Administrative Proceeding.

(1)(a) Any person whose substantial interests may be affected by proposed or final agency action by the Department may file a petition for formal administrative hearing in accordance with this rule if the person disputes the material facts upon which the Department's action is based.

(b) Any person whose substantial interests may be affected by proposed or final action by the Department may file a petition for informal administrative hearing in accordance with this rule if the person objects to the Department's action but does not dispute the material facts upon which the Department's action is based.

(2) A petition for formal or informal administrative hearing pursuant to Section 120.57, F.S., shall contain the following information:

(a) The name, address, and telephone number of each petitioner. If the petitioner challenges a Department action or proposed action on a permit application, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed shall also be included;

(b) A statement of how and when each petitioner received notices of the Department action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of those material facts (i.e., those facts upon which the Department's action or proposal is based) is disputed by petitioner. If no facts are disputed, petitioner shall so state;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action;

(g) A statement of relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

(3)(a) A petition shall be in the form required by this rule and must be filed (received) in the Office of General Counsel of the Department within the following number of days after receipt or publication (whichever occurs first) of notice of proposed agency action or of notice of agency action:

1. Petitions concerning Department action or proposed action on applications for permits (except permits for hazardous waste facilities): 14 days;

2. Petitions concerning Department action or proposed action on applications for hazardous waste facility permits: 45 days;

3. Petitions concerning notices of violation when no informal conference is held: 20 days after receipt of the notice of violation;

4. Petitions concerning notices of violation when an informal conference is held: 10 days after receipt of notice of completion of the informal conference;

5. Petitions concerning other Department actions or proposed actions: 21 days. The petitioner shall also serve a copy of the petition on all other parties to the proceeding, as identified in the published notice, at the time of filing.

(b) Failure to timely file a petition within the applicable time period after receipt of notice of agency action or receipt of notice of proposed agency action, whichever notice first occurs, shall constitute a waiver if any right to request an administrative proceeding under Chapter 120, F.S.

(4) If a petition is filed that does not substantially comply with requirements of subsection (2) of this rule, the Department shall issue an order dismissing the petition with leave to file an amended petition complying with the requirements of this rule within 15 days of service of the order. An amended petition complying with this rule is not filed (received) with days of service of the order, the petitioner's right to a proceeding under Section 120.57, F.S., is waived.

(5) When there has been no publication of notice of agency action, notice of proposed agency action as prescribed in Rule 17-103.150, F.A.C., person who has actual knowledge of the agency action or has knowledge that would lead a reasonable person to conclude that the Department has taken agency action, has a duty to make further inquiry within 14 days of obtaining such knowledge by contacting the Department to ascertain whether action has occurred. The Department shall upon receipt of such an inquiry, if agency action has occurred, promptly provide the person with notice as prescribed in Rule 17-103.150, F.A.C. Failure of the person to make inquiry with the Department within 14 days after obtaining such knowledge may stop the person from obtaining an administrative proceeding on the agency action.

(6)(a) "Receipt of notice of agency action" means receipt of written notice of final agency action, as prescribed by Department rule, or the publication, pursuant to Department rule, of notice of final agency action whichever first occurs.

(b) "Receipt of notice of proposed agency action" means receipt of written notice (such as a letter of intent) that the Department proposes to take certain action, or the publication pursuant to Department rule of notice of proposed agency action, whichever first occurs.

(7) Notwithstanding any other provision in this Chapter, should a substantially affected person who fails to timely request a hearing under Section 120.57, F.S., administratively appeal the final Department action order, the record on appeal shall be limited to:

(a) the application and accompanying documentation submitted by the applicant prior to the issuance of the agency's intent to issue or deny the requested permit;

(b) the materials and information relied upon by the agency in determining the final agency action or order;

(c) any notices issued or published; and

(d) the final agency action or order entered concerning the permit application.

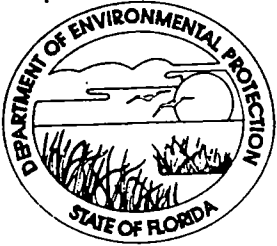
(8) In such cases where persons do not timely exercise their right accorded by Section 120.57(1), Florida Statutes, the allegations of fact contained in or incorporated by the final agency action shall be deemed uncontested and true, and appellants may not dispute the truth of such allegations upon subsequent appeal.

(9) Any applicant may challenge the Department's request for additional information by filing with the Office of General Counsel an appropriate petition for administrative proceeding pursuant to Section 120.60, F.S., following receipt by the applicant of the Department's notification pursuant to Section 403.0876, F.S., that additional information is required.

Specific Authority: 120.53, 403.0876, 403.815, F.S.

Law Implemented: 120.53, F.S.

History: New 9-20-79; Amended 4-28-81; Transferred from 17-1.62 and Amended 6-1-84; Amended 10-19-88.



Florida Department of Environmental Protection

Southwest District

3804 Coconut Palm Dr.

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Virginia Wetherell, Secretary

DRAFT

PERMITTEE

Hardee County Board of
County Commissioners
Mr. James Harrison
Chairman
412 West Orange Street
Wauchula, FL 33873-2867

PERMIT/CERTIFICATION

GMS ID No: 4025C30001
Permit No: S025-214306
Date of Issue:
Expiration Date 10/1/98
County: Hardee
Lat/Long: 27°34'10"
81°47'01"
Sec/Town/Rge: 35/33S/25E
Project: Hardee County
Solid Waste
Disposal Facility

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-3, 17-4, 17-25, 17-160, 17-522, 17-550, 17-701, and 17-711. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the department and made a part hereof and specifically described as follows:

To operate a solid waste Class I sanitary landfill and related facilities (approximately 95 acres), referred to as Hardee County Solid Waste Disposal Facility, subject to the specific conditions attached, disposing of solid waste, near Airport Road and S.R. 64A, northeast of Wauchula, Hardee County, Florida. The specific conditions attached are for the construction of:

1. Class I Landfill Disposal Facility
2. Construction and Demolition Debris Disposal Facility
3. Waste Tire Storage & Processing Facility

Replaces Permit No.: S025-096551

This permit contains compliance items summarized in Attachment 1 that shall be complied with and submitted to the Department by the dates noted. If the compliance dates are not met and submittals are not received by the Department on the dates noted, enforcement action will be initiated.

SPECIFIC CONDITIONS:

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1. This site includes operation of a Class I landfill, construction and demolition debris disposal facility, and waste tire storage and processing, and shall be operated in accordance with all applicable requirements of Chapters 17-4, 17-25, 17-522, 17-550 17-701, and 17-711, Florida Administrative Code. This permit is valid for operation of the Class I landfill and related facilities in accordance with the reports and other information, and the October 1993 plans submitted by Wade-Trim to the FDEP, and in accordance with all applicable requirements of Department rules. Site improvements approved as part of this permit shall be completed within sixty (60) days after issuance of this permit. Any construction not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate.
2. Permits shall be modified in accordance with the requirements of Rule 17-4.080, F.A.C. A modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review by the Department is considered a substantial modification.
3. Within sixty (60) days after all specified construction has been completed and before use, the owner or operator shall submit to the Department a certification of construction completion, Form 17-701.900(2), signed and sealed by a professional engineer, and record drawings showing all modifications to verify conformance with the plans and specifications, and shall arrange for Department representatives to inspect the facility in the company of the permittee, the engineer, and the proposed facility operator. The new systems shall not be operated until the certification has been submitted and approved, all documentation required as a condition of the permit has been submitted, and a facility inspection by Department personnel has been conducted.
4. The prohibitions of the FAC Rule 17-701.300 shall not be violated.
5. Permits shall be renewed at least every five years. Applicants for permit renewal shall demonstrate how they will comply with any applicable new or revised laws or rules relating to construction, operation, or closure of landfills. Closure plans shall be updated at the time of permit renewal to reflect changes in closure design, long-term care requirements, and financial responsibility documentation. Facility information that was submitted to the Department to support the expiring permit, and which is still valid, does not need to be re-submitted for permit renewal. The permit renewal application shall list and reaffirm that the information is still valid.
6. A copy of the Department approved permit, revised construction drawings, operational plan, construction reports and record drawings, and supporting information shall be kept at the facility at all times for reference and inspections.

SPECIFIC CONDITIONS:

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7. Landfills shall be designed, constructed, operated, maintained, closed, and monitored throughout its design period to control the movement of waste and waste constituents into the environment so that ground water and surface water quality standards and criteria of Chapters 17-3 and 17-302, F.A.C., will not be violated.
8. Landfills or solid waste disposal units shall not be located in the 100-year floodplain where it will restrict the flow of the 100-year flood, reduce the temporary water storage capacity of the floodplain unless compensating storage is provided, or result in a washout of solid waste.
9. All landfills shall be designed so that solid waste disposal units will be constructed and subsequently closed at planned intervals throughout the design period of the landfill.
10. All solid waste disposed of in the Class I disposal area must be covered with at least 6 inches of compacted earth or other suitable material, as approved by the Department, at the end of each working day. An intermediate cover of one (1) foot of compacted earth in addition to the six (6) inch initial cover shall be applied within seven (7) days of cell completion at all landfills if final cover or an additional lift is not to be applied within 180 days of cell completion. Top gradients of intermediate cover shall be designed to prevent ponding or low spots and minimize erosion. Portions of the landfill which have been filled with waste to the extent of designed dimensions shall be closed in accordance with all appropriate requirements of Department rules.
11. The Construction and Demolition Debris (C & D Debris) disposal area shall be limited to those items identified in F.A.C. Rule 17-701.200(17). The permittee shall not allow the disposal of "Garbage" in the C&D debris disposal area. The C & D Debris disposal area shall be operated in accordance with FAC Rules 17-701.730 and 17-701.803. Solid waste other than construction and demolition debris accepted at the Construction and Demolition Debris disposal area, shall be segregated, and recycled or disposed of in accordance with Department rules.
12. Waste tires and processed tires at the waste tire area shall be stored in accordance with the waste tire site requirements in Rule 17-711.510, F.A.C.
13. Storage at the waste tire area is limited to 1000 waste tires. At least 75 percent of both the waste tires and processed tires that are delivered to or are contained on the site of the waste tire area at the beginning of each calendar year must be removed for processing and disposal or recycling from the area during the year. An annual report summarizing these operations shall be submitted to the Department by March 1 of each year, pursuant to F.A.C. Rule 17-711.530(4).

SPECIFIC CONDITIONS:

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14. This facility shall have at least one trained operator at the landfill during all times when the landfill receives waste. Trained operators are those who have satisfied the requirements of Chapter 17-703, F.A.C. All landfills shall have at least one spotter at each working face at all times when the landfill receives waste to detect unauthorized wastes. The owner or operator shall implement a load checking program to detect and discourage attempts to dispose of unauthorized wastes at the landfill. The load checking program shall consist of the minimum requirements specified in FDER Rule 17-701.500(6) which includes examining at least three random loads of solid waste received each week by the landfill operator.

15. The landfill owner or operator shall have an operational plan that provides written, detailed instructions for the daily operation of the landfill. The operation plan shall be kept at or near the landfill facility and shall be accessible to landfill operators. The operation plan shall be revised if operational procedures change. The plan shall include procedures for all the items listed in FDER Rule 17-701.500(2). A schedule for routine maintenance of the leachate collection and removal system shall be established to ensure operation of the system. The maintenance schedule shall be a part of the facility operation plan. Operating records shall be maintained as required by FDER Rule 17-701.500(3).

16. The owner or operator of the facility shall weigh all solid waste as it is received. Landfill operators shall record, in tons per day, the amount of solid waste received and shall estimate the amount of wastes listed in FDER Rule 17-701.500(4)(b). Waste reports shall be compiled monthly, and copies shall be submitted to the Department quarterly.

17. The landfill operator is responsible for leachate level monitoring, sampling, analysis of the landfill leachate, and for providing copies of the leachate analysis to the Department. The landfill operator shall have a prepared contingency plan to handle leachate collection, removal, and treatment problems such as those caused by interruptions of discharges to a treatment plant. Quantities of leachate collected by the leachate collection and removal system shall be recorded in gallons per day before on-site treatment or transport off-site. A rain gauge shall be installed, operated, and maintained to record daily precipitation at the landfill. All rain amounts greater than one tenth of an inch shall be recorded. Daily volumes of leachate pumped from the dewatering ditch will be recorded. Daily rainfall and leachate pump volume data will be submitted to the Department monthly. Complete yearly leachate/water balance data to demonstrate continuous compliance with Department rules shall be submitted to the Department annually.

18. The operating authority shall be responsible for the control of odors and fugitive particulates arising from this operation. Such control shall minimize the creation of these nuisance conditions on nearby property. Complaints received from the general public and confirmed by Department personnel upon site inspection shall constitute a nuisance condition and the permittee must take immediate corrective action to abate the nuisance.

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SPECIFIC CONDITIONS:

19. Landfills that receive biodegradable wastes shall have a gas monitoring and control system designed to prevent explosions and fires, and to minimize off-site odors and damage to vegetation. The owners or operators shall implement a routine gas monitoring program to ensure that the standards of FDER Rule 17-701.400(10) are met. All monitoring points shall be sampled and the results reported to the Department quarterly. If methane gas levels exceed the lower explosive limits specified in FDER Rule 17-701.400(10)(a), the owner or operator shall:

- a. Immediately take all necessary steps to ensure protection of human health and notify the Department;
- b. Within 7 days of detection, submit to the Department for approval a remediation plan for the methane gas releases. The plan shall describe the nature and extent of the problem and the proposed remedy. The remedy shall be completed within 60 days of detection unless otherwise approved by the Department.

20. The permittee shall not accept hazardous waste or any hazardous substance at this site. Hazardous waste is a solid waste identified by the Department as a hazardous waste in Chapter 17-730, Florida Administrative Code. Hazardous substances are those defined in Section 403.703, Florida Statute or in any other applicable state or federal law or administrative rule.

21. The disposal or control of any "special wastes" at the site shall be in accordance with FAC Rules 17-701.300 and 17-701.520, and any other applicable Department rules, to protect the public safety, health and welfare. "Special Wastes" means solid wastes that can require special handling and management, including but not limited to white goods, waste tires, used oil, mattresses, furniture, lead-acid batteries, asbestos, and biological wastes.

22. The permittee shall maintain a program which prohibits the disposal of bulk industrial wastes which operation personnel reasonably believe to either be or contain hazardous waste, without first obtaining a chemical analysis of the material showing the waste to be non-hazardous. The chemical analysis of any such material so placed in the landfill, along with the customers name and date of disposal, shall be kept on file by the permittee on-site.

23. Open burning of solid waste is prohibited except in accordance with Rule 17-701.520(2), F.A.C. Controlled burning of solid waste is prohibited at this site except for clean vegetative and wood wastes which may be burned in a permitted air curtain incinerator in accordance with Rule 17-2.500(1)(e), F.A.C. Any accidental fires which require longer than one (1) hour to extinguish must be promptly reported to the Department of Environmental Protection.

SPECIFIC CONDITIONS:

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24. All solid waste, recovered materials or residues handled at the facility shall be stored in a manner so as not to constitute a fire or safety hazard or a sanitary nuisance, and shall comply with all applicable local and state regulations. Recovered resources resulting from the facility and which may be offered for sale shall comply with applicable regulations of all appropriate state agencies.

25. Yard trash that is delivered to the site of the yard trash mulching area shall be processed within thirty (30) days and removed for disposal or recycling from the area within twelve (12) months of date delivered. A report summarizing these operations shall be submitted annually by March 1 of each year to the Solid Waste Section, Southwest District Office. Quarterly reports of yard waste are also acceptable to the Department.

26. The owner or operator shall control mosquitoes and rodents or request such control measures from the local mosquito control office, so as to protect the public health and welfare.

27. The permittee shall properly maintain the site. This includes erosion control, maintenance of grass cover, and prevention of ponding, leachate control system maintenance, and gas venting system repairs.

28. In the event of damage to any portion of the landfill site facilities regulated by this permit or failure of any portion of the landfill systems, the permittee shall immediately (within 24 hours) notify the Department of Environmental Protection explaining such occurrence and remedial measures to be taken and time needed for repairs. Written detailed notification shall be submitted to the Department within seven (7) days following the occurrence.

29. A trained supervisor or foreman shall be responsible for maintaining the facility in an orderly, safe, and sanitary manner. Sufficient personnel shall be employed to adequately operate the facility in compliance with this permit.

30. The site shall continue to have a surface water management system designed, constructed, operated, and maintained to prevent surface water from running on to waste filled areas, and a stormwater runoff control system designed, constructed, operated, and maintained to collect and control stormwater to meet the requirements of Chapter 17-25, F.A.C., and the requirements for management and storage of surface water in accordance with Chapter 373, F.S.

31. Stormwater management systems shall be designed to avoid mixing of stormwater with leachate. Stormwater or other surface water which comes into contact with the landfilled solid waste or mixes with leachate shall be considered leachate.

SPECIFIC CONDITIONS:

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32. To prevent unauthorized waste disposal, access to and use of the facility shall be controlled by fencing, gates, or other barriers, as well as signs and facility personnel.

33. In addition to records and reporting required, the landfill owner or operator shall keep records of all information used to develop or support the permit applications and any supplemental information pertaining to construction of the landfill throughout the design period. Records pertaining to the operation of the landfill shall be kept for the design period of the landfill. Records of all monitoring information, including calibration and maintenance records, all original chart recordings for continuous monitoring instrumentation, and copies of all reports required by permit, shall be kept for at least ten years. Background water quality records shall be kept for the design period of the landfill.

34. Within ninety (90) days after issuance of this permit, the water quality monitoring system shall be installed in accordance with the Wade-Trim/Mevers & Associates Water Quality & Leachate Monitoring Plan dated July 21, 1993. All sampling and analysis activities shall be performed by organizations that have Comprehensive Quality Assurance Plans approved in accordance with Rule 17-160.300(8), F.A.C.

35. The groundwater monitoring wells are located as per 3/25/87 submittal, as follows:

<u>Well Number</u>	<u>Aquifer</u>	<u>Location</u>
MW-1	Surficial	As per Permit Figure 1
MW-2	Surficial	As per Permit Figure 1
MW-3	Surficial	As per Permit Figure 1
MW-4	Surficial (background)	As per Permit Figure 1
MW-5	Surficial	As per Permit Figure 1
MW-6	Surficial	As per Permit Figure 1
MW-7	Surficial	As per Permit Figure 1

All wells are to be clearly labelled and easily visible at all times. All wells are considered to be detection wells, with the exception of the background well, MW-4.

Water levels shall be measured quarterly in all site piezometers, P1 through P14, for evaluation of the leachate/groundwater elevations in the landfill and leachate sprayfield. The locations of these piezometers are on Wade-Trim's August 2, 1993 Improvement Site Plan, Sheet 4 of 6. A reduced portion of this plan is presented as Figure 2 of this permit.

SPECIFIC CONDITIONS:

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36. Pursuant to F.A.C. Rule 17-522.410, the zone of discharge shall extend horizontally to the property line or one hundred (100) feet beyond the waste management area, whichever is less, and vertically to the base of the surficial aquifer. The permittee shall ensure that the water quality standards for Class G-II groundwaters will not be exceeded at the boundary of the zone of discharge according to Rules 17-520.400 and 17-520.420, F.A.C.

37. Leachate shall be sampled from the leachate collection system prior to entering the dewatering ditch and analyzed quarterly for the indicator parameters listed as follows:

Leachate indicator parameters:

Field parameters

Specific conductivity
pH
Dissolved oxygen
Colors, sheens

Laboratory parameters

Ammonium (NH₄)
Arsenic
Bicarbonate
Cadmium
Chlorides
Chromium
Iron
Lead
Mercury
Nitrate
Sodium
Total dissolved solids (TDS)
Total organic carbon (TOC)
EPA 601/602 Analytes

In addition, leachate shall be sampled and analyzed annually for the parameters listed in 40 CFR Part 258, Appendix II. Analytical results shall be submitted to the Solid Waste Section, Department of Environmental Protection, Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318 by the 15th of the month immediately following the end of the quarter. For landfills which are receiving waste, if this annual analysis indicates that a contaminant listed in 40 CFR 261.24 exceeds the regulatory level listed therein, the permittee shall initiate a monthly sampling and analysis program. If in any three consecutive months the same listed contaminant exceeds the regulatory level, the permittee shall, within 90 days, initiate a program designed to identify the source and reduce the presence of the contaminant in the leachate so that it no longer exceeds the regulatory level. This program may include additional monitoring of waste received and additional up-front separation of waste materials. Any leachate which is not recirculated or taken to a permitted domestic wastewater treatment facility shall be treated or managed so that no contaminant exceeds the regulatory level. If in any three consecutive months no listed contaminant is found to exceed the regulatory level, the permittee may discontinue the monthly sampling and analysis and return to a routine sampling schedule.

SPECIFIC CONDITIONS:

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38. All piezometers listed in Specific Condition #36 shall be constructed in accordance with the construction procedures of the July 21, 1993 Water Quality & Leachate Monitoring Plan submitted July 21, 1993 to the Department, and in accordance with best geological practices. In addition, all piezometers shall have an impermeable barrier at or near ground surface to prevent surface water infiltration to the piezometer. Within ninety (90) days after piezometer installation, the following information shall be submitted to the Solid Waste Section of the Southwest District Office of the Department:

Piezometer identification
Latitude/Longitude
Screen Type and slot size
Screen length
Piezometer seal type and thickness
Elevation at top of piezometer
Elevation at land surface

Lithologic Log
Total depth of piezometer
Casing diameter
Casing type and length

39. Within ninety (90) days after piezometer installation, a surveyed drawing shall be submitted showing the location of all monitor wells (active and abandoned) and piezometers in degrees, minutes and seconds of latitude and longitude, and the elevation of the top of the well casing to the nearest .01 foot, National Geodetic Vertical Datum. All surface water monitoring stations shall be surveyed in degrees, minutes and seconds of latitude and longitude. The surveyed drawing shall include the monitor well and piezometer identification number, location and elevation of all permanent benchmark(s) and/or corner monument marker(s) at the site. The survey shall be conducted by a registered Florida land surveyor.

40. All field and laboratory work done in connection with groundwater monitoring shall be conducted by a firm possessing a Generic Quality Assurance Plan or a Comprehensive Quality Assurance Plan approved by the Department in accordance with Chapter 17-160, F.A.C. The Quality Assurance Plan must specifically address the sampling and analytical work that is required by the permit. Documentation of an approved Quality Assurance Plan shall be submitted to the Department annually with the 1st quarterly groundwater sampling report for each year. Documentation shall include the completed signature page and the table of contents of the approved plan. The approved Quality Assurance Plan shall be followed by all persons collecting or analyzing samples related to this permit.

SPECIFIC CONDITIONS:

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41. All detection wells and background wells shall be sampled and analyzed **quarterly** for the ground water indicator parameters listed in 17-701.510(8)(a) as follows:

Ground water indicator parameters:

Field parameters

Static water level in wells
before purging
Specific conductivity
pH
Dissolved oxygen
Turbidity
Colors, sheens
Temperature

Laboratory parameters

Ammonium (NH₄)
Arsenic
Bicarbonate
Cadmium
Chlorides
Chromium
Iron
Lead
Mercury
Nitrate
Sodium
Total dissolved solids (TDS)
Total organic carbon (TOC)
EPA 601/602 Analytes

Compliance with groundwater standards and/or criteria shall be determined by analysis of unfiltered groundwater samples. Additional samples, wells, and parameters may be required based upon subsequent analysis.

42. In accordance with 17-701.510(7), if at any time background groundwater standards are exceeded in the detection wells, the permittee has **fifteen (15) days** after the sampling data is received in which to resample the monitor well(s) to verify the original analysis. Should the permittee choose not to resample, the Department will consider the water quality analysis as representative of current groundwater conditions at the facility. If the exceedance of groundwater standards in the detection wells is confirmed, then assessment monitoring shall be initiated as detailed in 17-701.510(7).

43. If any monitoring well becomes damaged or inoperable, the permittee shall notify the Department of Environmental Protection **immediately** (within 24 hours). A detailed written report shall follow within **seven (7) days**. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent the recurrence. All monitoring well design and replacement shall be approved by the Department prior to installation and may require a permit modification.

SPECIFIC CONDITIONS:

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44. The field testing, sample collection and preservation and laboratory testing, including quality control procedures, shall be in accordance with methods approved by the Department in accordance with Chapters 17-4.246 and 17-3.401, F.A.C. Approved methods are published by the Department or as published in Standards Methods, A.S.T.M., or EPA methods shall be used. Approved methods for chemical analyses are summarized in the Federal Register, December 1, 1976 (41FR52780) except that turbidity shall be measured by the Nephelometric Method.

45. All groundwater monitoring analysis shall be reported on the Department Quarterly Report on Groundwater Monitoring Form 17-1.216(2). The permittee shall submit to the Department the results of the groundwater monitoring well water quality analysis no later than the fifteenth (15) day of the month immediately following the end of each quarter. The results of the piezometer groundwater measurements shall be included in this report. The results shall be sent to the Solid Waste Section, Department of Environmental Protection, Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8313.

46. Annually and prior to ninety (90) days before the expiration of the Department Permit, the permittee shall submit an evaluation of the Groundwater Monitoring Plan as per F.A.C. Rule 17-701.510(9)(b). The evaluation shall include all applicable information as required by F.A.C. Rule 17-701.510(9), and shall include an assessment of the effectiveness of the existing landfill design and operation as related to the prevention of groundwater contamination. Any groundwater contamination that may exist, shall be addressed as part of a groundwater investigation for the landfill assessment. The Groundwater Monitoring Plan shall be adequate to monitor any modifications to the existing landfill site including but not limited to closure.

47. The permittee shall provide financial assurance for this landfill site in accordance with F.A.C. Rule 17-701.630. All cost estimates for closure and long-term care shall be adjusted and submitted annually to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318. Proof that the financial assurance has been funded adequately shall be submitted annually to the FDEP District Office and to: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

48. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.), Florida Statutes, applicable portions of permit applications and supporting documents which are submitted to the Department for public record shall be signed and sealed by the professional(s) who prepared or approved them.

PERMITTEE: Hardee County BCC
Hardee County Solid Waste Disposal Facility

PERMIT NO.: SO25-214306

SPECIFIC CONDITIONS:

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49. A closure permit application shall be required ninety (90) days prior to final acceptance of waste for each landfill portion of the site. The final cover shall be placed over the entire surface of each completed portion of the filled areas within one hundred and eighty (180) days after final waste deposit date for each area.

50. Prior to 90 days before the expiration of the Department Permit, the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules.

51. The permittee shall be aware of and operate under the attached "General Conditions". General Conditions are binding upon the permittee and enforceable pursuant to Chapter 403, Florida Statutes.

52. By acceptance of this Permit, the permittee certifies that he/she has read and understands the obligations imposed by the Specific and General Conditions contained herein and also including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.

Executed in Tampa, Florida

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Richard D. Garrity, Ph.D.
Director of District Management
Southwest District

ATTACHMENT 1

**PERMITTEE: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS
HARDEE COUNTY SOLID WASTE DISPOSAL FACILITY**

PERMIT NO. : S025-214306

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SPECIFIC CONDITION	SUBMITTAL DUE DATE	REQUIRED ITEM
1.	60 days after issuance of permit	Site improvements completed
3.	60 days following construction	Certification and record drawings
13.	March 1/Annually	Waste tire report
16.	Quarterly	Waste quantity report
17.	Monthly	Rainfall and leachate volume data
17.	Annually	Leachate/water balance data
19	Quarterly	Gas monitoring results
25.	Annually	Yard trash report
34.	90 days after issuance of permit	Water quality monitoring system installed
37.	Quarterly	Leachate sampled/analyzed
37.	Annually	Leachate sampled/analyzed 40 CFR Part 258, Appendix II
38.	90 days after installation	Piezometer construction data
39.	90 days after installation	Survey of wells and piezometers
40.	Annually with 1st quarterly report	Documentation of QA plan approval
41.	Quarterly	Wells sampled/analyzed
45.	Quarterly	Analysis results
46.	Annually & 90 days prior to permit expiration	Evaluation of GWM Plan

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SPECIFIC CONDITION	SUBMITTAL DUE DATE	REQUIRED ITEM
47.	Annually	Updated cost estimates for closure and long-term care
47.	Annually	Proof of funding for financial assurance
49.	90 days prior to final acceptance of waste	Closure Permit Application
50.	90 days prior to permit expiration	Apply for permit renewal

Permit Figure 1.

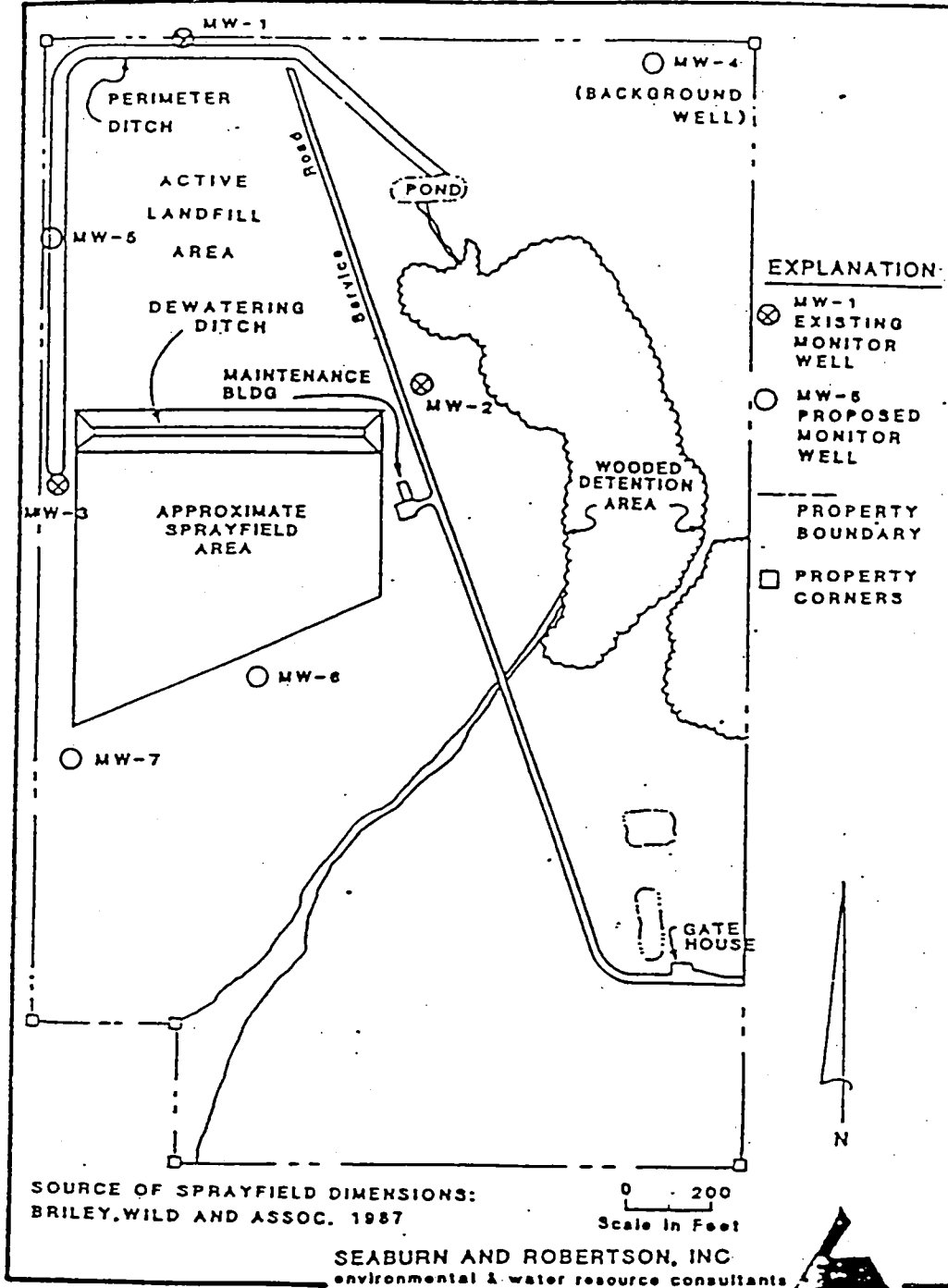


FIGURE 1.- LOCATION OF MONITOR WELLS.

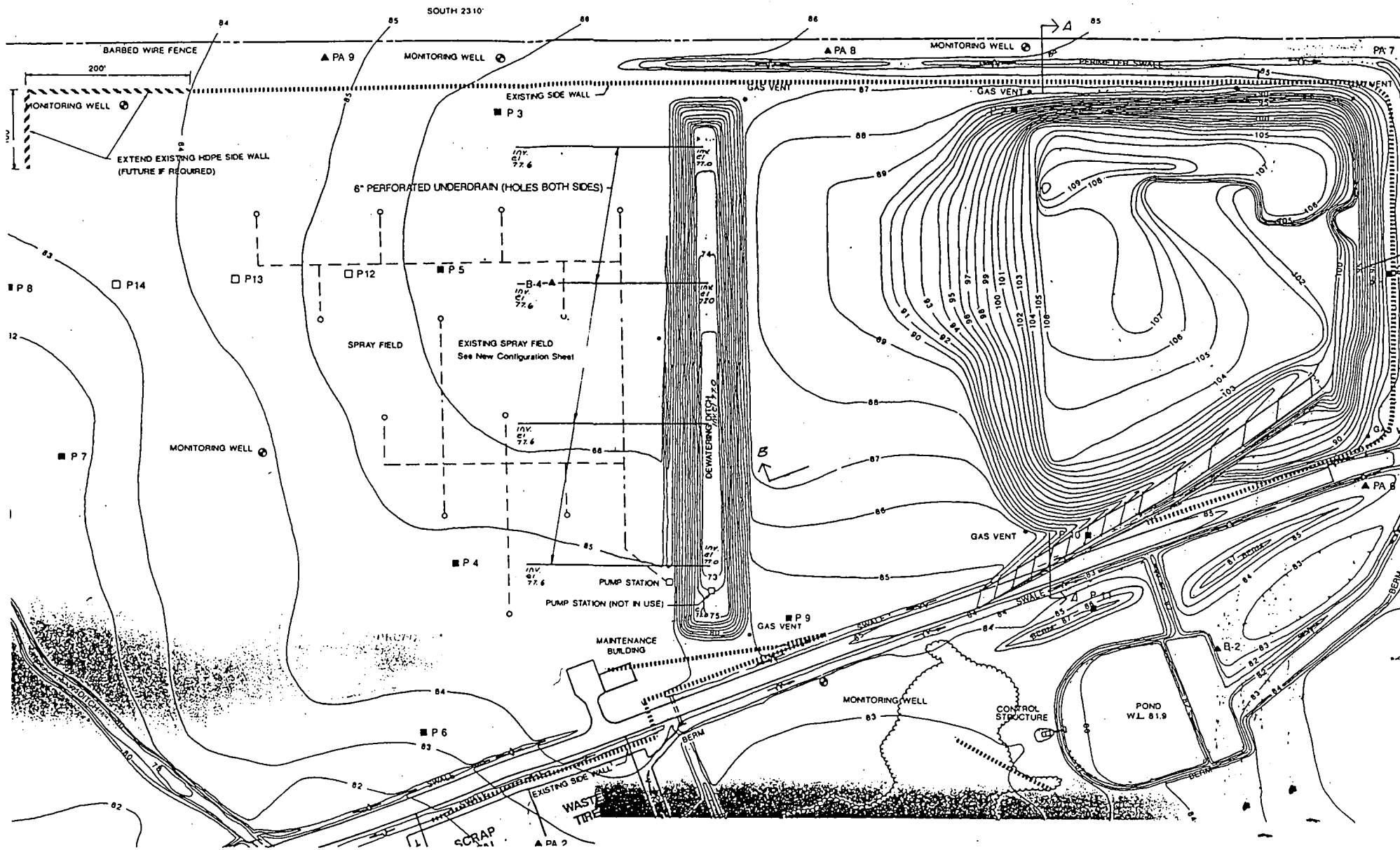


Figure 2. Improvement Site Plan (per 8/2/93 Wade-Trim Sheet 4/6)

ATTACHMENT - GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

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

3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.

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

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

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

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

- (a) Have access to and copy any records that must be kept under conditions of the permit;
- (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and

- (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

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

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

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

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

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

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

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

13. This permit also constitutes:

- () Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- () Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
- () Compliance with New Source Performance Standards

14. The permittee shall comply with the following:

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

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



Wade-Trim

4919 Memorial Highway, Suite 200
Tampa, FL 33634
(813) 882-8366 • FAX: (813) 884-5990

RECEIVED
OCT 13 1993

Letter of Transmittal

WT189-01

Department of Environmental Protection
SOUTHWEST DISTRICT
BY If transmitted items are not as noted, notify writer immediately.

Date: 10/12/93

To: FDEP Attn: Kim Ford

3804 Coconut Palm Drive
Tampa FL 33619

RE: Hardee County Land Fills

- Transmitted:
- change order
 - copy of letter
 - drawings
 - prints
 - product literature
 - samples
 - shop drawings
 - specs
 - tracings
 - disks
 - work orders
 - plans
 - other _____

Copies	Date or No.	Description
2	10/12/92	2 sealed sets of Plans

- For your:
- action
 - approval
 - information
 - records/files
 - review & comment
 - use
 - signature

Remarks: _____

Copy to: _____
By: [Signature]

Job No. _____

25-93 11:40 ID: D E R TAMPA

TEL NO: 813-744-6100

#144 P02

WAIVER OF 90 DAY TIME LIMIT
UNDER SECTIONS 120.60(2) and 403.0876, FLORIDA STATUTES

License (Permit, Certification) Application No. 5025-214306
WT-25-209268, 5025-212896

Applicant's Name: HANDLER COUNTY

With regard to the above referenced application, the applicant hereby with full knowledge and understanding of applicant's rights under Sections 120.60(2) and 403.0876, Florida Statutes, waives the right to have the application approved or denied by the State of Florida Department of Environmental Regulation within the 90 day time period prescribed by law. Said waiver is made freely and voluntarily by the applicant, with full knowledge, and without any pressure or coercion by anyone employed by the State of Florida Department of Environmental Regulation.

This waiver shall expire on the 20 day of October 1993.

The undersigned is authorized to make this waiver on behalf of the applicant.

*STEVE L. WAZIT, D.E.
WADE - TAMPA
4919 MEMORIAL HIGHWAY
SUITE 200
TAMPA FL*

[Signature]
Signature

GARY ODEN, COUNTY MANAGER 9/30/93
Name: (Please Type or Print)

**HARDEE COUNTY
BOARD OF COUNTY COMMISSIONERS**

Room A-204, Courthouse Annex
412 West Orange Street
Wauchula, Florida 33873-2867
(813) 773-6952 • (813) 773-9430 • FAX (813) 773-0958

MINOR L. BRYANT
District I

BENNY W. ALBRITTON
District II

TED HITE
District III

ROYCE TYSON, JR.
District IV

WALTER OLLIFF, JR.
District V

GARY ODEN
County Manager

GARY A. VORBECK
County Attorney

FAX TRANSMITTAL

DATE: 9-30-93
TIME:

TO:

Kim Ford

FROM:

J. R. Prestige

COPIES TO:

SUBJECT:

WAIVER FORM

FAX NUMBER:

744-6090

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