

FDEP

3804 Coconut Palm Drive, Tampa, FL 33619-8318

FAX

Date:

~~FAXED~~

Number of pages including cover sheet:

5

To:

LARRY ROIZ

SCS

Phone:

626080

Fax phone:

6236757

CC:

From:

Jim Ford

Phone:

(813) 744-6100

x 382

Fax phone:

(813) 744-6125

REMARKS:

☐ Urgent

☐ For your review

☐ Reply ASAP

☐ Please comment

SE LINER BEING REPAIR

OK - SUBJECT TO FOLLOWING:

① MAX PERMEABILITY OF CLAY 1×10^{-5} cm/sec,

② WILL TEST PERMEABILITY LAST LIFT OF
LOWEN 3'1/2"

③ WILL DOCUMENT ALL WORK WITH PHOTOS,

④ WILL NOTE REPAIR AS PART OF CERTIFICATION
FOR PHASE V ACTIVATION.

THX
Jim

SCS ENGINEERS

March 24, 1999
File No. 0995029.14

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

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

MAR 24 1999

SOUTHWEST DISTRICT
TAMPA

Subject: Phase V Activation Field Change
Southeast County Landfill, Hillsborough County, Florida

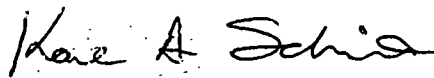
Dear Mr. Ford:

On behalf of the Hillsborough County Solid Waste Management Department (HCSWMD), SCS Engineers (SCS) is pleased to provide the following information concerning Phase V activation. During the construction of berm trench No. 9, it became apparent that an area of the separation berm between Phases III and VI was not adequately protected to isolate Phase VI as intended in the Leachate Management Plan (LMP). As shown on Figures 1 through 3, the HCSWMD will construct a clay berm to isolate Phase VI. The proposed clay berm will prevent any Phase III leachate from entering Phase VI through the separation berm.

Please review the proposed clay berm construction details and provide comments or please call if you have any questions.

Very truly yours,


Larry E. Ruiz, Assoc. AIA
Project Manager

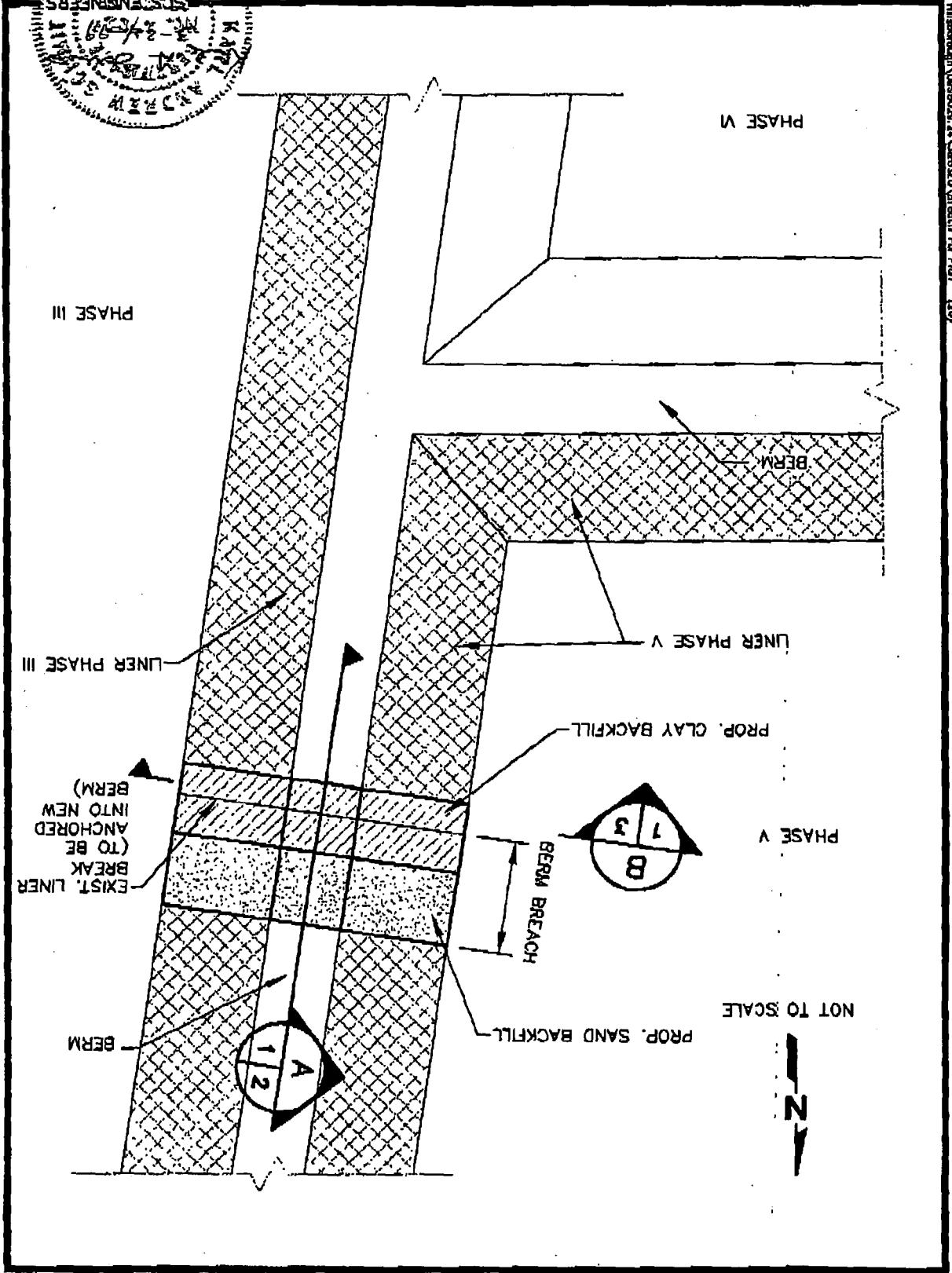

Karl A. Schmit, P.E.
Project Engineer
SCS ENGINEERS

LER/KAS:ler

cc: Patricia V. Berry, HCSWMD
Paul Schipfer, EPC



Figure 1. Berm Breach Repair Plan.



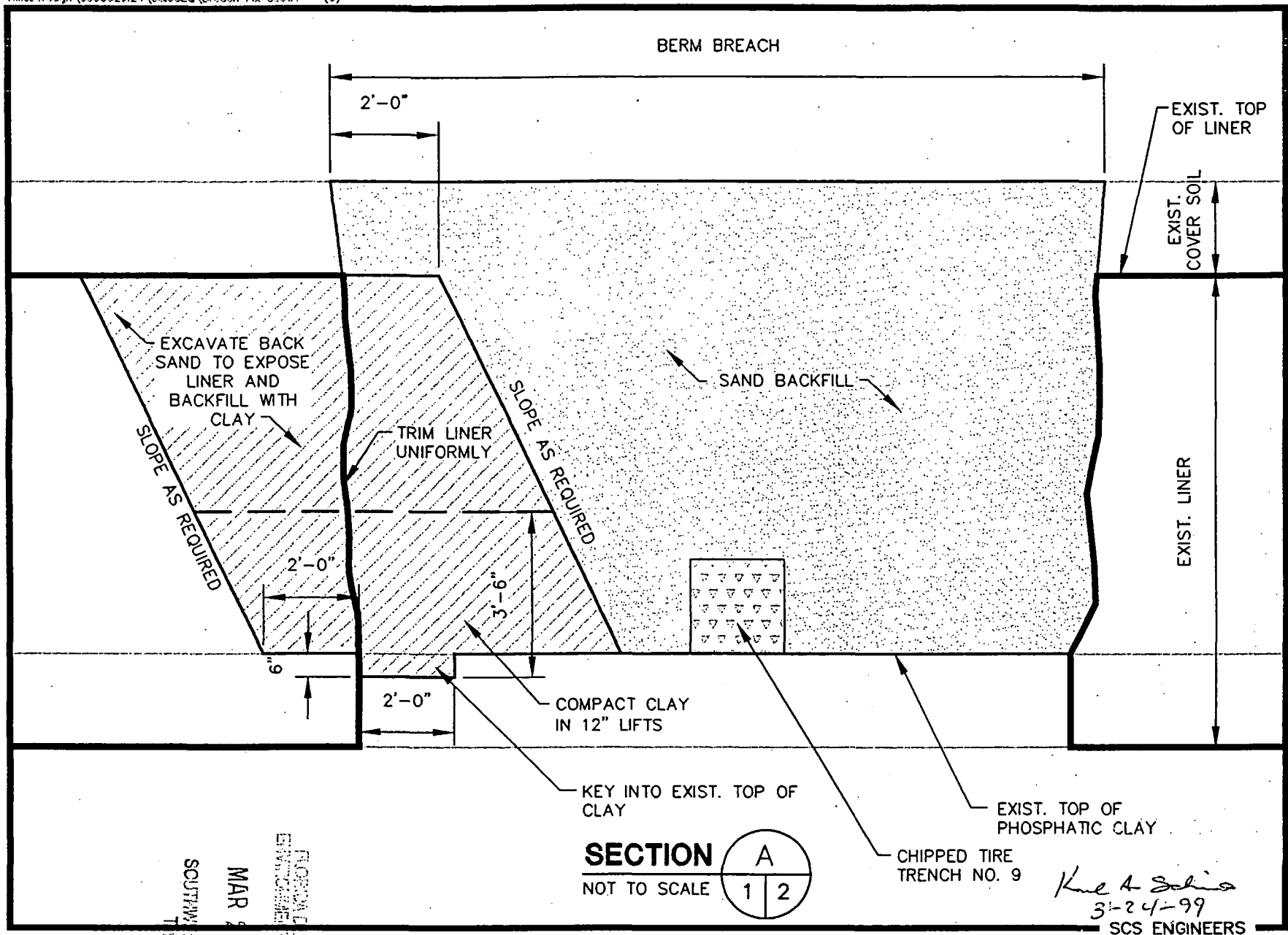


Figure 2. Berm Breach Repair Section.

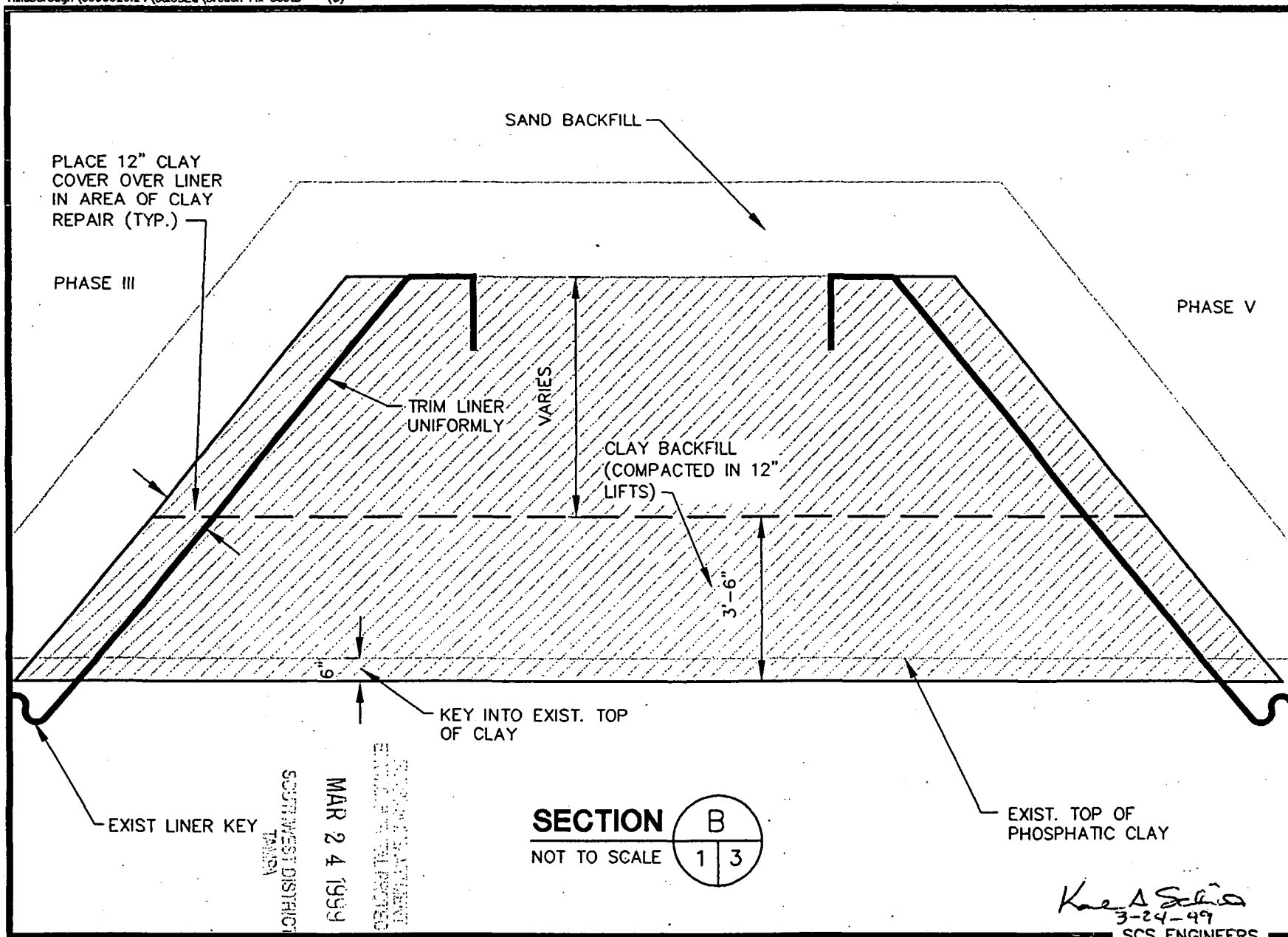


Figure 3. Berm Breach Repair Section.

Transmit Confirmation Report

No. : 014
Receiver : 9-623-6757
Transmitter : WASTE MGT TAMPA SWDIST
Date : Mar 24 99 14:51
Time : 02'33
Mode : Norm
Pages : 05
Result : OK

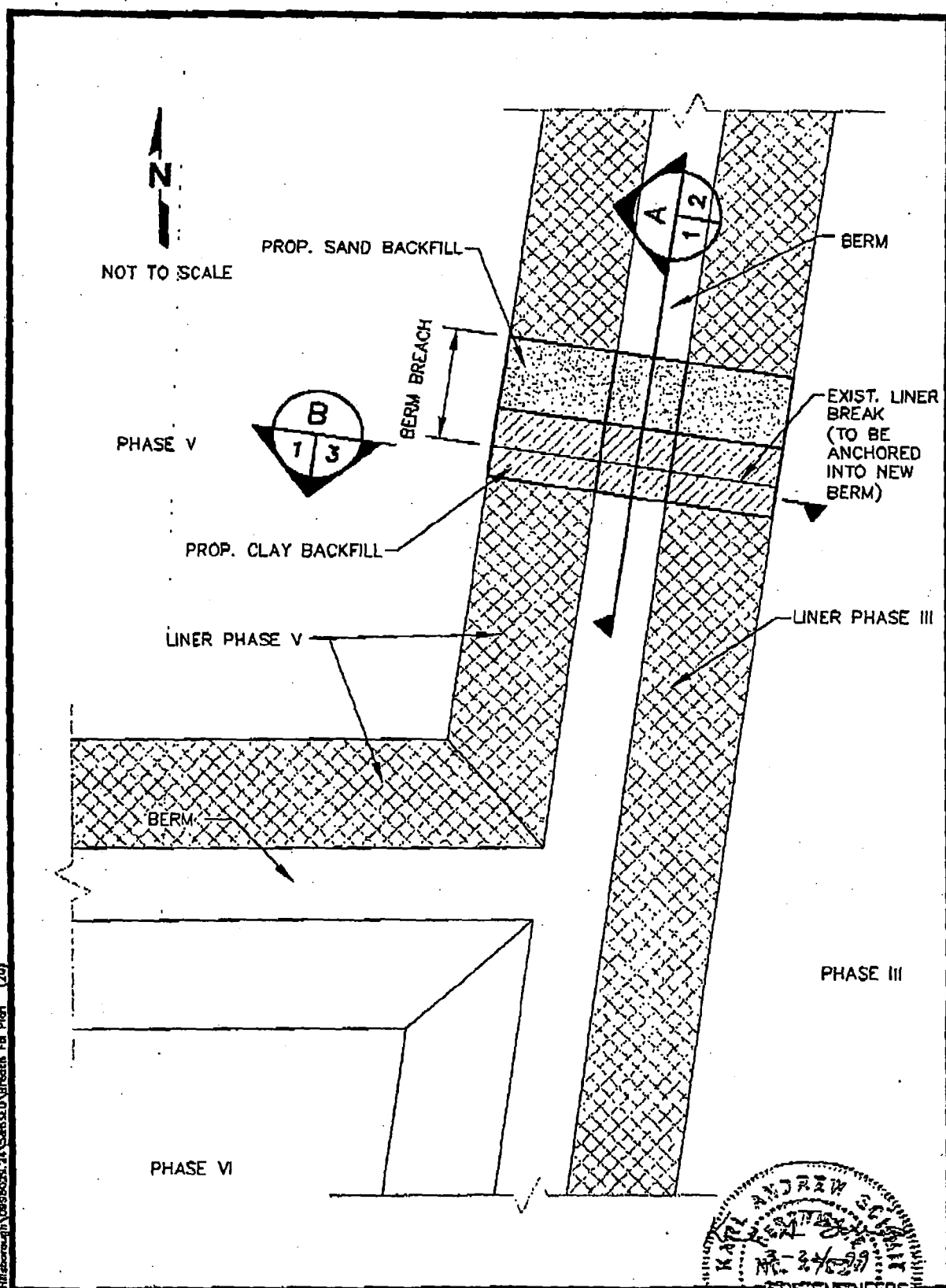


Figure 1. Berm Breach Repair Plan.

SCS ENGINEERS

March 24, 1999
File No. 0995029.14

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

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

MAR 24 1999

SOUTHWEST DISTRICT
TAMPA

Subject: Phase V Activation Field Change
Southeast County Landfill, Hillsborough County, Florida

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Please review the proposed clay berm construction details and provide comments or please call if you have any questions.

Very truly yours,

Larry E. Ruiz
Larry E. Ruiz, Assoc. AIA
Project Manager

Karl A. Schmitz
Karl A. Schmitz, P.E.
Project Engineer
SCS ENGINEERS

LER/KAS:ler

cc: Patricia V. Berry, HCSWMD
Paul Schipfer, EPC



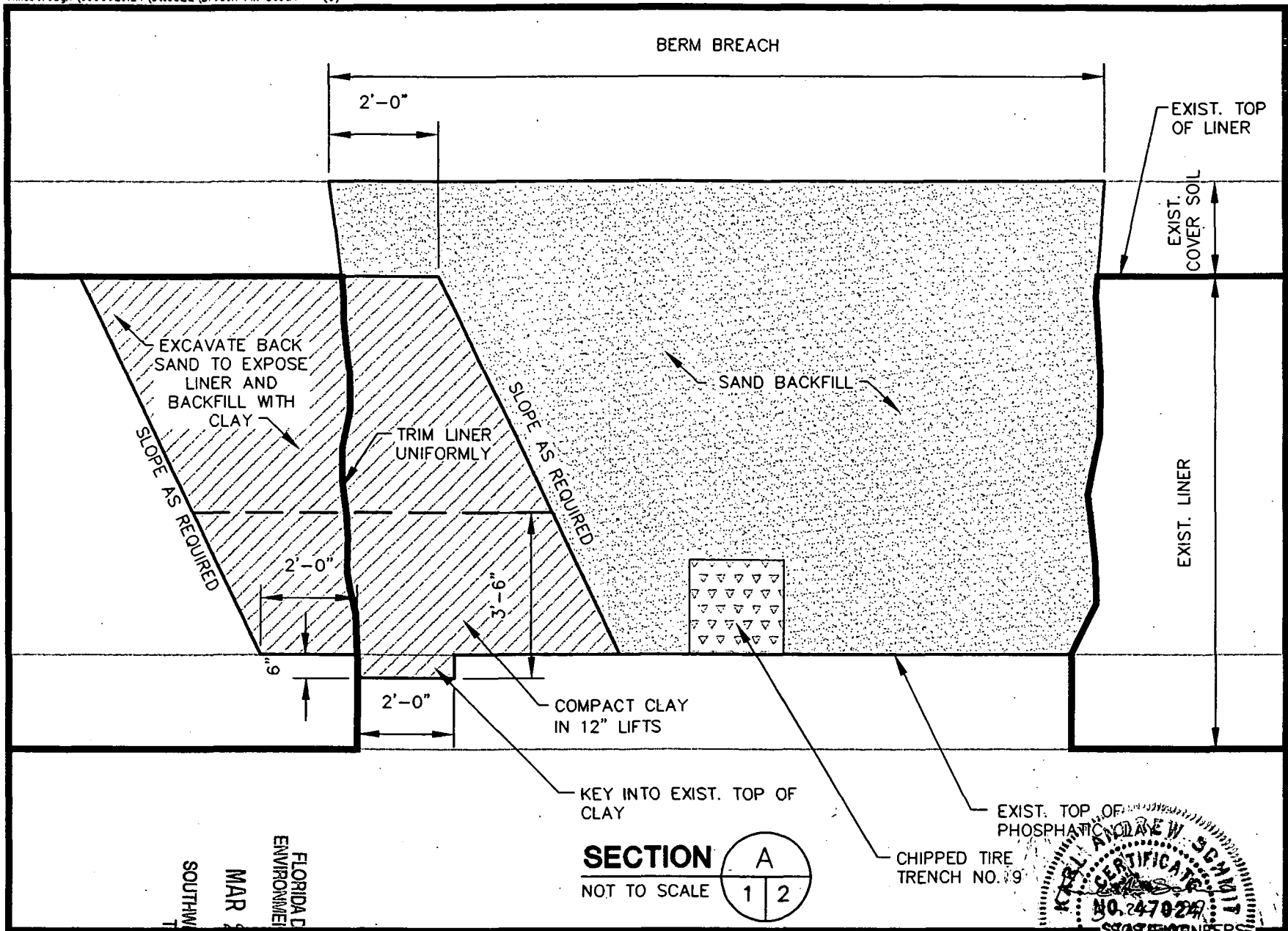


Figure 2. Berm Breach Repair Section.

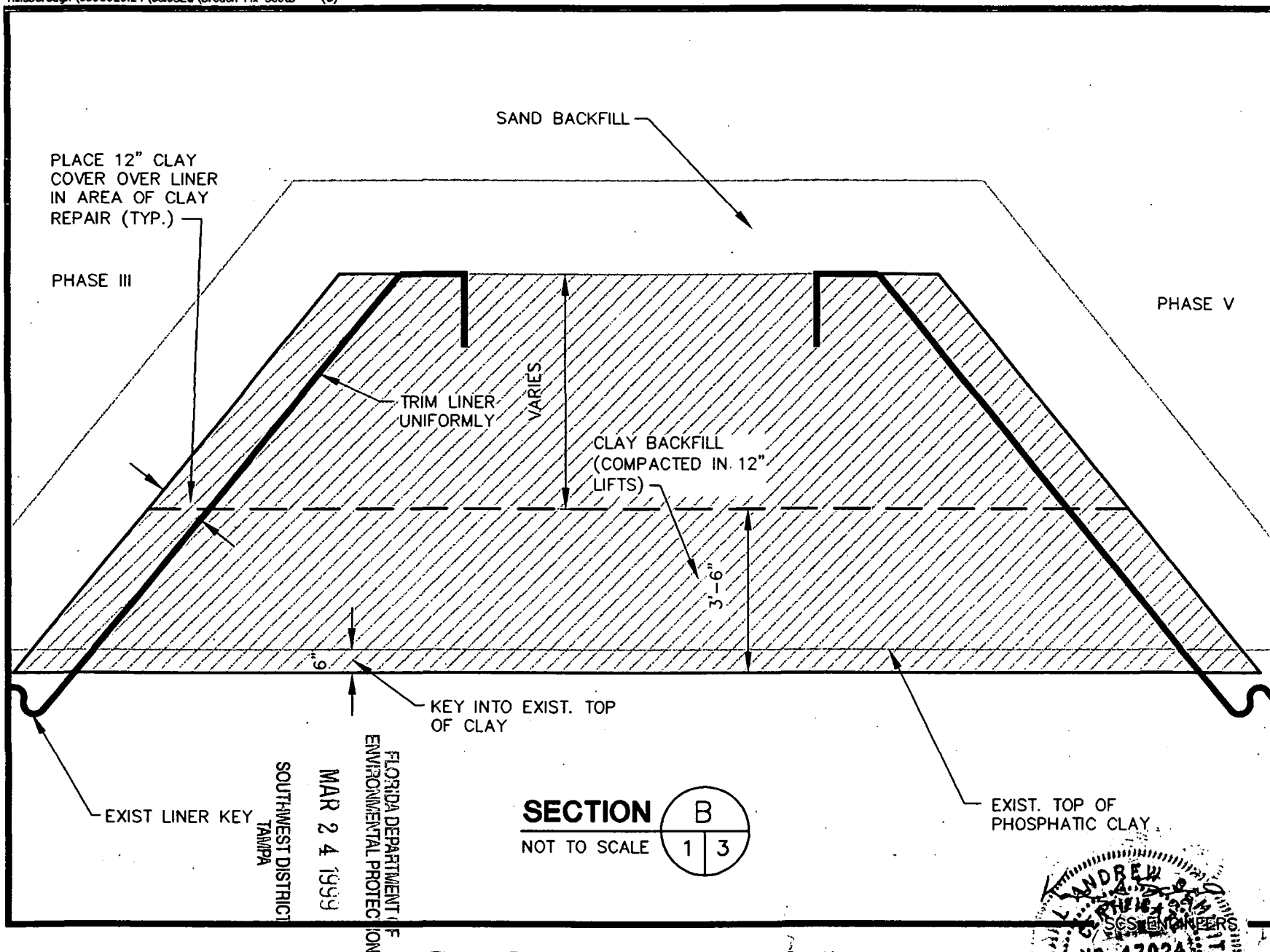


Figure 3. Berm Breach Repair Section.

SCS ENGINEERS
3012 U. S. Highway 301 N., Suite 700
Tampa, FL 33619
(813) 621-0080
Fax (813) 623-8757

facsimile transmittal

To: Mr. Kim Ford

Fax: 744-6125

From: Larry

Date: 3/10/99

Re: SCL#

Pages: 2

CC:

Project

No. 099029.14

☐ Urgent

☐ For Review

☐ Please Comment

☐ Please Reply

☐ Please Recycle

Notes:

For your files.
Larry.

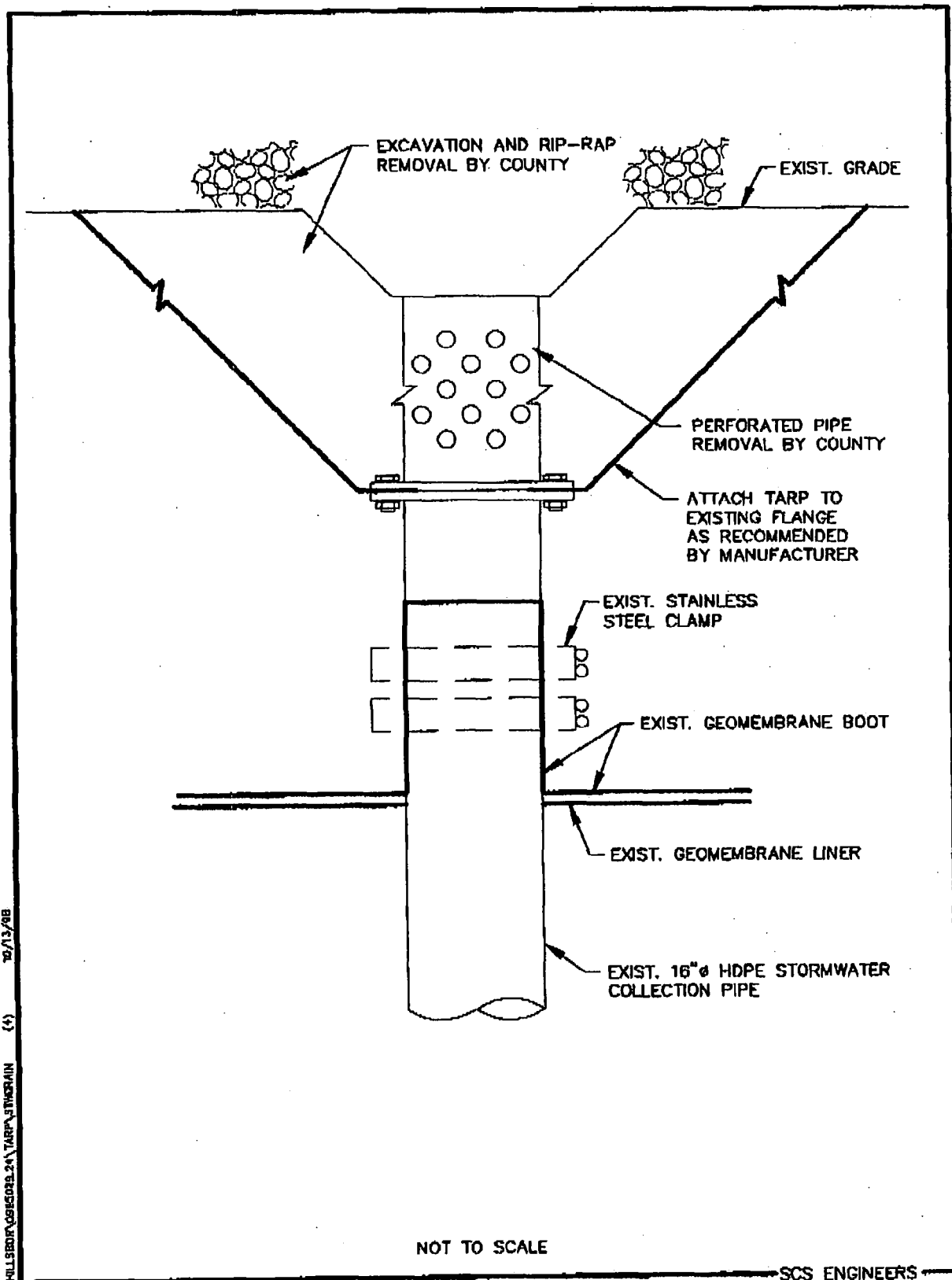


Figure 1. Phases V & VI Stormwater Drain Connection.

perMits	Events	Payment	Site	Facility	partY	Reports	
----- Permitting Application -----							
+----- SITE Permit -----+							
Site Name: HILLSBROUGH CO. SOUTHEAST LF (LF1)						Site #: 0035435	
County: HILLSBOROUGH Comments: N RPAs: N # Cases: 0							
----- Project -----							
Permit #:0035435-003-SO Project #:003 Received:02-NOV-1998 CRA#:34044							
Permit Office: SWD (DISTRICT)						Agency Action: Issued	
Project Name: SE LANDFILL - PHASE V & VI Desc:							
Type/Sub/Des: SO /MM MINOR MODIFICATION COE #:							
Logged: 13-NOV-1998 Issued: 10-MAR-1999 Expires: 10-MAR-2004 OGC:							
Fee: 250.00 Fee Recd: 250.00 Dele: Override: NONE							
----- Related Party -----							
Role: APPLICANT Begin: 13-NOV-1998 End:							
Name: SMITH, DARRYL H.						Company: HILLSBOROUGH COUNT SOLID WASTE	
Addr: P.O. BOX 1110							
City: TAMPA				State: FL Zip: 33601-		Country:	
Phone: 813-272-5680 Fax: 813-276-2960							
----- Processors -----							
Processor: FORD_K Y Active: 13-NOV-1998 Inactive:							

Count: *1

<Replace>

Events Scheduled						22	of 90
Site #: 0035435		Name: HILLSBROUGH CO. SOUTHEAST LF (LF1)					
Permit #: 0035435-003-SO		Type/Subtype: SO /MM		Received: 02-NOV-1998			
Project #: 003		Name: SE LANDFILL - PHASE V & VI					

> ISSUE PERMIT: Issued							
Event	Begin Date	Prd	Due Date	Rmn	Status	End Date	
Receive Request	02-NOV-1998	1	03-NOV-1998		Done	02-NOV-1998	
Fee Verification	02-NOV-1998	2	04-NOV-1998		Sufficient	13-NOV-1998	
Completeness Review	02-NOV-1998	30	02-DEC-1998		Incomplete	01-DEC-1998	
RESET CLOCK	01-DEC-1998	1	02-DEC-1998		Done	01-DEC-1998	
Awaiting Addition	01-DEC-1998	45	15-JAN-1999		Received	31-DEC-1998	
Completeness Review	31-DEC-1998	30	30-JAN-1999		Complete	31-DEC-1998	
Determine Agency	31-DEC-1998	90	31-MAR-1999		Issue	10-MAR-1999	
Issue Final Permit	10-MAR-1999	14	24-MAR-1999		Issued	10-MAR-1999	
ISSUE PERMIT	10-MAR-1999	1	11-MAR-1999		Issued	10-MAR-1999	
STOP CLOCK	10-MAR-1999	1	11-MAR-1999		Done	10-MAR-1999	
Publish Notice of	13-NOV-1998	14	27-NOV-1998		Done	08-DEC-1998	

Count: *9

v

<List><Replace>

permits	Events	P	ent	Site	Facility	Party	Reports	
----- Permitting Application -----								
+----- SITE Permit -----+								
Site Name: HILLSBROUGH_CO. SOUTHEAST_LF_(LF1)						Site #: 0035435		
County: HILLSBOROUGH Comments: N RPAs: N # Cases: 0								
+----- Project -----+								
Permit #:		-		Project #:		003 Received:		02-NOV-1998 CRA#:34044
Permit Office: SWD (DISTRICT)				Agency Action: Pending				
Project Name: SE LANDFILL - PHASE V & VI				Desc:				
Type/Sub/Des: SO/MM MINOR MODIFICATION				COE #:				
Logged: 13-NOV-1998 Issued:				Expires:		OGC:		
Fee: 250.00		Fee Recd: 250.00		Dele:		Override: NONE		
+----- Related Party -----+								
Role: APPLICANT		Begin: 13-NOV-1998		End:				
Name: SMITH, DARRYL H.				Company: HILLSBOROUGH_COUNT SOLID WASTE				
Addr: P.O. BOX 1110								
City: TAMPA		State: FL		Zip: 33601-		Country:		
Phone: 813-272-5680		Fax: 813-276-2960						
+----- Processors -----+								
Processor: FORD_K				Y Active: 13-NOV-1998 Inactive:				
+-----								
Enter Project Name.								
Count: 1		^ v		<Replace>				

AREA: SWD

ash Receiving Application
Collection Point Log Remittance

CRAF006A

Tot: \$250.00

SYSSREMT: 291283 Type: CP Recvd Date: 02-NOV-1998 Status: RECEIVED
SYSSRCPT: 238160 PNR: Check #: 01725575 Amount: 250.00
SSN/FEI#: Name: HILLSBOROUGH COUNTY/BD OF CO C
First: Middle: Title: Suf:
Address1: P.O. BOX 1110 Short Comments:
Address2: 35435-003 L-SE COUNTY LANDFILL
City: TAMPA ST: FL Zip: 33601- Country:

> P A Y M E N T (S) <

Distr	CL	Object	Payment	Reference#	Applic/	S
		Code/Description.....	Amount.....		Fund	T
						A
305887	SWD	002245 SOLID WASTE-OPE	\$250.00	35435-003	PA PFTF	CO

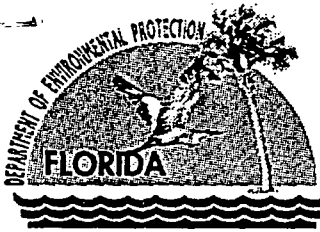
COMMIT FREQUENTLY

\$250.00 Payment total

Press <TAB> to accept Collection Point or enter F&A.

Count: *1

<Replace>



Jeb Bush
Governor

Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

David B. Struhs
Secretary

NOTICE OF PERMIT

March 10, 1999

Hillsborough County
Solid Waste Management Department
c/o Mr. Daryl Smith, Director
P. O. Box 1110
Tampa, FL 33601

Dear Mr. Smith:

Enclosed is Modification #35435-003 to Operation Permit Number SO29-256427, issued pursuant to Section(s) 403.087(1), Florida Statutes.

A person whose substantial interests are affected by the Department's proposed agency action may file a timely petition for an administrative hearing under sections 120.569 and 120.57 of the Florida Statutes, or may choose to pursue mediation as an alternative remedy under section 120.573 before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth below.

A person may pursue mediation by reaching a mediation agreement with all parties to the proceeding (which include the applicant, the Department, and any person who has filed a timely and sufficient petition for a hearing) and by showing how the substantial interests of each mediating party are affected by the Department's action or proposed action. The agreement must be filed in (received by) the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

The agreement to mediate must include the following:

- (a) The names, addresses, and telephone numbers of any persons who may attend the mediation;
- (b) The names, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time;
- (c) The agreed allocation of the costs and fees associated with the mediation;
- (d) The agreement of the parties on the confidentiality of discussions and documents introduced during mediation;

Hillsborough County
Solid Waste Management Department
c/o Mr. Daryl Smith, Director
Permit No.: SO29-256427

March 10, 1999
Page Two

(e) The date, time, and place of the first mediation session, or a deadline for holding the first session, of no mediator has yet been chosen;

(f) The name of each party's representative who shall have authority to settle or recommend settlement; and

(g) Either an explanation of how the substantial interests of each mediating party will be affected by the action or proposed action addressed in this notice of intent or a statement clearly identifying the petition for hearing that each party has already filed, and incorporating it by reference.

(h) The signatures of all parties or their authorized representatives.

As provided in section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by sections 120.569 and 120.57 for requesting and holding an administrative hearing. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons whose substantial interests will be affected by such a modified final decision of the Department have a right to petition for a hearing only in accordance with the requirements for such petitions set forth above, and must therefore file their petitions within fourteen days of receipt of this notice. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under sections 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that they will apply for challenging the agency action and electing remedies under those two statutes.

The petition for an administrative hearing must conform to the requirements of Chapters 62-103 and 28-5.201, F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within fourteen (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes. This permit (or permit modification) is final and effective on the date filed with the Clerk of the Department unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

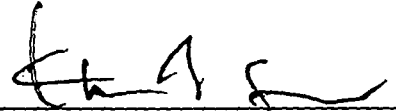
Hillsborough County
Solid Waste Management Department
c/o Mr. Daryl Smith, Director
Permit No.: SO29-256427

March 10, 1999
Page Three

When the Order (Permit or Permit Modification) is final, any party to the Department has the right to seek judicial review of the Order 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, 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
Attachment

cc: Robert Gardner, P.E., SCS Engineers
Patricia Berry, HCSWMD
Paul Schipfer, HCEPC
Robert Butera, P.E., FDEP Tampa
Danielle Nichols, 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 MARCH 10, 1999 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.


Clerk

Mar 10, 1999
Date

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 Initial 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 therefore.

(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

ADMINISTRATIVE CODE
RULES OF ADMINISTRATIVE PROCEDURE
FINAL AGENCY ACTION (NON-RULEMAKING) AND APPEAL

62-103.155 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;

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 of any right to request an administrative proceeding under Chapter 120, F.S.

(4) If a petition is filed that does not substantially comply with the 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. If an amended petition complying with this rule is not filed (received) within 15 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 or notice of proposed agency action as prescribed in Rule 62-103.150, F.A.C., a person who has actual knowledge of the agency action or has knowledge which would lead a reasonable person to conclude that the Department has taken final 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 by Rule 62-103.150, 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 or 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.

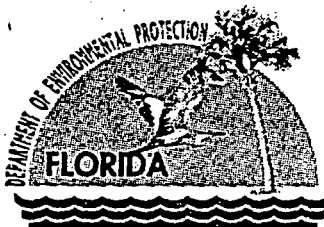
(8) In such cases where persons do not timely exercise their rights accorded by Section 120.57(1), Florida Statutes, the allegations of fact contained in or incorporated by the final agency action shall be deemed uncontested and true, and appellants may not dispute the truth of such allegations upon 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, Formerly 17-103.155.



Jeb Bush
Governor

Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

David B. Struhs
Secretary

March 10, 1999

PERMITTEE:

Hillsborough County
Solid Waste Management Dept.
c/o Mr. Daryl Smith, Director
Post Office Box 1110
Tampa, FL 33601

**RE: Modification #35435-003 to existing operation permit
Permit No.: SO29-256427, Hillsborough County
Southeast County Class I Landfill**

Dear Mr. Smith:

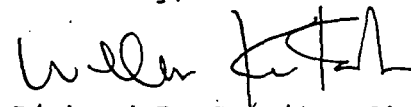
Your existing operation permit No. SO29-256427 is hereby modified as follows:

<u>SPECIFIC CONDITIONS</u>	<u>FROM</u>	<u>TO</u>	<u>TYPE OF MODIFICATION</u>
#2., #3., and #10.,	Existing	Amended	Revised Leachate Management Plan and Sequence of Filling

General Information: Revisions to the Leachate Management Plan include the operation of Phases V and VI. Revisions to the sequence of filling include Lift 7.

This letter and its attachments constitute a complete permit and replace all previous permits and permit modifications for the above referenced facility.

Sincerely,


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

RDG/kbfb
Attachments



Department of Environmental Protection

Jeb Bush
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

David B. Struhs
Secretary

PERMITTEE

Hillsborough County
Solid Waste Management Dept.
Mr. Daryl Smith, Director
Post Office Box 1110
Tampa, Florida 33601

PERMIT/CERTIFICATION

GMS ID No: 4029C30075
Permit No: SO29-256427
Date of Issue: 10/30/1996
Expiration Date: 10/30/2001
County: Hillsborough
Lat/Long: 27°46'25"N
82°11'15"W
Sec/Town/Rge: 13, 14, 15,
18, 19, 22,
23, 24, 31,
& 32S/21E
Project: Southeast County
Class I Landfill

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-330, 62-522, 62-550, and 62-701. 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 and maintain a landfill, leachate treatment plant and related ancillary facilities (approximately 200 acres), referred to as the Southeast County Class I Landfill Facility, subject to the specific and general conditions attached, for disposal of solid waste, located 8.8 miles east of U.S. 301 on C.R. 672, southeast of Tampa, Hillsborough County, Florida. The specific conditions attached are for the operation of:

1. Southeast County Class I Landfill Facility

Replaces Permit No.: SO29-158504 and SC29-199393

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 may be initiated to assure compliance with the conditions of this permit.

PERMITTEE: Department of Solid Waste
Mr. Daryl Smith, Director

PERMIT NO: SO29-256427
Southeast County
Class I Landfill

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 403.861, 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 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.

PERMITTEE: Department of Solid Waste
Mr. Daryl Smith, Director

PERMIT NO: S029-256427
Southeast County
Class I Landfill

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.

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GENERAL CONDITIONS:

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 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.

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(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.

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Southeast County
Class I Landfill

SPECIFIC CONDITIONS:

1. **Landfill Designation.** This site shall be classified as a Class I landfill and shall be operated in accordance with all applicable requirements of Chapters 62-4, 62-330, 62-520, 62-522, 62-550, 62-701 and 62-703, Florida Administrative Code (F.A.C.) and all applicable requirements of Department rules.

2. **Permit Application Documentation.** This permit is valid for operation of the Class I landfill, leachate treatment plant and related facilities in accordance with the reports, plans and other information as follows:

- Operation Permit Application (3 volumes) including operation plans by SCS received August 22, 1994;
- November 18, 1994 Plans and additional information by SCS received November 18, 1994;
- January 13 and 30, 1995 Additional information by SCS received January 13 and 31, 1995, respectively;
- March 24 and May 26, 1995 Additional Information by SCS received March 27 and May 26, 1995, respectively;
- Evaluation Report for the Leachate Treatment and Reclamation Facility by SCS received July 2, 1996;
- July 31, 1996 Additional Information regarding leachate treatment by Hillsborough County received August 5, 1996;
- General Process and Operation Manual for the PACT Leachate Treatment System (March 1994) received October 23, 1996;
- October 30, 1996 Spray Irrigation Runoff Calculations by SCS received October 30, 1996;
- December 31, 1998 Leachate Management Plan by SCS Engineers received on December 31, 1998, and replacement pages dated March 2, 1999;
- December 31, 1998 Lift 7 Sequence Drawings by SCS Engineers received on December 31, 1998, and replacement drawing 7 of 9 received on March 2, 1999;
- and in accordance with all applicable requirements of Department rules.

Amended MARCH 10, 1999.

3. **Permit Modifications.** This permit does not authorize landfill closure. Any construction or operation subject to Department solid waste regulations 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, or unless otherwise approved in writing by the Department. Permits shall be modified in accordance with the requirements of 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.

Amended MARCH 10, 1999.

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SPECIFIC CONDITIONS:

4. **Permit Renewal.** No later than one hundred eighty (180) 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. Permits shall be renewed at least every five years as required by F.A.C. 62-701.330(3).
5. **Prohibitions.** The prohibitions of F.A.C. 62-701.300 shall not be violated by the activities at this facility.
6. **Special Wastes.** The design, operation, and monitoring of disposal or control of any "special wastes" shall be in accordance with F.A.C. 62-701.300(8), 62-701.520 and any other applicable Department rules, to protect the public safety, health and welfare.
7. **Landfill Operation Requirements.** The permittee shall operate this facility in accordance with F.A.C. 62-701.500, Landfill Operation Requirements.
8. **Operating Personnel.** As required by F.A.C. 62-701.500(1), at least one operator, trained in accordance with F.A.C. 62-703, shall be at the landfill at all times when the landfill receives waste. The permittee shall notify the Department in writing of a change of the primary on-site supervisor within 7 days of the effective start date of this new responsible individual. Copies of the training certificates for the newly assigned individual shall also be submitted.
9. **Operation Plan and Operating Record.** Each landfill owner or operator shall have an operational plan which meets the requirements of F.A.C. 62-701.500(2). A copy of the Department approved permit, operational plan, construction reports and record drawings, and supporting information shall be kept at the facility at all times for reference and inspections. An operating record as required by F.A.C. 62-701.500(3) is part of the operations plan, and shall also be maintained at the site.
10. **Method and Sequence of Filling.** The method and sequence of filling shall be in accordance with the August 1994 drawings by SCS "Operating Sequence", received August 22, 1994, the revised sheets 15, 16, and 16B by SCS received November 18, 1994, and the December 31, 1998 Lift 7 Sequence Drawings by SCS received on December 31, 1998, and replacement drawing received on March 2, 1999.
Amended MARCH 10, 1999.
11. **Waste Records.** Waste quantity records shall be compiled monthly as described by F.A.C. 62-701.500(4) and made available to the Department upon request.

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12. **Control of Access.** Access to, and use of, the facility shall be controlled as required by F.A.C. 62-701.500(5).

13. **Monitoring of Waste.** Wastes shall be monitored as required by F.A.C. 62-701.500(6) including a load checking program and associated activities.

a. The permittee shall not knowingly accept hazardous waste or any hazardous substance for disposal at this site. Hazardous waste is a waste identified in Chapter 62-730, F.A.C. Hazardous substances are those defined in Section 403.703, Florida Statute or in any other applicable state or federal law or administrative rule. Sludges or other wastes which may be hazardous should be disposed of in accordance with F.A.C. 62-701.300(4) and 62-701.500(6)(b).

b. The operating authority shall maintain a program which prohibits the disposal of bulk industrial wastes which operating 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 operating authority on-site.

14. **Waste Handling Requirements.** All solid waste disposed of in the Class I area shall be covered as required by F.A.C. 62-701.500(7).

a. Initial cover shall be applied and maintained in accordance with F.A.C. 62-701.500(7)(e) so as to protect the public health and welfare. All solid waste disposed of in the Class I 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.

b. Alternate initial cover materials not identified herein shall be approved by the Department prior to use at the facility. For those areas where solid waste will be deposited on the working face within 18 hours, initial cover may consist of a temporary cover or tarpaulin. Waste tires that have been cut into sufficiently small parts, which means that 70 percent of the waste tire material is cut into pieces of 4 square inches or less and 100 percent of the waste tire material is 32 square inches or less, and applied in a six (6) inch compacted layer, may be used as initial cover within the bermed working area. Municipal solid waste ash applied in a six (6) inch compacted layer may be used as initial cover within the bermed working area.

c. Intermediate cover shall be applied and maintained in accordance with F.A.C. 62-701.500(7)(f). 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.

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15. **Working Face.** As required by F.A.C. 62-701.500(7)(d), the permittee shall minimize the size of the working face to minimize leachate, and unnecessary use of cover material. The permittee shall maintain the working face of a cell only wide enough to efficiently accommodate the maximum quantity of vehicles discharging waste simultaneously and to minimize the exposed area. Interceptor berms shall be maintained around the working area to prevent leachate runoff from the working face from entering the stormwater management system. Runoff from outside the bermed working face area will be considered stormwater only if the flow passes over areas which have no exposed waste.

16. **Final Cover.** Portions of the landfill which have been filled with waste to the extent of closure designed dimensions shall be closed (shall receive final cover) in accordance with F.A.C. 62-701.500(7)(g) and all applicable requirements of Department rules. Temporary final clay cover shall be placed on areas which have not reached closure designed dimensions in accordance with the August 1994 "operating sequence" by SCS. The temporary final clay cover has not been approved as the permanent "final cover" required by Department rules.

17. **Leachate Management.** Leachate shall be managed in accordance with the requirements of F.A.C. 62-701.500(8), the August 4, 1995 Leachate Management Plan and Leachate Management Plan September 1996 Supplement by SCS.

a. The leachate storage tanks shall be inspected as required by F.A.C. 62-701.400(6)(c)9.

b. Each pump station shall be inspected on a semi-annual basis. Pump performance shall be verified and current draw recorded. Pumps showing reduced performance shall be removed for maintenance and repair, and a replacement pump installed if required for continued compliance. Documentation of all inspections shall be kept on file at the facility.

c. Leachate generation reports shall be compiled monthly and submitted to the Department as requested. Leachate generation reports shall include the number of open, intermediate and closed acres, and the quantities of leachate collected, recirculated, treated and disposed on-site, and hauled/piped off-site to a wastewater treatment facility, and daily precipitation amounts greater than one tenth of an inch.

d. No later than one hundred and eighty (180) days prior to permit expiration, the entire leachate collection and removal system, force mains and gravity pipelines, shall be visually or video inspected and pressure tested where possible to verify adequate performance. Components not performing adequately shall be cleaned and/or repaired. The results of the inspection and testing shall be submitted to the Solid Waste Section of the Southwest District Office and Environmental Protection Commission (EPC) to demonstrate adequate performance prior to permit renewal.

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18. Gas Monitoring. Landfill gas shall be monitored as required by F.A.C. 62-701.500(9) and 62-701.400(10), and Section 3.7 of the August 22, 1994 engineering report by SCS Engineers received August 22, 1994. The results of the quarterly monitoring shall be submitted as follows:

Quarter 1	April 15th
Quarter 2	July 15th
Quarter 3	October 15th
Quarter 4	January 15th

19. Gas Monitoring Locations. The following gas monitoring points as shown on Figures 3-4, 3-5 and 3-6, attached, shall be sampled quarterly for the Lower Explosive Limit (LEL) of methane, as described in F.A.C. Rule 62-701.400(10)(c).

<u>Monitoring Point</u>	<u>Location</u>
LFG-1	See Figure 3-4.

Scalehouse/Administration Building:

S/A-SP-1	See Figure 3-5.
S/A-SP-2	"
S/A-SP-3	"
S/A-SP-4	"
S/A-SP-5	"
S/A-SP-6	"
S/A-SP-7	"
S/A-SP-8	"
S/A-SP-9	"

Maintenance Building:

M-SP-1	See Figure 3-6.
M-SP-2	"
M-SP-3	"
M-SP-4	"

20. Gas Remediation. In the event that the Lower Explosive Limit (LEL) is greater than 25% inside structures both on or off of the landfill site, or greater than 100% at the property boundary, the owner shall submit to the Department, within 7 days of detection, a remediation plan detailing 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.

21. Stormwater System Management. Stormwater shall be managed as required by F.A.C. 62-701.500(10) to meet applicable standards of F.A.C. 62-302 and 62-330. The system shall minimize stormwater from entering waste filled areas and avoid the mixing of stormwater with leachate. All stormwater conveyances shall be inspected at least weekly to verify adequate performance. Conveyances not performing adequately shall be repaired within three (3) working days. Documentation of all inspections and repairs shall be kept on file at the facility.

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22. **Recordkeeping.** Records shall be maintained as required by F.A.C. 62-701.500(13).

23. **Waste Burning.** Open burning of solid waste is prohibited except in accordance with F.A.C. 62-701.520(2). 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 F.A.C. 62-296.401(6). Any accidental fires which require longer than one (1) hour to extinguish must be promptly reported to the Department of Environmental Protection and the Hillsborough County Environmental Protection Commission.

24. **Closure Permit Requirements.** No later than one hundred eighty (180) days prior to the date when wastes will no longer be accepted for portions of the landfill which have reached closure designed dimensions, the landfill owner or operator shall submit a closure permit application to the Department, in order to assure conformance with all applicable Department rules.

25. **Financial Assurance.** The permittee shall provide financial assurance for this landfill site in accordance with F.A.C. 62-701.630. All costs for closure and long-term care shall be adjusted and submitted annually, by September 1 each year, 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: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

26. **Control of Nuisance Conditions.** 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 nuisance conditions on adjoining 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. The owner or operator shall control mosquitoes and rodents as so to protect the public health and welfare.

27. **Liner Location.** The top edge of the geomembrane liner shall be clearly flagged in as many locations as required to prevent waste disposal and leachate runoff outside the geomembrane liner. The flagging or staking markers shall be maintained at all times.

28. **Facility Maintenance and Repair.** The site shall be properly maintained including erosion control, maintenance of grass cover, prevention of ponding, surface water monitoring locations, groundwater monitoring system repairs, and repair and maintenance of leachate collection and removal systems, and maintenance of the leachate storage/treatment and disposal facilities. In the event of damage to any portion

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of the landfill site facilities regulated by this permit or failure of any part of the landfill systems, the permittee shall immediately (within 24 hours) notify the Department of Environmental Protection and EPC explaining such occurrence and remedial measures to be taken and time needed for repairs. Written detailed notification shall be submitted to the Department and EPC within seven (7) days following the occurrence. Routine maintenance does not require notification but shall be noted on daily reports.

29. Water Quality Monitoring Quality Assurance.

- a. All field and laboratory work done in connection with the facility's Water Quality Monitoring Plan shall be conducted by a firm possessing a Comprehensive Quality Assurance Plan approved by the Department to meet the requirements of F.A.C. 62-160. The Quality Assurance Plan must specifically address the types of sampling and analytical work that is required by the permit. The Quality Assurance Plan shall be required of all persons performing sampling or analysis, and shall be followed by all persons collecting or analyzing samples related to this permit. Documentation of an approved QAP shall be submitted annually to the Department and EPC with the groundwater sampling report due January 15th. Documentation shall include the completed signature page and the Table of Contents of the approved plan.
- b. 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 F.A.C. 62-4.246 and 62-160. Approved methods published by the Department or as published in Standard Methods, A.S.T.M., or EPA methods shall be used.

30. Zone of Discharge.

- a. The zone of discharge for this site shall extend horizontally 100 feet from the limits of the landfill liner or to the property boundary, whichever is less, and shall extend vertically to the bottom of the first-occurring aquifer.
- b. The permittee shall ensure that the water quality standards and minimum criteria for Class G-II groundwaters will not be exceeded at the boundary of the zone of discharge according to F.A.C. 62-520.420.

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31. **Leachate Sampling.** Leachate shall be sampled from pump station #3 and a sample port in pump station #5. Samples for volatile organics shall be collected from pump station #5 only, and the remainder of the parameters shall be analyzed from a composite sample from pump stations 3 and 5. The permittee shall notify the Department within 30 days of substantial changes to the leachate removal process, to allow evaluation of representative sampling locations. Samples shall be collected and analyzed every 6 months for the following monitoring parameters:

<u>Field parameters</u>	<u>Laboratory parameters</u>
Specific Conductivity	Total Ammonia - N
pH	Bicarbonate
Dissolved oxygen	Chlorides
Colors, sheens	Iron
(by observation)	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. 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 industrial or domestic wastewater treatment facility shall be treated or managed so that no contaminant exceeds the regulatory level of 40 CFR Part 261.24. 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.

32. **Surface Water Sampling.**

a. The surface water monitoring stations are located as follows:

<u>SURFACE WATER</u>	<u>SAMPLE TYPE</u>	<u>LOCATION</u>
1A	Composite pond	Surface Water from lake along eastern boundary.
1B		
1C		
1D		
1E		
3A	Runoff	Drainage ditch to Long Flat Creek as creek flows onto Southeast property boundary.

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SURFACE WATER

3B2B

SAMPLE TYPE

Runoff

LOCATION

Drainage ditch to
Long Flat Creek,
directly west of
well TH-28.

3C2

Runoff

Drainage ditch to
Long Flat Creek as
creek leaves landfill
property at northeast
boundary.

All locations are shown on attached drawing titled "Monitoring Wells and Surface Water Locations".

A surveyed drawing shall be provided for all staff gauges installed at all surface water sampling locations by December 1, 1996. The survey shall show all locations in degrees, minutes and seconds of latitude and longitude, the Universal Transverse Mercator Coordinates, and the gauge elevation to the nearest 0.01 foot, National Geodetic Vertical Datum. The surveyed drawing shall include the surface water sampling locations. The survey shall be conducted by a registered land surveyor.

b. Surface water monitoring stations shall be sampled in accordance with F.A.C. 62-701.510(6)(d) every six months, for the following parameters:

Field parameters

Specific Conductivity
pH
Dissolved Oxygen
Turbidity
Temperature
Colors and sheens
(by observation)

Laboratory parameters

Unionized Ammonia
Total Hardness
Biochemical Oxygen Demand (BOD₅)
Copper
Iron
Mercury
Nitrate
Zinc
Total Dissolved Solids (TDS)
Total Organic Carbon (TOC)
Fecal Coliform
Total Phosphorous
Chlorophyll A
Total Nitrogen
Chemical Oxygen Demand (COD)
Total Suspended Solids (TSS)
Those parameters listed in
40 CFR Part 258, Appendix I

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33. Groundwater Monitoring Well Locations.

a. The active ground water monitoring wells are located as shown on attached drawing titled "Monitoring Wells and Surface Water Locations", as follows:

<u>Well Number</u>	<u>Aquifer</u>	<u>Location</u>
TH-19	Floridan/background	see attached drawing
TH-22	Surficial/background	"
TH-28	Surficial/detection	"
TH-30	Surficial/detection	"
TH-38A	Surficial/background	"
TH-40	Floridan/detection	"
TH-57*	Surficial/detection	"
TH-58*	Surficial/detection	"

*New monitoring well to be surveyed by December 1, 1996.

All wells are to be clearly labelled and easily visible at all times.

b. A surveyed drawing shall be submitted showing the location of all monitoring wells (active and abandoned) in degrees, minutes and seconds of latitude and longitude, the Universal Transverse Mercator coordinates, and the elevation of the top of the well casing to the nearest .01 foot, National Geodetic Vertical Datum. The surveyed drawing shall include the new monitor well identification number, location and elevation of all permanent benchmarks and/or corner monument marker(s) at the site. The survey shall be conducted by a registered Florida land surveyor and submitted by December 1, 1996.

c. In accordance with FAC Rule 62-522.600, new wells TH-57 and TH-58 shall be sampled for the parameters listed in 62-701.510(8)(a) and (d), and the data submitted to the Department by December 1, 1996. The permittee shall ensure that the groundwater monitoring system adequately monitors the existing site.

d. Within ninety (90) days after completion of any new wells the following information shall be provided:

Well identification	Driller's Log
Latitude/Longitude	Total depth of well
Aquifer monitored	Casing diameter
Screen Type and slot size	Casing type and length
Screen length	SWFWMD well construction
Well seal and filter pack	permit numbers
type and thickness	
Elevation at top of pipe	

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34. **Groundwater Sampling.** All detection and background wells shall be sampled in accordance with F.A.C. 62-701.510(6)(c) and analyzed every 6 months for the groundwater monitoring parameters listed as follows:

<u>Field parameters</u>	<u>Laboratory parameters</u>
Static Water Level	Total Ammonia - N
before purging	Chlorides
Specific Conductivity	Iron
pH	Mercury
Dissolved Oxygen	Nitrate
Turbidity	Sodium
Temperature	Total Dissolved Solids (TDS)
Colors and sheens	Those parameters listed in
(by observation)	40 CFR Part 258, Appendix I

Unfiltered samples will be used for compliance with groundwater standards, unless field filtering of samples is approved by the FDEP in accordance with the January 1994 FDEP Technical Document, Determining Representative Ground Water Samples, Filtered or Unfiltered.

Additional samples, wells, and parameters may be required based upon subsequent analysis.

35. Existing site wells TH-19A, TH-20B, TH-24A, TH-26, TH-32, TH-35, TH-35A, TH-36, TH-41, TH-42, TH-56A and the Supply Well shall be preserved for future use. TH-36A will replace existing TH-36 and shall be installed in accordance with proposed construction by the applicant dated December 1, 1994. Total well depth will be dependent on depth to groundwater at the well location. TH-36A shall be installed by February 1, 1997, and well construction details submitted as required by Specific Condition No. 33.d. All other wells not a part of the approved Water Quality Monitoring Plan are to be plugged and abandoned in accordance with F.A.C. 62-532.440, and the Southwest Florida Water Management District. The permittee shall submit a written report to the Department providing verification of the well abandonment within 60 days of abandonment. A written request for exemption to the abandonment of a well must be submitted to the Department's Solid Waste Section for approval.

36. **Assessment Monitoring.** If at any time monitoring parameters are detected at concentrations significantly above background water quality, or exceed the Department's water quality standards or criteria at the edge of the zone of discharge, the permittee has 15 days from receipt of water quality results 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 representative of current groundwater conditions at the facility, and assessment monitoring/corrective action as described in F.A.C. 62-701.510(7) shall be initiated.

PERMITTEE: Department of Solid Waste
Mr. Daryl Smith, Director

PERMIT NO: SO29-256427
Southeast County
Class I Landfill

SPECIFIC CONDITIONS:

37. Groundwater Monitoring Plan Evaluation.

Every two years and prior to 180 days before the expiration of the Department Permit, the permittee shall submit an evaluation of the Groundwater Monitoring Plan as described in F.A.C. 62-701.510(9)(b). The evaluation shall include the applicable information as required by F.A.C. 62-701.510(9), and shall include 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. The first evaluation shall be submitted to the Solid Waste Section of the Department by July 15, 1997.

38. In order to provide reasonable assurance of adequate leachate treatment, the permittee shall submit the results of sampling and analysis as follows:

- a. treated leachate shall be sampled and analyzed for the Primary and Secondary Drinking Water parameters and EPA Priority Pollutants after the leachate treatment facility has achieved steady-state conditions with regard to its treatment capability or within 30 days after downtime due to maintenance or repairs, whichever is less, and semi-annually.
- b. treated leachate shall be sampled by grab samples before disposal as follows:

<u>Parameter</u>	<u>Frequency</u>	<u>Units</u>
pH	weekly	std. Units
TOC	monthly	mg/L
BOD ₅	monthly	mg/L
COD	monthly	mg/L
TSS	monthly	mg/L
NO ₃ -N	monthly	mg/L
TDS	monthly	mg/L

- c. waste sludge shall be sampled and analyzed annually for EPA Priority Pollutants, TCLP and as follows:

<u>Parameters</u>	<u>Units</u>
Total Nitrogen	percent (dry weight)
Total Phosphorus	percent (dry weight)
Total Potassium	percent (dry weight)
Cadmium	mg/kg (dry weight)
Copper	mg/kg (dry weight)
Lead	mg/kg (dry weight)
Nickel	mg/kg (dry weight)
Zinc	mg/kg (dry weight)
pH	std. units
Solids	percent

PERMITTEE: Department of Solid Waste
Mr. Daryl Smith, Director

PERMIT NO: SO29-256427
Southeast County
Class I Landfill

SPECIFIC CONDITIONS:

Sludge to be disposed of in conjunction with municipal solid waste shall be dewatered to 30 percent or greater solids (by weight).

Based upon the results of the analysis, the Department may require further testing and alternative disposal in order to assure compliance with all Department rules and regulations.

39. **Analytical Reporting Requirements.** All surface water and ground water quality monitoring and leachate, sludge and effluent analyses shall be reported on the Department Form 62-522.900(2), Groundwater Monitoring Report (attached). The groundwater results shall include the items listed in F.A.C. 62-701.510(9)(a). The permittee shall submit to the Department the results of the water quality and leachate analysis July 15th and January 15th for the semi-annual periods January-June and July-December, respectively. Sludge results shall be submitted annually by January 15th. Leachate effluent analysis shall be submitted quarterly by January 15th, April 15th, July 15th and October 15th. The results shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318; Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, M.S. 4565, Tallahassee, Florida 32399-2400; and the Hillsborough County Environmental Protection Commission located at 1900 9th Avenue, Tampa, Florida 33605.

40. This permit allows spray irrigation at a rate of .10 inch per application followed by two hours (waiting period) between each application for a maximum of .30 inch per day of treated effluent from the associated treatment facility. Under no circumstances shall treated effluent be allowed to discharge as runoff to adjacent stormwater systems or conveyance ditches. Treated effluent shall not be sprayed during weather conditions or in quantities that may cause runoff, surface seeps, wind-blown spray, or exceedance of limits of leachate head on the liner. Ponding is prohibited.

Spraying shall take place only when runoff into the onsite retention areas downgradient from the spray areas has terminated for 2 hours based on daily inspections of the influent point to each related retention area, or as follows, whichever is more restrictive:

- a. at least 4 hours after a rainfall of 3/4" or less, or
- b. at least 24 hours after a rainfall of 3/4" to 2 1/2", or
- c. at least 48 hours after a rainfall of 2 1/2" or greater

The following shall be recorded daily:

- | | |
|--|------------------------------------|
| • treated effluent sprayed | gal/day |
| • rainfall onsite | inches/day & time of day |
| • observed runoff influent to retention area | (yes/no) time of day of inspection |

PERMITTEE: Department of Solid Waste
Mr. Daryl Smith, Director

PERMIT NO: SO29-256427
Southeast County
Class I Landfill

SPECIFIC CONDITIONS:

The gallons per day sprayed shall be recorded separately for each application area. The time of day shall be reported immediately following the end of rainfall and for no observed runoff in downgradient ponds and ditches prior to spraying.

Spraying shall take place on slopes no steeper than 10%; on areas of fair grass cover (as per HELP Model); only between the hours of 10 a.m. and 4 p.m.; no closer than 100 feet from the liner anchor trench; and on areas that have not reached closure designed dimensions (have not received permanent final cover).

41. Discharge to area surface waters is not authorized by this permit. Surface water discharge shall be considered a violation of this permit and the permittee shall immediately report any such discharge to the Southwest District Office of the Department of Environmental Protection and the Hillsborough County Environmental Commission.

42. No later than one hundred eighty (180) days prior to permit expiration, the permittee shall submit an evaluation of the performance of the clay bottom liner. The evaluation is to assure the Department that the clay bottom liner is consolidating as originally designed and to estimate the amount of consolidation and settlement of the clay bottom liner which has actually occurred. The evaluation shall be based on actual field data and shall include: top of clay contours and depth of leachate throughout each phase (worst case) calculated based on LCRS pipe spacing; leachate generation rates, top of clay contours and actual field measurements. Elevations for top of clay and leachate shall be provided to the nearest tenth of a foot, N.G.V.D. The evaluation shall include recommendations for improvements to the liner system, if necessary, and shall be certified by a professional engineer.

43. Professional Certification. 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.

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

45. Permit Acceptance. 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.

PERMITTEE: Department of Solid Waste
Mr. Daryl Smith, Director

PERMIT NO: S029-256427
Southeast County
Class I Landfill

SPECIFIC CONDITIONS:

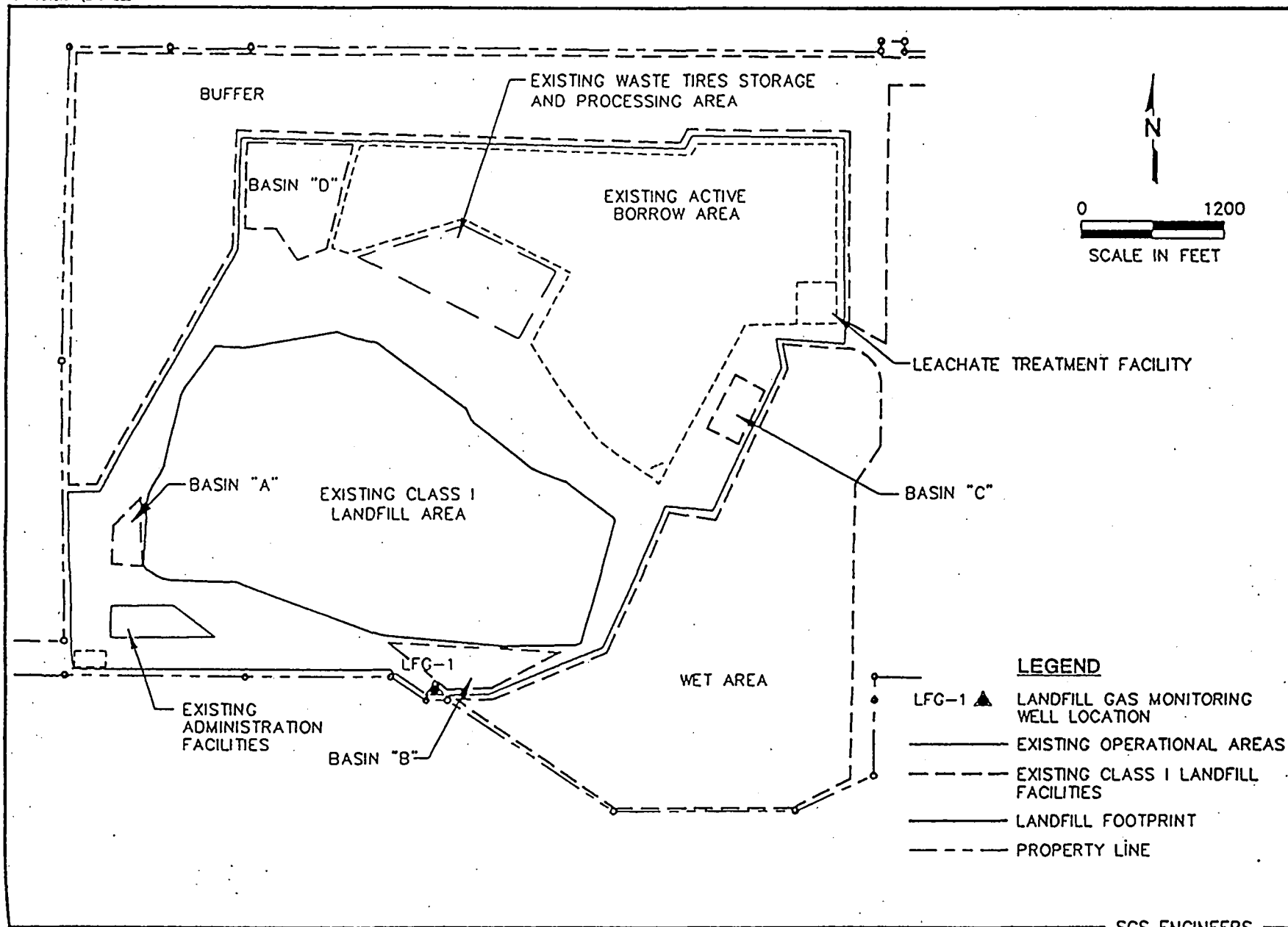
46. Regulations. F.A.C. 62-701, effective May 19, 1994, is incorporated into this permit by reference. In the event that the regulations governing this permitted operation are revised, the Department shall notify the permittee, and the permittee shall request modification of those specific conditions which are affected by the revision of regulations to incorporate those revisions.

PERMITTEE: Department of Solid Waste
Mr. Daryl Smith, Director

PERMIT NO: SO29-256427
Southeast County
Class I Landfill

Attachment 1

SPECIFIC CONDITION	SUBMITTAL DUE DATE	REQUIRED ITEM
4., 17.d, and 42.	180 days prior to permit expiration	Permit Renewal Application LCRS Inspection Liner Performance Evaluation
18., 39.	Quarterly, by January 15th, April 15th, July 15th, and October 15th	Gas monitoring reports Leachate effluent results
24.	90 days prior to date of final waste acceptance	Closure Permit Application
25.	Annually, by September 1st	Financial assurance cost estimates
29.a.	Annually, by January 15th	Water quality QAP documentation
31.	Every 6 months	Leachate sampled/analyzed
31.	Annually	Leachate sampled/analyzed for 40 CFR Part 258, Appendix II parameters
32.a., 33.a. 33.b.	December 1, 1996	Staff gauge survey, Monitoring well survey
32.b.	Every 6 months	Surface water sampling
34.	Every 6 months	Groundwater wells sampled/ analyzed
35.	February 1, 1997	Well Construction
37.	Every two years by July 15th and 180 days prior to permit expiration	Evaluation of groundwater monitoring plan
38.a., 39.	Semi-annually, by January 15th, and July 15th	Water quality and leachate monitoring results, treated leachate effluent monitoring results
39.	Annually	Leachate treatment sludge results



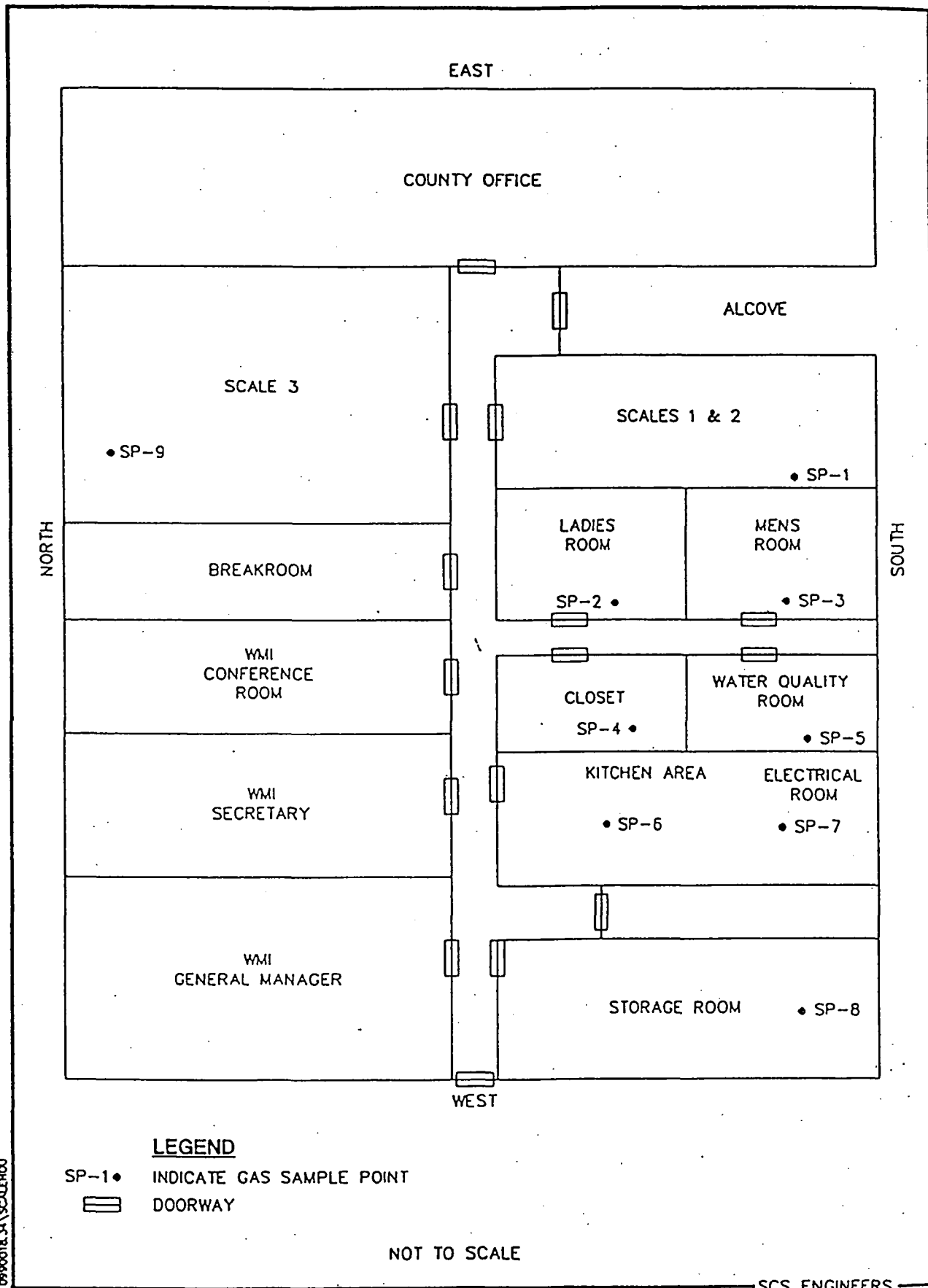


Figure 3-5. Scalehouse/Administration Building LFG Monitoring Points.

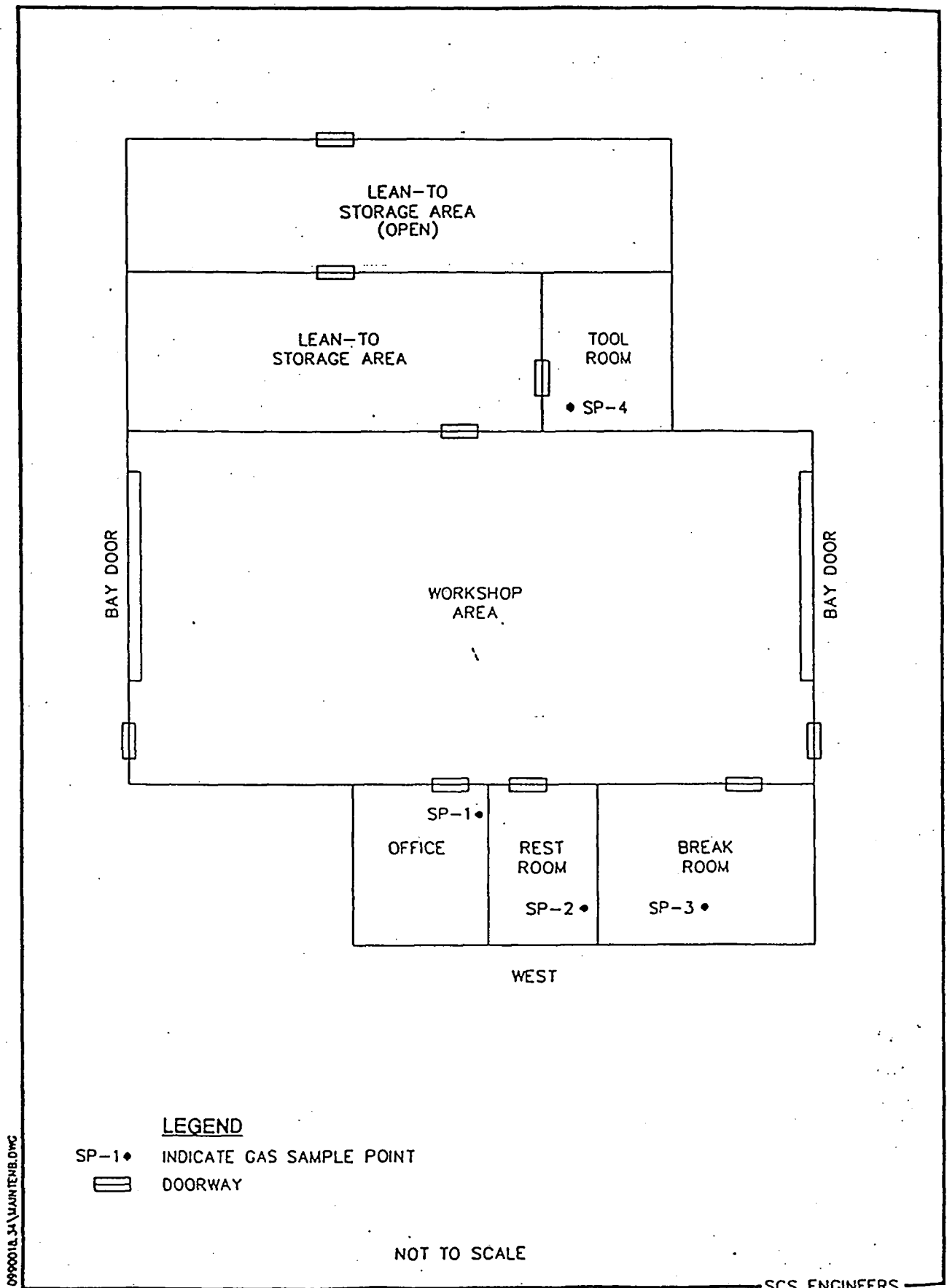
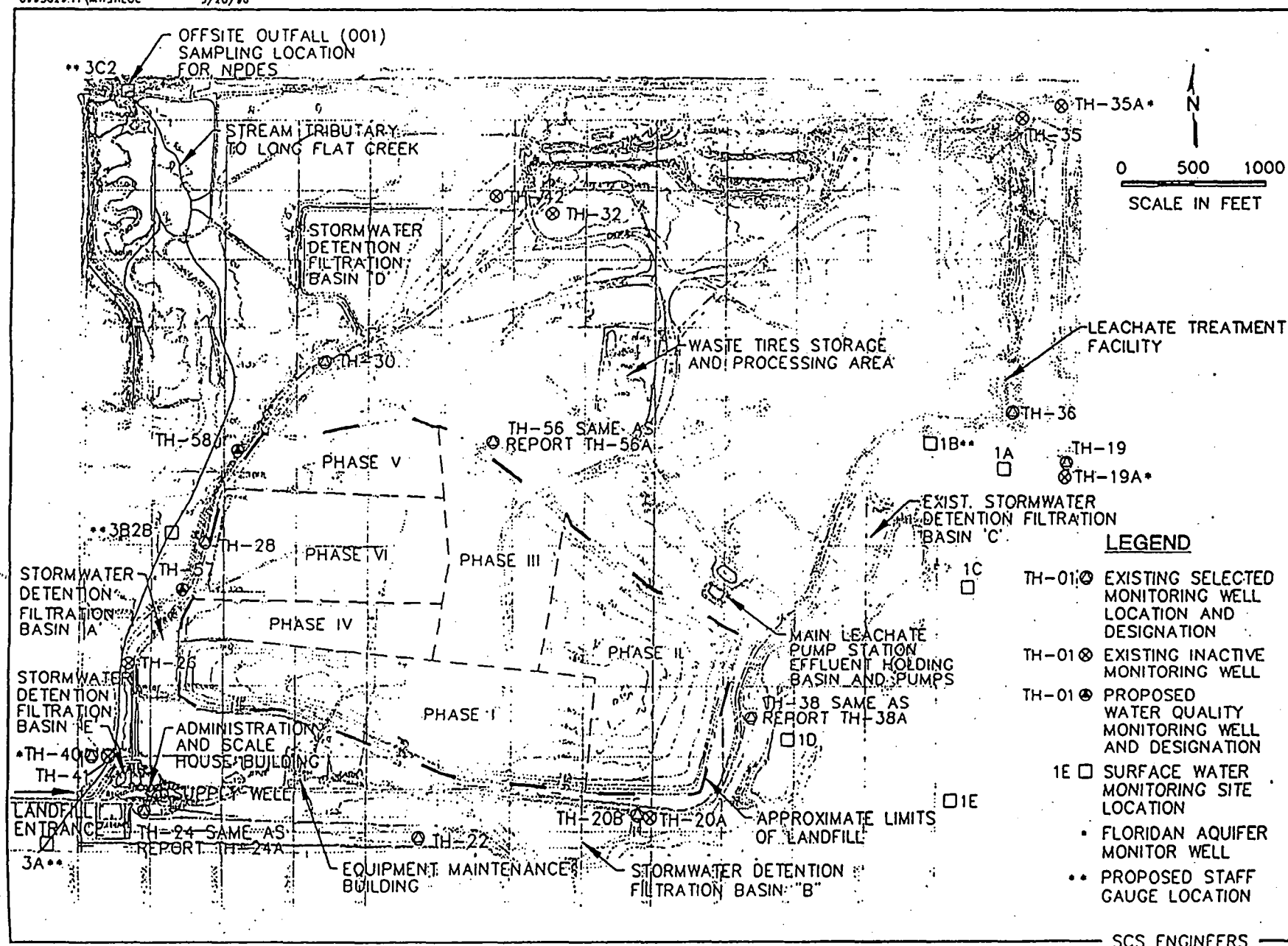


Figure 3-6. Maintenance Building LFG Monitoring Points.



Monitoring Wells and Surface Water Locations, Southeast County Landfill, Hillsborough County, Florida.

Florida Department of Environmental Protection

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

DEP Form # 62-522.600(11)
Form Title GROUND WATER MONITORING REPORT
Effective Date _____
DEP Application No. _____

GROUND WATER MONITORING REPORT.

Rule 62-522.600(11)

PART I GENERAL INFORMATION

- (1) Facility Name _____
Address _____
City _____ Zip _____
Telephone Number () _____
- (2) The GMS Identification Number _____
- (3) DEP Permit Number _____
- (4) Authorized Representative Name _____
Address _____
City _____ Zip _____
Telephone Number () _____
- (5) Type of Discharge _____
- (6) Method of Discharge _____

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Date: _____
Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # _____

Analytical Lab Comp QAP #/HRS Certification # _____

 *Comp QAP #/HRS Certification # _____

Lab Name _____

Address _____

Phone Number () _____

PART III ANALYTICAL RESULTS

Facility GMS #: _____ Sampling Date/Time: _____

Test Site ID #: _____ Report Period: _____
(year/quarter)

Well Name: _____ Well Purged (Y/N): _____

Classification of Ground Water: _____ Well Type: () Background

Ground Water Elevation (NGVD): _____ () Compliance

or (MSL): _____

Well Type: () Background
 () Intermediate
 () Compliance
 () Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units

- Attach Laboratory Reports

Law Implemented: 403.021, 403.031, 403.061, 403.087,
403.088, F.S.

History: New 5-17-72. Amended 8-31-88. Previously numbered
as 17-4.15, Formerly 17-4.150.

62-4.160 Permit Conditions. All permits issued by the Department shall include the following 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, 403.727, or 403.859 through 403.861, F.S.

A permittee is placed on notice that the Department will view 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 press 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

62-4.150(History) • 62-4.160(6)

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 reasonable 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 Section 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

62-4.160(6) (cont'd.) • 62-4.160(10)

Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.

(11) This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300 F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

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

(13) This permit also constitutes:

- (a) Determination of Best Available Control Technology (ACT)
- (b) Determination of Prevention of Significant Degradation (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.

(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

62-4.160(10) (cont'd.) - 62-4.160(15)

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.

(16) In the case of an underground injection control permit, the following permit conditions also shall apply:

(a) All reports or information required by the Department shall be certified as being true, accurate and complete.

(b) Reports of compliance or noncompliance with, or any progress reports on, requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

(c) Notification of any noncompliance which may endanger health or the environment shall be reported verbally to the Department within 24 hours and again within 72 hours, and a final written report provided within two weeks.

1. The verbal reports shall contain any monitoring or other information which indicate that any contaminant may endanger an underground source of drinking water and any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

2. The written submission shall contain a description of and a discussion of the cause of the noncompliance and, if it has not been corrected, the anticipated time the noncompliance is expected to continue, the steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance and all information required by Rule 62-520.230(4) (b), F.A.C.

(d) The Department shall be notified at least 180 days before conversion or abandonment of an injection well, unless abandonment within a lesser period of time is necessary to protect waters of the state.

(17) The following conditions also shall apply to a hazardous waste facility permit.

(a) The following reports shall be submitted to the Department:

1. Manifest discrepancy report. If a significant discrepancy in a manifest is discovered, the permittee shall attempt to rectify the discrepancy. If not resolved within 15 days after the waste is received, the permittee shall immediately submit a letter report, including a copy of the manifest, to the Department.

2. Unmanifested waste report. The permittee shall submit an unmanifested waste report to the Department within 15 days of receipt of unmanifested waste.

3. Biennial report. A biennial report covering facility activities during the previous calendar year shall

62-4.160(15) (cont'd.) - 62-4.160(17) (a)

Memorandum

Florida Department of Environmental Protection

PERMIT COVER MEMO

TO: X RICK GARRITY, Director of District Management

FROM/THROUGH:

William Kutash, ENVIRONMENTAL ADMINISTRATOR
Bob Butera 11/3/99, SUPERVISOR
Kim Ford 11/3/99 ENGINEER

DATE:

FILE NAME: SE Landfill Improvements
PROGRAM : Solid Waste

MOD. #: 35435-003
PERMIT #: SO29-256427
COUNTY : Hillsborough

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

PUBLIC NOTICE PERIOD CLOSED? N/A PETITION FILED? N/A

PERMIT SUMMARY: This modification is to allow operation of Phases V and VI in accordance with the revised leachate management plan and sequence of filling.

PROFESSIONAL RECOMMENDATION: X APPROVE DENY

EVALUATION SUMMARY: The application for operation permit modification was received on November 2, 1998. One deficiency letter was sent on December 1, 1998, and response received on December 31, 1998. The revised leachate management plan and sequence of filling were received on December 31, 1998, with replacement pages and drawings received on January 25, 1999. This permit is modified to allow the operation in compliance with Department rules.

This application was deemed complete on December 31, 1998.

Day 90/30 for this Action is March 31, 1999.

CERTIFICATION

Application No.

SE Landfill operation
Modification # 35435-003

I HEREBY CERTIFY that the engineering features described in the above referenced application (provide / ~~do not provide~~) reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Title ⁶²17. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including but not limited to the electrical, mechanical and structural features).



(Signed)

3/9/99

(Date)

(Seal)



Jeb Bush
Governor

Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

David B. Struhs
Secretary

March 10, 1999

Mr. Daryl Smith
Hillsborough County
Department of Solid Waste
P. O. Box 1110
Tampa, FL 33601

Re: Southeast County Landfill Pump Station B and
related improvements
Certification of Construction Completion
Permit No.: 35435-001-SC, Hillsborough County

Dear Mr. Smith:

On January 21, 1999, 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 Patricia Berry and Matt Matthews (Hillsborough County), Larry Ruiz and Karl Schmit (SCS Engineers), and Robert Butera and Kim Ford (FDEP).

Certification of Construction Completion for Pump Station B dated December 18, 1998 by GeoSyntec Consultants was received by the Department on December 31, 1998. Certification of Construction Completion for the tire chip trenches dated October 20, 1998 by Globex was received by the Department on January 15, 1999. Based on these certifications, supplemental information received on March 2 and 5, 1999, and relating supporting documents, FDEP approves these certifications of the above referenced facility in accordance with the conditions of the current permit #35435-001-SC.

Please be advised that Certification of Construction Completion is required for placement of the top of vault and completion of drainage layers over the location of Pump Station B. Operation of Phases V and VI are not authorized by the current operation permit until its modification.

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: Patricia Berry, HCSWD
Robert Gardner, P.E., SCS Engineers
Paul Schipfer, EPC HC
RS Robert Butera, P.E., FDEP Tampa

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

12/23

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAR - 8 1999
SOUTHWEST DISTRICT
TAMPA

In Re: The City of Tampa's)
Request for a Variance)
for the City's McKay Bay)
Refuse-To-Energy Facility)
and Hillsborough County's)
Southeast Landfill)

D.E.P.
MAR 7 8 1999
Southwest District Tampa

THE CITY OF TAMPA'S PETITION FOR A VARIANCE
FROM SECTION 403.708(13)(c), F.S., AND
SECTION 62-701.300(8)(c), F.A.C.

Petitioner, the City of Tampa ("City"), by and through its undersigned attorneys, hereby petitions the Florida Department of Environmental Protection ("DEP") to grant a variance to the City and Hillsborough County ("County"), pursuant to Section 403.201(1), Florida Statutes ("F.S."), because the City and County would suffer a significant hardship if they were required to comply with Section 403.708(13)(c), F.S., and Section 62-701.300(8)(c), Florida Administrative Code ("F.A.C."), under the conditions described in this petition. In support of this petition, the City says:

Preliminary Matters

1. Petitioner, the City of Tampa, is a political subdivision of the State of Florida. Correspondence concerning this petition may be sent to the City in care of Ms. Nancy McCann at 305 East Jackson Street, 5N, Tampa, Florida 33602. Ms. McCann's phone number is 813/274-8090.

2. The City is represented in this proceeding by the law

firm of Landers & Parsons, P.A. Correspondence concerning this petition should be sent to Landers & Parsons in care of Mr. David S. Dee at P.O. Box 271, Tallahassee, Florida 32302. Mr. Dee's phone number is 850/681-0311.

3. Hillsborough County is a political subdivision of the State of Florida. Correspondence concerning this petition may be sent to the County in care of Mr. Daryl Smith, Hillsborough County Solid Waste Management Department, Post Office Box 1110, Tampa, Florida 33601. Mr. Smith's phone number is 813/272-5680.

Factual Background

4. The City of Tampa owns the McKay Bay Refuse-to-Energy Facility ("Facility"), which is located at 107 North 34th Street, Tampa, Florida. The Facility receives and processes approximately 1,000 tons of municipal solid waste ("MSW") each day. The MSW is incinerated in four municipal waste combustor ("MWC") units, each of which can process approximately 250 tons per day ("tpd") of MSW. The Facility is operated in compliance with a DEP solid waste permit (No. 34662-001-SO).

5. The City owns a solid waste transfer station (the "Transfer Station"), which is adjacent to the McKay Bay Refuse-To-Energy Facility. The Transfer Station is operated in compliance with a DEP general permit (DEP Permit No. SO29-236548). Solid waste that cannot be processed at the Facility is diverted to the Transfer Station and then transported to Hillsborough County's Southeast Landfill for disposal.

6. The City owns and operates the Manhattan Brush Site, where citizens can deliver segregated yard trash for recycling. The City's Transfer Station also accepts segregated yard trash for recycling. Further, the City provides curbside collection of yard trash in approximately one-third of the City.

7. The Southeast Landfill ("Landfill") is located at 15960 County Road 672, Picnic, Florida. The Landfill includes a lined, Class I landfill that receives:

- (a) ash residue from the City's Facility;
- (b) "nonprocessable waste" (i.e., those types of waste that cannot be processed in the Facility); and
- (c) "bypassed waste" (i.e., the quantity of waste that exceeds the Facility's processing capacity).

The Landfill is operated in compliance with DEP Permit No. SO29-256427.

8. The City must install new air pollution control ("APC") equipment and make other improvements at the Facility to comply with the requirements of 40 CFR 60, Subpart Cb, which have been adopted by reference in DEP Rule 62-204.800(8)(b), F.A.C. These requirements also are contained in the DEP air construction permit for the Facility (DEP Permit No. 0570127-002-AC; PSD-FL-086(A)).

9. The construction and installation of the new APC equipment (i.e., "the Retrofit") will occur in two phases. Initially, the City may need to shut down the four MWC units at the Facility for approximately two weeks. The City then will restart and operate Units 1 and 2, while construction occurs on

Units 3 and 4. After the new APC equipment and other improvements are completed on Units 3 and 4, the City may shut down the entire Facility for a few days. Thereafter, the City will restart and operate Units 3 and 4, while work commences on the improvements to Units 1 and 2.

10. The Retrofit of the Facility is expected to begin in July 1999. The City anticipates that it will take 24 to 36 months to complete the Retrofit and resume normal operations at the Facility.

DEP Requirements for the Disposal of Yard Trash

11. Section 403.508(13)(c), F.S., and DEP Rule 62-701.300(8)(c), F.A.C., prohibit the disposal of yard trash, except in unlined landfills. However, Section 403.508(13)(c), F.S., also states that:

The Department recognizes that incidental amounts of yard trash may be disposed of in lined landfills. In any enforcement action taken pursuant to this paragraph, the Department shall consider the difficulty of removing incidental amounts of yard trash from a mixed solid waste stream.

12. In at least two instances, the Department has provided guidance to the regulated community concerning the proper interpretation of Section 403.508(13)(c), F.S., and Rule 72-701.300(8)(c), F.A.C. On July 15, 1992, DEP issued an interoffice memorandum regarding "yard trash disposal," which indicates that the Department will not take enforcement action against the owner of a landfill if the owner "is taking all practical measures to keep yard trash out of the mixed solid

waste stream. . . ." DEP's 1992 memorandum was supplemented by a March 2, 1998 letter to Broward County, which states:

enforcement generally will not be taken [by DEP] if a County is making a good faith effort to keep yard waste out of its lined landfill either through incineration or through separate collection with a yard waste, composting, or mulching program.

Copies of DEP's 1992 memorandum and 1998 letter are attached hereto as Exhibits "A" and "B," respectively.

The City's Yard Trash Management Practices

13. The City's normal solid waste management practices are very effective at keeping segregated loads of yard trash out of the Landfill. As noted above, the City has two sites (i.e., the Transfer Station and the Manhattan Brush Site) that accept segregated yard trash for recycling. One third of the City also enjoys the use of a curbside program for the collection of yard trash, which is recycled. The City's yard trash sites and collection program will continue to be used to recycle yard trash during the Retrofit.

14. In addition to the City's programs for recycling segregated yard trash, the City's normal solid waste management practices are very effective at keeping mixed loads of yard trash and MSW out of the Landfill. Approximately 95% of the City's solid waste disposal is via incineration at the Facility. The materials burned at the Facility include yard trash that has been mixed with and contaminated by other types of MSW. Only about 5% of the City's MSW is taken to the Landfill for disposal. With

regard to this portion of the City's waste stream, the solid waste is manually sorted at the Transfer Station so that yard trash can be removed from the MSW and then incinerated at the Facility.

15. During most of the period when the Retrofit is underway, approximately 50% of the City's MSW will be incinerated and 50% will be taken to the Landfill. For at least two brief periods during the Retrofit, 100% of the City's MSW may be taken to the Landfill.

16. It will be physically impossible to hand-sort the portion of the City's waste stream (i.e., 500 or 1,000 tons per day) that will be taken to the Landfill during the Retrofit. The City does not have the staff or the facilities to conduct a manual sorting operation of this magnitude.

17. It would be counterproductive to remove yard trash from the MSW during the Retrofit. The City will have no excess capacity in the Facility during the Retrofit. If any yard trash is removed from the mixed MSW and then taken to the Facility for incineration, the yard trash will displace an equal amount of MSW (e.g., garbage), which will need to be sent to the Landfill.

18. There are no cost-effective options available to reduce the amount of mixed yard trash that will be taken to the Landfill during the Retrofit. Theoretically, the City could expand its curbside yard trash collection program and make it mandatory, but it would take a significant amount of time, effort and money to expand the City's yard trash collection program in this manner.

This effort could not be completed before July 1999. It would not make sense to undertake such a major effort in this case because the new collection program would only be needed on a temporary basis. After the Retrofit is completed, the Facility will resume operations at 1,000 tpd and the City will resume its current yard trash management practices. Even if the City expanded its yard trash collection program, it is debatable whether the City could use or give away all of the recycled yard trash that would be produced with the new program. For all of these reasons, the City believes it is inappropriate to pursue new yard waste collection or separation programs during the time when the Facility is being upgraded.

19. The City and County recognize there will be an increase in the amount of mixed yard trash and MSW placed in the Landfill during the Retrofit. Nonetheless, the City and County believe that the City is making a "good faith effort" and using "all practical" means to minimize the amount of mixed yard trash placed in the County's Landfill. Given the City's efforts to manage yard trash, the City and County agree that the Department should not take any enforcement action against either one of them under Section 403.708(13)(c), F.S., or Rule 62-701.300(8)(c), F.A.C. Although a variance should not be required in this case, the City and County are requesting a variance to ensure there will be no dispute in the future about their compliance with DEP's regulations. Indeed, the Department's staff has encouraged the City to seek a variance in this case.

20. Granting a variance in this case will not result in any environmental harm. Instead, a variance will allow the City to avoid an economic hardship that would result as an unintended consequence of the City's efforts to comply with the new air quality regulations imposed on the City by DEP. A variance also will allow the City and County to avoid unnecessary disputes with DEP concerning the intent of the Department's 1992 memorandum and 1998 letter.

21. If a variance is granted in this case, the variance should become effective on July 1, 1999. A variance will not be needed prior to this date.

22. If a variance is granted in this case, the variance should state that the variance serves as an automatic modification to the permits for the Facility, Transfer Station and Landfill. The Department's staff has indicated that, even if the City requests and receives a variance, the City and County will need to request and receive permit modifications after the variance is issued. The City and the County would like to avoid the additional expense, paperwork, and delay associated with a permit modification. Accordingly, the City and County would like DEP's ruling on this petition for a variance to include DEP's grant of the necessary permit modifications, if any, to the City's permits and the County's permit.

WHEREFORE, in light of the facts set forth herein, the City of Tampa respectfully requests the Department of Environmental Protection to grant a variance to the City and the County,

pursuant to Section 403.201, F.S., and thereby provide relief from the requirements of Section 403.708(13)(c), F.S., and Section 62-701.300(8)(c), F.A.C., during the time when the City is completing the improvements to the City's McKay Bay Refuse-to-Energy Facility.

RESPECTFULLY SUBMITTED this 4th day of March, 1999.

LANDERS & PARSONS, P.A.

A handwritten signature in dark ink, appearing to read "D.S. Dee", is written over a horizontal line.

David S. Dee
Florida Bar No. 281999
Post Office Box 271
Tallahassee, Florida 32302
Phone: (850) 681-0311
FAX: (850) 224-5595

CERTIFICATE OF SERVICE

I hereby certify that the original and one copy of the foregoing, and the City's check (No. 00074279) in the amount of \$2,000, has been furnished by hand delivery to the Clerk, Department of Environmental Protection, 3900 Commonwealth Boulevard, Douglas Building, 6th Floor, Tallahassee, Florida, and copies of this petition have been served by United States Mail to those listed below on this 4th day of March 1999:

Mary Jean Yon
Department of Environmental Protection
Room 351
Twin Towers Office Building
Tallahassee, Florida 32399

John Ruddell
Department of Environmental Protection
Room 425
Twin Towers Office Building
Tallahassee, Florida 32399

Chris McGuire
Department of Environmental Protection
Office of General Counsel, 6th Floor
2600 Blair Stone Road
Twin Towers Office Building
Tallahassee, Florida 32399

Dr. Richard Garrity
Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

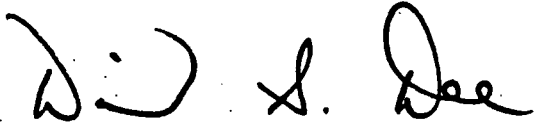
Kim Ford
Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

Daryl Smith
Hillsborough County Department of Solid Waste
Post Office Box 1110
Tampa, Florida 33601

Nancy McCann
Urban Environmental Coordinator
Office of Environmental Coordination
306 E. Jackson Street,
City Hall Plaza, 5N
Tampa, Florida 33602

Mike Salmon
Coordinator
Department of Environmental Services
Public Works Projects
306 E. Jackson Street, City Hall Plaza
Tampa, Florida 33602

Paul Schipfer
Environmental Protection Commission
1410 N 21st Street
Tampa, Florida 33605



David S. Dee

/tampavar.4

JAN-13-99 WED 10:31 AM CITY OF TAMPA ENV COORD
JAN-08'99 (PRI) 14:32 FDEP

FAX NO. 813 277-0935

P. 1
P. 002



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

WM/SWM-03.1

7-15-92

TO:	NAME: _____
FROM:	NAME: _____
DATE:	DATE: _____

Interoffice Memorandum

TO: Directors of District Management
District Waste Program Administrators

FROM: John M. Ruddell, Director *JMR*
Division of Waste Management

DATE: July 15, 1992

SUBJECT: Yard Trash Disposal

We have received several questions concerning the disposal of small amounts of yard trash which have been mixed in with the general solid waste stream. Some counties are apparently concerned that the Department will interpret Section 403.708(15)(c), Florida Statutes, very strictly and cite them if any yard trash is found at their lined landfill, no matter how little.

The intent of the yard trash ban was to create an incentive for counties to establish separate collection services and uses for yard trash. The disposal of yard trash in lined landfills poses no particular environmental threat. On the other hand, the Department has no authority to create an exemption from a specific statutory requirement.

Therefore, it will be the Department's policy not to take enforcement action against owners or operators of lined landfills for disposal of incidental amounts of yard trash collected from residences, provided the county has established separate collection services for yard trash from residences and has established composting or mulching operations. What constitutes an incidental amount will be determined on a case-by-case basis. If a county is taking all practical measures to keep yard trash out of the mixed solid waste stream, the small amounts that are not kept out should be considered incidental.

JMR/cmv

Post-It™ brand fax transmittal memo 7671		# of pages 3
To <i>David Dee</i>	From <i>G. Grotelless</i>	
Co.	Co.	
Dept.	Phone #	
Fax #	Fax #	

EXHIBIT A

JAN-13-99 WED 10:31 AM CITY OF TAMPA ENV COORD
 JAN-08'99(FRI) 14:32 FDEP

FAX NO. 813 277 9035

P. 2
 P. 003

WM/SWM-05.3 3-2-98



Department of Environmental Protection

Lawton Chiles
 Governor

Twin Towers Office Building
 2600 Blair Stone Road
 Tallahassee, Florida 32399-2400

Virginia B. Wetherell
 Secretary

March 2, 1998

Ms. Mary Beth Busutil, Director
 Broward County Solid Waste Operations Division
 201 South Andrews Avenue
 Ft. Lauderdale, Florida 33301-1831

Dear Ms. Busutil:

This letter is a follow-up to our meeting on February 24 when we met to discuss the issue of incidental amounts of yard waste in the Broward Interim Contingency (BIC) Landfill. I appreciate the tour of your operation and the thorough briefing concerning the flow of solid waste in Broward County. In particular, I appreciate all the statistics that you were able to provide concerning yard waste and the steps that the County has taken to keep it out of the BIC Landfill.

You have referenced a July 15, 1992 Department policy memo that was signed by John Ruddell, the Director of the Division of Waste Management that addresses this concept of "incidental amounts of yard waste." The primary purpose of that memo was to guide both the regulated community and our District offices on the question of whether small, or incidental, amounts of yard waste in a landfill's incoming waste stream could trigger enforcement. As stated at our meeting, the Department's position is that enforcement generally will not be taken if a County is making a good faith effort to keep yard waste out of its lined landfill either through incineration or through separate collection with a yard waste composting or mulching program. We also discussed the concept of trying to define the term "incidental" in such a way as to quantify it. We have not presently done that either by rule or policy declaration and feel that it is not necessary in your situation. Rather, that policy memo and our case-by-case decisions focus on what practical measures a particular county has taken to keep yard waste out of the mixed solid waste stream. In that regard, we feel Broward

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

Printed on recycled paper.

EXHIBIT B

JAN-13-99 WED 10:32 AM CITY OF MPA ENV COORD FAX NO. 813 27 735
JAN-08-99(PRI) 14:33 FDEP

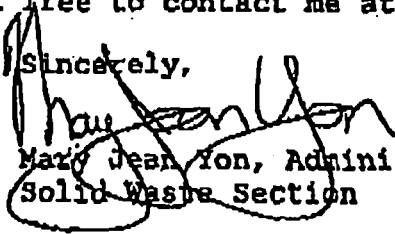
P. 3
P. 004

Ms. Mary Beth Busutil, Director
Page Two
March 2, 1998

County excels and I hope you will continue the measures you have put in place to collect and mulch what little yard trash is received at the BIC Landfill. It should also be noted that our Southeast District Office has not indicated that this is an issue deserving of enforcement.

I hope you find this determination helpful and I encourage you to keep up the good operation of your landfill. If you have any further questions, please feel free to contact me at 850/921-9976.

Sincerely,


Mary Jean Yon, Administrator
Solid Waste Section

MJY/lr

cc: Chris McGuire
Lee Hoefert
W. Joe Moss
Valerie Fernandez Settles
Richard Brossard
Thomas M. Henderson
Rick Wilkins

SCS ENGINEERS

March 5, 1999
File No. 0995029.14

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

D.E.P.
MAR 05 1999
Southwest District Tampa

Subject: Additional Information to Florida Department of Environmental Protection regarding the Southeast County Landfill (SCLF), Phases V and VI Operations Modification, Pending No. 35435-003, Hillsborough County, Florida

Dear Mr. Ford:

On behalf of the Hillsborough County Solid Waste Management Department (HCSWMD), SCS Engineers (SCS) is pleased to provide the additional information as requested by the Florida Department of Environmental Protection (FDEP). The following information addresses the additional information requested by the FDEP as discussed in our meeting on January 21, 1999. Each of the FDEP's requests is restated in bold below, followed by our response.

FDEP Request – The as-built survey for the chipped tire trenches indicate end points between several trenches with excessive elevation differences.

Response – Attached find a revised as-built survey by Paul F. Akers Professional Surveyors and Mapper (PFA). Survey points 8-S, 9-S, and 14-N were re-surveyed on February 17, 1999, and the new elevations are shown on the as-built survey. The end point 15-N appears to be in line with the profile of the existing east-west leachate header. Although end point 8-S shows an isolated high point, SCS expects that as Phase VI is loaded with waste, the slopes of the leachate headers will be towards Permanent Pump Station "B" (PPS-B).

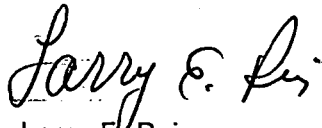
End points 4-W and 5-W represent the top of the tire trench (the bottom elevation was not identified). The end points 14-S and 17-S appear to be in line with the elevations near the internal berm between Phases IV and VI. The low condition near the internal berm was expected and it is due to the landfill low point expanding towards Phase VI. As you are aware, settlement at the SCLF will continue in Phase VI to create an ultimate low point in the location where PPS-B was constructed.



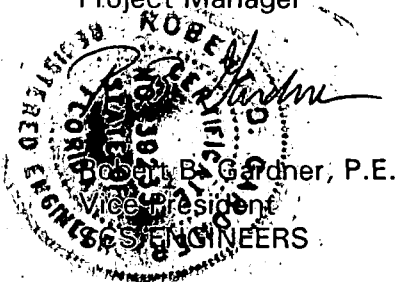
Mr. Kim B. Ford
March 5, 1999
Page 2

Please do not hesitate to call if you have any questions.

Very truly yours,



Larry E. Ruiz
Project Manager



LER/RBG:ler
Enclosure

cc: Patricia V. Berry, HCSWMD
Paul Schipfer, EPC

SCS ENGINEERS

March 3, 1999
File No. 0995029.14

D.E.P.

MAR 05 1999

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

Southwest District Tampa

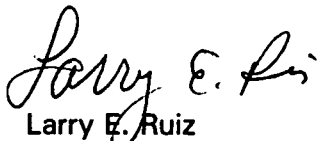
Subject: Additional Information to Florida Department of Environmental Protection regarding the Southeast County Landfill (SCLF), Phases V and VI Operations Modification, Pending No. 35435-003, Hillsborough County, Florida

Dear Mr. Ford:

Enclosed find the Leachate Management Plan (LMP) page 3-4 as a replacement page. The replacement page 3-4 provided in Appendix A of our correspondence dated March 2, 1999 was missing the last two lines of the page.

Please do not hesitate to call if you have any questions.

Very truly yours,



Larry E. Ruiz
Project Manager



Robert B. Gardner, P.E.
Vice President
SCS ENGINEERS

LER/RBG:ler
Enclosure

cc: Patricia V. Berry, HCSWMD
Paul Schipfer, EPC



MAR - 5 1999

SOUTHWEST DISTRICT
TAMPA

11. Cap the stormwater inlet No. 2 prior to filling in Lift 7B - Cell I (see Detail 1 Drawing No. 7). Submit to the FDEP and EPC a letter certified by a professional engineer confirming the completion of this activity.
12. Continue placement of refuse Lift 7C - Cell A on the northeast corner of Phase V. Filling will progress in a westerly direction (counterclockwise) across Phase V and western portions of Phase VI. As filling progresses the rain tarp that was placed over Lifts 7A and 7B will be removed. At completion, Lift C will receive intermediate cover around the landfill perimeter slopes (6H:1V) and top slopes (30H:1V).
13. Continue placement of refuse Lift 7D - Cell A on the northwest corner of Phase VI against Lift C. Filling will progress in an easterly direction across Phase VI. As filling progresses the rain tarp that was placed over Lift 7B will be removed.
14. The placement of Lifts 7E and 7F consists of filling the valley area where Phases V and VI are adjacent to Phases III and IV. These lifts will overlap over Phases I, III and IV. Filling will continue with Lift 7E - Cell A on the southeast corner of Phase VI. Filling will progress in a northerly direction across Phases III, V, and VI. At completion, Lift E will receive intermediate cover around the landfill perimeter slopes (6H:1V) and top slopes (30H:1V).
15. Continue placement of refuse Lift 7F - Cell A in the middle of Phase III adjacent to the existing service haul road. Filling will progress in a westerly direction across Phases I, III, IV, and VI. At completion, Lift F will receive intermediate cover around the landfill perimeter slopes (6H:1V) and top slopes (30H:1V).

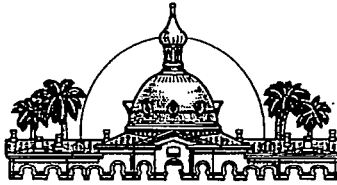
Landfilling will continue on Phase I Lift 8 as described in Section 5.3 and as shown on Drawing No. 8 of the 1994 Operation Permit Renewal Application.

3.3 LEACHATE DISPOSAL SYSTEM

The HCSWMD disposes of leachate and treated effluent at two of the County wastewater treatment plants. Tanker trucks (both County and private contract fleets) are used to transport the leachate from the SCLF to the treatment plants. A small quantity of leachate also is evaporated in the active landfill cell area using truck-mounted sprayers. When the on-site treatment plant is operational, treated effluent also is disposed through spray irrigation pursuant the current operations permit. Leachate and treated effluent quantities are measured with flow meters.

3.3.1 SPRAY IRRIGATION SYSTEM

The stationary spray irrigation system that was originally installed in 1994 has been abandoned and the stationary sprinkler heads were removed. The HCSWMD purchased and installed a mobile irrigation system consisting of two irrigation reels manufactured by ABI Irrigation, Model ABI 90 AT 1250. The mobile irrigation reels are stationed on the west side of Phase I and on the east side of Phase II as shown on Figure 3-1. Only treated effluent will be disposed through the spray irrigation system.



Hillsborough County
Florida

BOARD OF COUNTY COMMISSIONERS

Pat Frank
Chris Hart
Jim Norman
Jan K. Platt
Thomas Scott
Ronda Storms
Ben Wacksman

Office of the County Administrator
Daniel A. Kleman
March 1, 1999

Deputy County Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunzeker
Jimmie Keel

D.E.P.

MAR 03 1999

Southwest District Tampa

Mr. Sterlin Woodard, Chief
Air Compliance Section
Environmental Protection Commission
of Hillsborough County
1410 North 21st Street
Tampa, Florida 33605

Subject: Annual Operation Report for Air Pollutant Emitting Facility
Hillsborough Heights/Taylor Road Landfills and Southeast County Landfill
Hillsborough County Solid Waste Management Department

Dear Mr. Woodard:

The Hillsborough County Solid Waste Management Department (HCSWMD) and SCS Engineers (SCS) are submitting the attached Annual Operation Report for Air Pollutant Emitting Facility (report) for the landfill gas (LFG) flares units at the Hillsborough Heights and Taylor Road Landfills, and also the Annual Report for Southeast County Landfill. The attached reports are for calendar year 1998.

Should you have any questions, please contact me at 276-2908.

Sincerely,

Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

PVB:elj

xc: Daryl H. Smith, SWMD
Larry E. Ruiz, SCS
Kim Ford, FDEP



Department of Environmental Protection

DIVISION OF AIR RESOURCES MANAGEMENT

ANNUAL OPERATING REPORT FOR AIR POLLUTANT EMITTING FACILITY

See Instructions for Form No. 62-210.900(5).

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAR - 3 1999
SOUTHWEST DISTRICT
TAMPA

I. FACILITY REPORT

A. REPORT INFORMATION

1. Year of Report 1998	2. Number of Emissions Units in Report 1
----------------------------------	--

B. FACILITY INFORMATION

1. Facility ID 0570854	2. Facility Status A	3. Date of Permanent Facility Shutdown N/A
4. Facility Owner/Company Name Hillsborough County Solid Waste Management Department		
5. Site Name Southeast County Landfill		
6. Facility Location Street Address or Other Locator: 15960 CR 672 City: Picnic County: Hillsborough Zip Code: 33503		
7. Facility Compliance Tracking Code A	8. Governmental Facility Code 3	9. Facility SIC(s) 4953
10. Facility Comment Active Class I Municipal Landfill: fugitive emissions		

C. FACILITY HISTORY INFORMATION

1. Change in Facility Owner/Company Name During Year? N/A	Previous Name	2. Date of Change
--	---------------	-------------------

D. OWNER/CONTACT INFORMATION

1. Owner or Authorized Representative		
Name and Title Daryl H. Smith, Director		
Mailing Address Organization/Firm: Hillsborough County Solid Waste Management Department Street Address: P.O. Box 1110 City: Tampa State: FL Zip Code: 33601		
Telephone: (813) 272-5680		Fax: (813) 276-2960
2. Facility Contact		
Name and Title Mr. Matt Matthews, Senior Engineering Technician		
Mailing Address Organization/Firm: Hillsborough County Solid Waste Management Department Street Address: P.O. Box 1110 City: Tampa State: FL Zip Code: 33601		
Telephone: (813) 671-7707		Fax: (813) 671-7739

E. OWNER OR AUTHORIZED REPRESENTATIVE STATEMENT

I hereby certify that the information given in this report is correct to the best of my knowledge.	
Signature <u>Daryl H. Smith</u>	Date <u>3/1/99</u>

Facility ID: 0570854

Emissions Unit ID: 001

II. EMISSIONS UNIT REPORT

A. EMISSIONS UNIT INFORMATION

1. Emissions Unit Description NESHAPS Class I Landfill		
2. Emissions Unit ID 001	3. Emissions Unit Classification R	4. Operated During Year? Y
5. DEP Permit or PPS Number 0570854-001-AV	6. Emissions Unit Status A	7. Ozone SIP Base Year Emissions Unit? Y
8. Emissions Unit Startup Date Nov-1984	Long-term Reserve Shutdown Date N/A	10. Permanent Shutdown Date N/A

B. EMISSION POINT/CONTROL INFORMATION

1. Emissions Point Type No true Emission Point (Fugitive Emissions)
2a. Description of Control Equipment 'a'
2b. Description of Control Equipment 'b'

C. EMISSIONS UNIT OPERATING SCHEDULE INFORMATION

1. Average Annual Operation 24 hours/day 7 days/week	2. Total Operation During Year (hours/year) 8,760
3. Percent Hours of Operation by Season DJF: 25% MAM: 25% JJA: 25% SON: 25%	
4. Average Ozone Season Operation (June 1 to August 31) 24 hours/day 7 days/week	5. Total Operation During Ozone Season (days/season) 92

Facility ID: 0570854

Emissions Unit ID: 001

D. EMISSIONS UNIT COMMENT

E. EMISSIONS INFORMATION BY PROCESS/FUEL

(1) PROCESS/FUEL INFORMATION

1. SCC 5-02-006-02	2. Description of Process or Type of Fuel Active Class I Municipal Landfill: fugitive emissions	
3. Annual Process or Fuel Usage Rate 120	4. Ozone Season Daily Process or Fuel Usage Rate N/A	5. SCC Unit Acres of Landfill
6. Fuel Average % Sulfur N/A	7. Fuel Average % Ash N/A	8. Fuel Heat Content (mmBtu/SCC Unit) N/A

(2) EMISSIONS INFORMATION

1a. Pollutant 'a' Volatile Organic Compounds		<input type="checkbox"/> Below Threshold <input type="checkbox"/> Not Emitted
2a. Annual Emissions (ton/year) 6.47	3a. Ozone Season Daily Emissions (lb/day) N/A	4a. Emissions Method Code 3
5a. Emissions Calculation (Show separately both annual and daily emissions calculations) (See attachment page 1-1)		

**Southeast County Landfill
Annual Operating Report 1998
Calculations**

Volatile Organic Compounds (VOCs) emissions

According to 2/98 version of Chapter 2.4 of the AP-42 Note C of Table 2.4-2, VOCs content default can be determined (for non-NSPS/EG compliance) by:

39% of NMOC (as hexane) by weight.

According to LAEE Model run based on Tier 2 field analysis in 1997, the following mass emission rate for NMOC was calculated (see attached model output):

NMOCs = 15.05 Mg/yr

$[0.39] \times [15.05 \text{ Mg/yr}] \times [1 \text{ ton}/0.907 \text{ Mg}] = 6.47 \text{ VOCs (tons/yr)}$

VOCs = 5.87 Mg/yr

VOCs = 6.47 ton/yr

35.45 lb/day

Model Parameters

Lo : 169.90 m³ / Mg ***** User Mode Selection *****
k : 0.0500 1/yr ***** User Mode Selection *****
NMOC : 116.00 ppmv ***** User Mode Selection *****
Methane : 50.0000 % volume
Carbon Dioxide : 50.0000 % volume

Landfill Parameters

Landfill type : No Co-Disposal
Year Opened : 1983 Current Year : 1998 Closure Year: 2028
Capacity : 9767010 Mg
Average Acceptance Rate Required from
Current Year to Closure Year : 217132.53 Mg/year

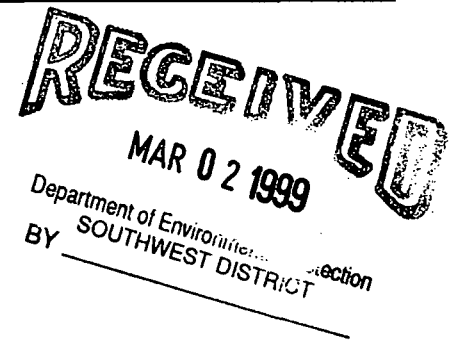
Model Results

Year	Refuse In Place (Mg)	NMOC Emission Rate (Mg/yr)	(Cubic m/yr)
1984	9.484E+04	6.700E-01	1.869E+02
1985	6.945E+05	4.873E+00	1.360E+03
1986	1.266E+06	8.672E+00	2.419E+03
1987	1.667E+06	1.108E+01	3.092E+03
1988	2.048E+06	1.323E+01	3.692E+03
1989	2.230E+06	1.388E+01	3.871E+03
1990	2.385E+06	1.429E+01	3.988E+03
1991	2.469E+06	1.419E+01	3.958E+03
1992	2.517E+06	1.384E+01	3.860E+03
1993	2.571E+06	1.354E+01	3.778E+03
1994	2.644E+06	1.340E+01	3.738E+03
1995	2.727E+06	1.333E+01	3.720E+03
1996	2.849E+06	1.355E+01	3.779E+03
1997	3.008E+06	1.401E+01	3.908E+03
1998	3.253E+06	1.505E+01	4.199E+03
1999	3.470E+06	1.585E+01	4.423E+03
2000	3.687E+06	1.661E+01	4.635E+03
2001	3.904E+06	1.734E+01	4.837E+03
2002	4.122E+06	1.803E+01	5.029E+03
2003	4.339E+06	1.868E+01	5.211E+03
2004	4.556E+06	1.930E+01	5.385E+03
2005	4.773E+06	1.990E+01	5.551E+03
2006	4.990E+06	2.046E+01	5.708E+03
2007	5.207E+06	2.100E+01	5.857E+03
2008	5.424E+06	2.151E+01	6.000E+03
2009	5.641E+06	2.199E+01	6.135E+03
2010	5.859E+06	2.245E+01	6.264E+03
2011	6.076E+06	2.289E+01	6.386E+03
2012	6.293E+06	2.331E+01	6.503E+03
2013	6.510E+06	2.371E+01	6.613E+03
2014	6.727E+06	2.408E+01	6.719E+03
2015	6.944E+06	2.444E+01	6.819E+03
2016	7.161E+06	2.478E+01	6.914E+03
2017	7.379E+06	2.511E+01	7.005E+03
2018	7.596E+06	2.542E+01	7.091E+03
2019	7.813E+06	2.571E+01	7.173E+03
2020	8.030E+06	2.599E+01	7.252E+03
2021	8.247E+06	2.626E+01	7.326E+03
2022	8.464E+06	2.651E+01	7.396E+03
2023	8.681E+06	2.675E+01	7.464E+03
2024	8.898E+06	2.698E+01	7.528E+03
2025	9.116E+06	2.720E+01	7.588E+03
2026	9.333E+06	2.741E+01	7.646E+03
2027	9.550E+06	2.760E+01	7.701E+03

SCS ENGINEERS

March 2, 1999
File No. 0995029.14

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



Subject: Additional Information to Florida Department of Environmental Protection regarding the Southeast County Landfill (SCLF), Phases V and VI Operations Modification, Pending No. 35435-003, Hillsborough County, Florida

Dear Mr. Ford:

On behalf of the Hillsborough County Solid Waste Management Department (HCSWMD), SCS Engineers (SCS) is pleased to provide the additional information as requested by the Florida Department of Environmental Protection (FDEP). The following information addresses the additional information requested by the FDEP as discussed in our meeting on January 21, 1999. Each of the FDEP's requests is restated in bold below, followed by our response.

FDEP Request 1 – Revise the LMP pages 3-2, 3-3, 3-4, 3-6, 4-1, 4-3, 5-1, and 6-1. Revise the settlement data forms to include the Permanent Pump Station "B" (PPS-B) settling plates and Figure 4-1 to include the new capacity of the pump in Permanent Pump Station A (PPS-A).

Response – Appendix A includes the revisions requested and replacement pages 3-2, 3-3, 3-4, 3-6, 4-1, 4-3, 5-1, and 6-1 are provided as replacement pages.

FDEP Request 2 – Revise the LMP Detail 2 on Drawing No. 7 of 9.

Response – Appendix B includes the revised detail showing a 2-foot filter fabric overlap and the specifications for the trench materials are shown on the revised drawing 7 of 9.

FDEP Request 3 – Provide quality control data of the filter fabric used on the tire chip trenches.

Response – Manufacturer's quality control data of the filter fabric used on the tire chip trenches is presented in Appendix C.

FDEP Request 4 – Provide concrete trucks tickets to ensure compliance with the Specifications Section 03410-3.01(E).

Response – The concrete truck tickets are presented in Appendix D. The tickets show that the concrete placement met the Specifications requirements.



Mr. Kim B. Ford
March 2, 1999
Page 2

FDEP Request 5 – Provide gradation test for the coarse sand used in the filter system for PPS-B.

Response – The coarse sand gradation test is presented in Appendix E.

FDEP Request 6 – Provide letter from Waste Management Inc. of Florida (WMI) concerning the repairs to the Phase VI crushed pipe identified during the leachate collection system inspection.

Response – Letter presented in Appendix F.

FDEP Request 7 – Provide status of cracks identified in the containment area by Tank Engineering and Consultants Inc. (TEAM) during the inspection of the leachate storage tank.

Response – The cracks identified by TEAM are cracks that were previously sealed by the HCSWMD. Based on TEAM's observations, the HCSWMD will reinspect and reseal the cracks as part of the regular maintenance schedule at the leachate treatment facility. If any of the cracks need to be repair, the HCSWMD intends to complete the repairs before the end of fiscal year 1999.

FDEP Request 8 – Provide sample form to show that the leachate storage tank is inspected per 62-701.400(6).

Response – The sample form is presented in Appendix G.

FDEP Request 9 – Provide proof of purchase for the PPS-B concrete epoxy.

Response – The epoxy data and manufacturer brochures are presented in Appendix H.

FDEP Request 10 – Explain why Lucas Technologies, Inc. (LTI) indicates that two different types of pumps were purchased.

Response – The pumps and motors for both units are the same type, the difference is as follows: the pump currently installed in PPS-B includes a wheeled casing and is designated as model WSDPT 27-1. The backup pump, which does not include the wheeled casing, is designated TPS 27-1.

FDEP Request 11 – The tire trenches certification report Page No. 8 by Globex Engineering and Development states that a minimum of 12-inch fabric overlap was used and not 24-inch as shown on the drawings.

Response – SCS contacted Mr. Ali Khatami from Globex to review the issue, and he provided a revised Page No. 8, as presented in Appendix I. In our discussions, Mr. Khatami explained that the geotextile needed to be pulled to obtain an adequate overlap, yet there were occasions where the overlap was below 24 inches, but not below 12 inches.

Mr. Kim B. Ford
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FDEP Request 12 - Clean sediment in PPS-B before completing the final backfill.

Response – On January 29, 1999, WMI cleaned the interior of PPS-B. Appendix J presents a letter from the HCSWMD indicating that the work was completed.

FDEP Request 13 – Inspect the condition of Phases V and VI perimeter liner penetrations of stormwater inlets No. 1 and No. 2.

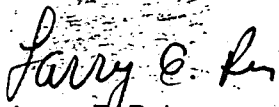
Response – On February 1, 1999, the HCSWMD inspected the existing stormwater inlets penetrations/boot connections and found them to be in good condition. Appendix K presents a letter from the HCSWMD indicating that the inspection was completed.

FDEP Request 14 – The as-built survey for the chipped tire trenches indicate end points between several trenches with excessive elevation differences.

Response – SCS is working with WMI to confirm the elevations of the end points. The information will be forwarded to the FDEP upon completion. SCS believes the discrepancy is due to a misidentification of the survey points by WMI's survey contractor between top and inverts of the trench.

Please do not hesitate to call if you have any questions.

Very truly yours,


Larry E. Ruiz
Project Manager


Robert B. Margner, P.E.
Vice President
SCS ENGINEERS

LER/RBG:ler
Enclosure

cc: Patricia V. Berry, HCSWMD
Paul Schipfer, EPC

APPENDIX A
LMP REVISIONS AND FIGURE 4-1

The initial filling in Phases V and VI will be Lift 7. The configuration of Lift 7 meets the loading requirements established by Ardaman and Associates, Inc. for the SCLF. To clarify and facilitate the management of the different filling stages, Lift 7 has been divided into six intermediate lifts (i.e., 7A through 7F). Attachment A presents the sequence drawings for Lift 7 - Phases V and VI. The activation sequence for Phases V and VI will be as described below and the activities described will be completed in numerical order.

3.2.1 PHASE V ACTIVATION

1. Install rain tarp over inactive areas of Phase V and inspect the existing liner boot of stormwater inlet No. 1 and boot tarp to stormwater inlet No. 1.
2. To prevent leachate in Phase V from entering the LCRS of Phase VI, LCRS valves No. 1, 2, 3, 5, and 6 must be closed (see Attachment A, Drawing No. 3).
3. LCRS valve No. 4 into the existing TPS-4 will remain open. Connect TPS-4 discharge to the existing 6-inch HDPE leachate force main. The leachate from Phase V will be collected in TPS-4 from which it will be pumped to the existing MLPS.
4. Open TPS-4 valve No. 8.
5. Remove tarp from Cell A and connect the LCRS between Phases V and III by constructing trenches through the interior lined berm at the locations shown on Phase V Activation Plan Drawing No. 3 and Detail 2 Drawing No. 7 of Attachment A.
6. Submit to the FDEP and EPC a letter certified by a professional engineer confirming the completion of activities 1 through 5.
7. Since the LCRS in Phase VI still will not be connected to Phases III, IV, or V, PPS-B will continue to pump stormwater from Phase VI into the SCLF northern perimeter ditch.
8. Begin placement of refuse Lift 7A - Cell A on the southeast corner of Phase V. Filling will progress in a westerly direction across Phase V. The rain tarp will be removed in sections as needed. The rain tarp will be re-used over completed cells. The stormwater runoff from the rain tarp will be maintained separate from the active cells by a lined berm (see Section A Drawing No. 9 of Attachment A). The stormwater runoff from the rain tarp over inactive areas will be conveyed into the stormwater inlet No. 1 in Phase V. Stormwater runoff from completed cells will be conveyed to the existing perimeter ditches.
9. Construct energy dissipator No. 5 prior to filling in Lift 7A - Cell H.
10. Cap the stormwater inlet No. 1 prior to filling in Lift 7A - Cell I (see Detail 1 Drawing No. 7). Submit to the FDEP and EPC a letter certified by a professional engineer confirming the completion of this activity.

3.2.2 PHASE VI ACTIVATION

1. Install rain tarp over inactive areas of Phase VI and inspect the existing liner boot of stormwater inlet No. 2 and boot tarp to stormwater inlet No. 2.
2. Install the pump from TPS-3 into PPS-A.
3. Connect the discharge from PPS-B into PPS-A.
4. Open LCRS valves No. 1, 2, 3, and 6. LCRS valve No. 5 will remain closed.
5. Remove TPS-3 and connect the LCRS header to PPS-B. Remove TPS-4, TPS-5, and related 6-inch diameter force main in Phase VI as shown on the Phase VI Activation Plan on Drawing No. 3 Attachment A.
6. Connect the LCRS between Phases VI, III, and IV by constructing trenches through the interior lined berm at the locations shown on Drawing No. 3 of Attachment A. Remove and replace tarp sections as needed.
7. Submit to the FDEP and EPC a letter certified by a professional engineer confirming the completion of activities 1 through 6.
8. As filling progresses, remove the sand pre-load to a maximum of 150 feet ahead of the active cell to a depth of 3 feet above the existing top of clay maintaining the following guidelines:
 - Excavation maximum slopes of 2H:1V.
 - Setback of 10 feet from the centerline of the access pipes to PPS-B.
 - Setback of 50 feet from the centerline of PPS-B.
 - Maintain a minimum sand cover of 12 inches over the tire trenches.
9. Begin placement of refuse in Lift 7B - Cell A on the northeast corner of Phase VI. Filling will progress in a westerly direction across Phase VI. The rain tarp and sand pre-load is to be removed as needed. The rain tarp will be re-used over completed cells. The stormwater runoff from the rain tarp will be maintained separate from the active cells by a lined berm (see Section A Drawing No. 9 of Attachment A). The stormwater runoff from the rain tarp over inactive areas will be conveyed into the stormwater inlet No. 2 in Phase VI. Stormwater runoff from completed cells will be conveyed to the existing perimeter ditches.
10. Remove the existing settling plate prior to filling in Lift 7B - Cell E. The settlement of the SCLF sump will continue to be monitored at the settling plates on PPS-B. In the future, the settlement plates on PPS-B will be removed prior to refuse placement in Lift 12.

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SOUTHWEST DISTRICT
TAMPA

11. Cap the stormwater inlet No. 2 prior to filling in Lift 7B - Cell I (see Detail 1 Drawing No. 7). Submit to the FDEP and EPC a letter certified by a professional engineer confirming the completion of this activity.
12. Continue placement of refuse Lift 7C - Cell A on the northeast corner of Phase V. Filling will progress in a westerly direction (counterclockwise) across Phase V and western portions of Phase VI. As filling progresses the rain tarp that was placed over Lifts 7A and 7B will be removed. At completion, Lift C will receive intermediate cover around the landfill perimeter slopes (6H:1V) and top slopes (30H:1V).
13. Continue placement of refuse Lift 7D - Cell A on the northwest corner of Phase VI against Lift C. Filling will progress in an easterly direction across Phase VI. As filling progresses the rain tarp that was placed over Lift 7B will be removed.
14. The placement of Lifts 7E and 7F consists of filling the valley area where Phases V and VI are adjacent to Phases III and IV. These lifts will overlap over Phases I, III and IV. Filling will continue with Lift 7E - Cell A on the southeast corner of Phase VI. Filling will progress in a northerly direction across Phases III, V, and VI. At completion, Lift E will receive intermediate cover around the landfill perimeter slopes (6H:1V) and top slopes (30H:1V).
15. Continue placement of refuse Lift 7F - Cell A in the middle of Phase III adjacent to the existing service haul road. Filling will progress in a westerly direction across Phases I, III, IV, and VI. At completion, Lift F will receive intermediate cover around the landfill perimeter slopes (6H:1V) and top slopes (30H:1V).

Landfilling will continue on Phase I Lift 8 as described in Section 5.3 and as shown on Drawing No. 8 of the 1994 Operation Permit Renewal Application.

3.3 LEACHATE DISPOSAL SYSTEM

The HCSWMD disposes of leachate and treated effluent at two of the County wastewater treatment plants. Tanker trucks (both County and private contract fleets) are used to transport the leachate from the SCLF to the treatment plants. A small quantity of leachate also is evaporated in the active landfill cell area using truck-mounted sprayers. When the on-site treatment plant is operational, treated effluent also is disposed through spray irrigation pursuant the current operations permit. Leachate and treated effluent quantities are measured with flow meters.

3.3.1 SPRAY IRRIGATION SYSTEM

The stationary spray irrigation system that was originally installed in 1994 has been abandoned and the stationary sprinkler heads were removed. The HCSWMD purchased and installed a mobile irrigation system consisting of two irrigation reels manufactured by ABI Irrigation, Model ABI 90 AT 1250. The mobile irrigation reels are stationed on the west side of Phase I and on the east side of Phase II as shown on Figure 3-1. Only treated effluent will be disposed through the spray irrigation system.

The reel irrigation system offers the following advantages:

- The irrigation spray rate can be adjusted at, above, or below 60,000 gallons per day.
- Maintenance of the irrigation reels is minimal (once per week).
- Life expectancy of each irrigation reel is 15 to 20 years (as per the manufacturer's representative).
- The irrigation reels can be easily relocated on the SCLF as needed to compensate for adjustments due to the filling sequence progression.
- The amount of irrigation in a given area can be easily adjusted utilizing reel speed to maximize the capacity of the system.

The operational sequence of the mobile reel irrigators is as follows:

- Before each irrigation event, the medium density polyethylene (PE) hose is stretched out with a vehicle (approximately 1200 linear feet). This activity should take approximately 30 minutes per day.
- Once both PE hoses have been stretched out across the top of the SCLF, personnel will then turn on the irrigation pump(s) timer; one pump if the reels are operated sequentially, two pumps if the reels are being operated concurrently. The reels will automatically reel back the PE hose at a preset rate (i.e., 300 feet per hour).
- At the end of the irrigation event, the timer will turn off the irrigation pump(s) and the irrigation reels will automatically return to their original position.

Per the existing operational restrictions from the Operation permit No. SO29-256427, Specific Conditions No. 40 and 41, spray irrigation may be applied under the following conditions:

- The permit conditions allow spray irrigation at a rate of .10 inch per application followed by two hours (waiting period) between each application for a maximum of .30 inch per day of treated effluent. Under no circumstances shall treated effluent be allowed to discharge as runoff to adjacent stormwater systems or conveyance ditches. Treated effluent shall not be sprayed during weather conditions or in quantities that may cause runoff, surface seeps, wind-blown spray, or exceedance of limits of leachate head over the liner as described in Section 6.0 of the LMP. Ponding is prohibited.

Spraying shall take place only when rainfall runoff into the onsite retention areas downgradient from the spray areas has terminated for 2 hours based on daily inspections of the influent point to each related retention area, or as follows, whichever is more restrictive:

SECTION 4

SYSTEM COMPONENTS PROJECTED PERFORMANCE

A leachate management system schematic of the permanent configuration is shown on Figure 4-1. The LCRS removal rates, pump rates, and pump control settings will be as follows:

4.1 PERMANENT PUMP STATION "A" (PPS-A), CAPACITY 150 GPM

PPS-A consists of an 8-foot inside diameter below-grade concrete sump with a single submersible pump. From PPS-A, leachate will be conveyed to the Main Leachate Pump Station via force main. The pump operation will be set with the "on" float at 42 inches from the sump bottom and the "off" float at 18 inches the sump bottom. In case of unforeseen failure of permanent pump station B, PPS-A may be used to remove leachate from the SCLF while PPS-B is under repairs. This can be accomplished by opening LCRS valve No. 5 (normally closed) which would allow gravity flow of leachate into PPS-A from the SCLF perimeter. LCRS valve No. 5 is on a non-perforated 8-inch diameter header that connects to the LCRS of Phase V.

4.2 PERMANENT PUMP STATION "B" (PPS-B), CAPACITY 150 GPM

PPS-B will become the primary leachate collection point in the SCLF when Phase VI is activated. Since the leachate collection system in Phases V and VI is not tied to any active landfilling Phase, initially the HCSWMD will use PPS-B to discharge stormwater via force main into the existing northern stormwater perimeter ditch. Upon consolidation of the phosphatic clay liner, the low point for the final collection and removal of leachate within the SCLF is projected to be at the PPS-B location. The leachate collection and removal system for the SCLF was designed to drain to PPS-B; therefore, PPS-B was designed to manage the leachate from the entire LCRS of the SCLF.

PPS-B consists of an 8-foot inside square below-grade concrete vault with a single submersible riser pump. The vault has two HDPE 18-inch diameter horizontal access pipes, the main access pipe leading to the existing PPS-A and an alternate access pipe leading towards the western perimeter of the SCLF. PPS-B will convey leachate to PPS-A. The "on" sensor will be set 24 inches of depth from the sump bottom and the "off" sensor will be set at 15 inches from the bottom. The settings described above provide for free flow of leachate into the vault from the LCRS thereby maximizing the LCRS performance.

Two EPG Companies Type WSD27-1 submersible pumps (one active and one stored as backup), comprised of stainless steel components will be used to remove the leachate from PPS-B. In the event of pump failure, the HCSWMD can replace the submersible pump with the backup pump within 8 hours. PPS-B will be equipped with a level indicator to be located at the control panel near PPS-A. The HCSWMD will monitor the level on a daily

basis to ensure that the levels mentioned above are maintained. Maintaining the operation of the PPS-B as proposed will provide reasonable assurance that the SCLF will maintain a leachate head over the liner of 12 inches or less during routine landfill operation.

4.3 TEMPORARY PUMP STATION NO. 3 (TPS-3), CAPACITY 150 GPM

TPS-3 currently is the initial collection point from the SCLF. TPS-3 consists of an 8-foot inside diameter below-grade concrete sump with a single submersible pump. TPS-3 conveys leachate to the Main Leachate Pump Station. The "on" float in the existing TPS-3 is set at 12 inches of depth from the sump bottom and the "off" float is being maintained at 6 inches from the bottom. This results in storage in the sump of 188 gallons of leachate. The settings described above provide for the maximum leachate withdrawal rate possible based on the existing configuration of the TPS-3. TPS-3 will be removed when PPS-B is activated at the beginning of waste filling in Phase VI Lift 7B.

The leachate from the temporary wellpoint dewatering system in Phase IV currently empties into the TPS-3 sump. TPS-3 pumps the leachate to the main leachate pump station. The LCRS header that connects to TPS-3 was closed off with a hydraulic plug, because after the installation of TPS-5 in November 1995, the gravity leachate flow from the SCLF into TPS-3 was reduced. In addition, the hydraulic plug prevents the leachate pumped by the dewatering system into TPS-3 from returning to the landfill.

4.4 TEMPORARY PUMP STATION NO. 4 (TPS-4), CAPACITY 125 GPM

Since the LCRS in Phases V and VI is not tied to any active landfilling Phase, the HCSWMD is using TPS-4 to discharge stormwater via force main into the existing Phase VI 16-inch HDPE drainage inlet No. 2. TPS-4 was designed to manage the leachate from Phase V during the initial stage when the Phases V and VI LCRS are separate (i.e., Phase V leachate and Phase VI stormwater). TPS-4 consists of an 8-foot inside diameter below-grade concrete sump with a single submersible pump. TPS-4 conveys leachate to the Main Leachate Pump Station. The "on" float in the existing TPS-4 is set at 18 inches of depth from the sump bottom and the "off" float is being maintained at 6 inches from the bottom. TPS-4 will be removed when PPS-B is activated at the beginning of waste filling in Phase VI Lift 7B.

4.5 TEMPORARY PUMP STATION NO. 5 (TPS-5), CAPACITY 150 GPM

TPS-5 currently is the secondary collection point from the SCLF. TPS-5 consists of a vacuum assisted centrifugal pump with a 4-inch diameter HDPE suction line. The suction line is between 100 to 130 feet inside of the existing 8-inch diameter PVC LCRS header that passes through the existing temporary low point in Phase IV. TPS-5 conveys leachate to the Main Leachate Pump Station. TPS-5 will be removed when PPS-B is activated at the beginning of waste filling in Phase VI Lift 7B.

SECTION 5

PERFORMANCE EVALUATION

The governing criteria of the LCRS is that it must maintain leachate levels at or below the levels required by Section 62-701.400(3), FAC, the operation permit, and as required by this Leachate Management Plan. Leachate levels in a landfill are a function of the impingement rate (e), the leachate travel distance (L), slope of the liner ($\tan\beta$), and the hydraulic conductivity of the drainage layer (k) (Giroud, 1992). The equation to estimate the leachate head over the liner, in the absence of pore pressure, is as follows:

$$T_{\max} = \frac{CL [(4e/k + (\tan\beta)^2)]^{1/2} - \tan\beta}{2\cos\beta}$$

Where:

T_{\max}	=	Maximum head over liner (inches)
L	=	Length of horizontal projection of the leachate collection layer from top to collector (meters)
e	=	Impingement rate (meter/sec)
k	=	Saturated hydraulic conductivity of the drainage layer (m/sec)
$\tan\beta$	=	Slope to collection pipe (dimensionless)
C	=	Constant (39.37 inch/meter)

The LCRS at the SCLF has been installed; therefore, modification of these variables was not considered. The only two ways to further minimize head over the liner at this point is to reduce the leachate drainage length (L) and the impingement rate (e). The HCSWMD has completed the addition of tire chip trenches at 200 feet of center to the LCRS in Phases V and VI. This improvement reduces the drainage length of the existing conditions from 400 feet on center to 200 feet on center. Additionally, to reduce the impingement rate during the initial filling sequence, the HCSWMD will incorporate the use rain tarps over Lifts 7A and 7B.

The Hydraulic Evaluation of Landfill Performance (HELP) model and the Giroud equation were used to evaluate the proposed improvements. The head over liner was calculated for areas within Phases V and VI that exhibited the longest distance for the leachate to travel to reach a collection point. For the evaluation, the varying slope of the phosphatic clay was calculated at approximately 0.5 percent. The estimated performance of the configurations evaluated are summarized in Table 5-1. Table 5-1 accounts for head over the liner including the clays upward pore pressure as measured by Ardaman and associates, Inc. in March 1994 (Figures 5-1 and 5-2). The configurations applicable to existing conditions at the SCLF are Scenarios No. 5, 6, and 7. As previously stated, results indicate that the SCLF will maintain a leachate head over the liner of 12 inches or less during routine landfill operation.

SECTION 6

MONITORING

Leachate depth and phosphatic clay settlement records continue to be maintained on site and are reported on a monthly basis to FDEP and the EPC. Copies of the updated forms used are included in Attachment B. Leachate monitoring will continue as outlined in the LMP. The piezometer will continue to be used to monitor the leachate depth over the liner in Phase IV. When Phase VI is activated the HCSWMD will use the level indicator of PPS-B to monitor the leachate depth in the SCLF. The HCSWMD will monitor both locations until it can be demonstrated that the LMP goals, as outlined in Sections 6.1 and 6.2, can be achieved by maintaining the proposed levels at PPS-B. At that time, the Phase IV piezometer will be removed and PPS-B will become the compliance monitoring point for the SCLF.

To facilitate monitoring operations and gather accurate data, the HCSWMD installed four flow meters to quantify leachate removal volumes. The meters were installed at the Temporary Pump Station No. 3 (measures leachate removal quantity from TPS-3 and TPS-5), the truck bypass at the Leachate Treatment and Reclamation Facility (LTRF), the truck bypass and the treated effluent pond, and the dewatering system in Phase IV.

A significant reduction in leachate depth over the liner has been realized since the HCSWMD initiated the continuous leachate removal from TPS-5 and the temporary dewatering system. The reduction trends in the data collected from January 1995 through November 1998 are shown in Table 6-1.

TABLE 6-1 LEACHATE DEPTHS AND QUANTITY REMOVED

Monitoring Locations	1995	1996	1997	1998
Phase IV Piezometer (Average inches)	58.6	35.9	23.4	21.7
Total Leachate Removed (million gallons)	29.3	28.1	26.3	29.3

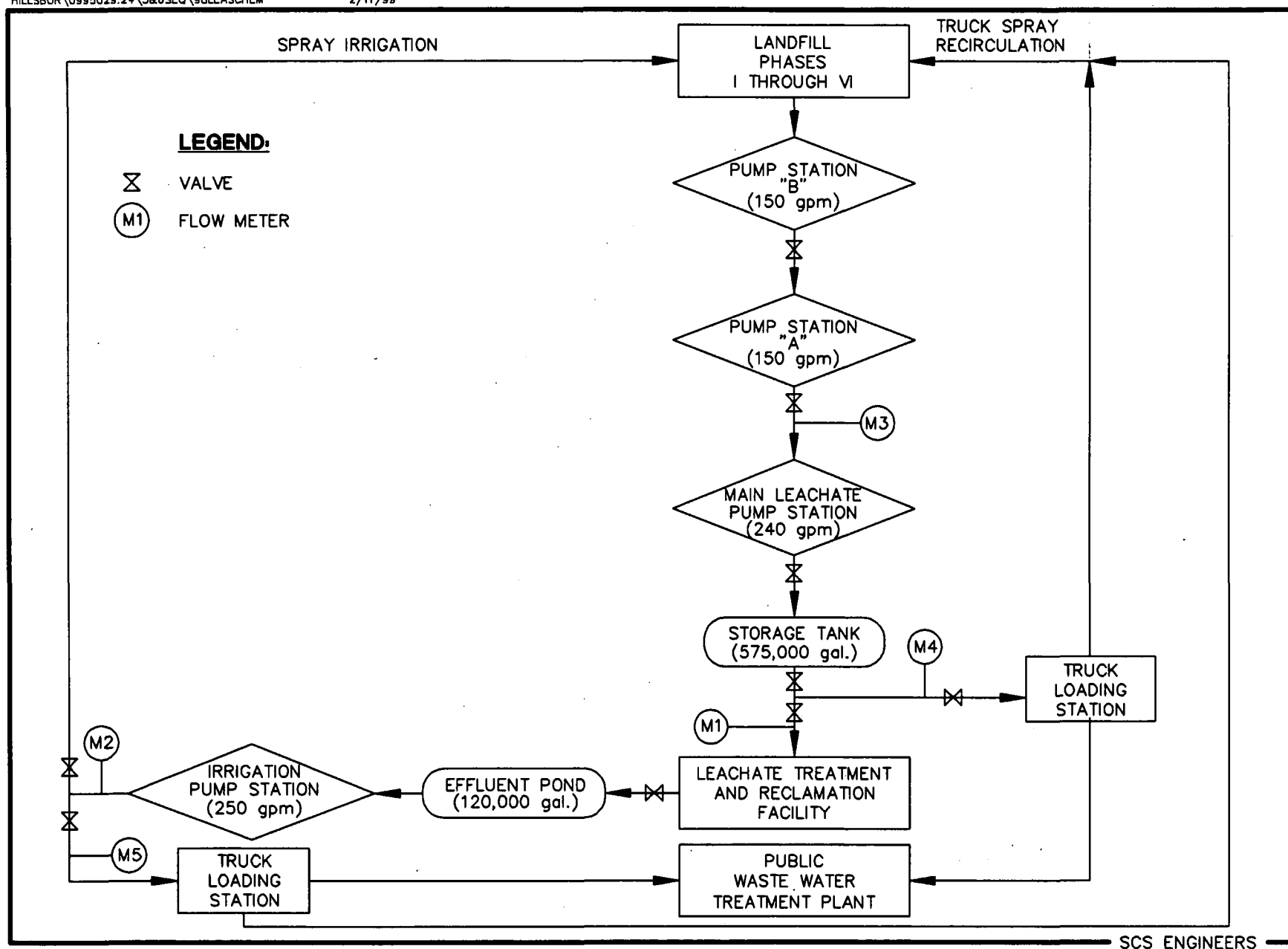
6.1 PHASE IV MONITORING

The piezometer in Phase IV will be used to monitor the leachate depth over the liner in Phase IV until it can be demonstrated that the LMP goals can be maintained by maintaining the proposed levels at PPS-B. After the demonstration is completed, the HCSWMD may elect to remove the piezometer in Phase IV. The performance of the LCRS will be evaluated on a daily basis, Attachment C presents the daily evaluation report form that will be used. The evaluation and record keeping forms will be revised as operating conditions

**TABLE 4. APPROXIMATE TOP OF CLAY ELEVATIONS
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL**

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Notes: 1. Values in italic represent adjusted elevations per field exploration on 5/18/98.
2. Vertical Datum based on feet NGVD 1929.



SCS ENGINEERS

Figure 4-1. Leachate Management System Schematic.

APPENDIX B
LMP DRAWING NO. 7 OF 9

APPENDIX C
FILTER FABRIC DATA



QC Data Report

27-Jan-99

Style	Std Work	Lot #	Date	Loom No	EPI	PPI	Weight	Actual Length	Purchase Length	GrabsTens AO	GrabElon BD	GrabsTens CO	GrabElon CO	Mullen Burst	ACS	TrapTens BD	TrapTens CO	AirFlow	Thickness	Shade	Water Flow	Force Index	Percent Sew	Open Area
61709	1440	12107	06/22/98	88	45.8	30.0	5.7	144.00	123	443	37.3	285	24.4	537	40	120	99		25		285			8.4
61709	1440	12672	08/28/98	88	43.2	30.0	5.7	145.00	152	441	34.6	277	23.1	488	40	147	72				285			25.4
61709	1440	13459	09/30/98	88	42.6	29.0	5.7	148.00	117	433	41.1	254	17.8	449	40	106	72		25		285			27.0
61709	1440	12978	09/30/98	88	43.4	30.2	5.9	148.00	117	442	42.1	310	21.2	540	40	102	62		28		285			
61709	1440	12577	09/30/98	88	43.2	30.4	6.0	145.00	154	413	41.8	337	26.8	538	40	124	191							
61709	1440	12186	10/07/98	88	44.0	29.4	5.6	143.00	130	452	38.2	222	20.4	501	40	94	73		24		285			26.2
61709	1440	14089	10/22/98	88	41.4	29.8	5.6	145.00	119	438	43.2	250	18.9	444	40	111	88		28		285			
61709	1440	13457	10/22/98	88	42.4	29.4	6.6	180.00	113	381	44.4	262	19.2	456	40	102	95							
61709	1440	14095	11/09/98																					
61709	1440	14559	01/19/99	88	42.2	28.8	5.8	144.00	110	431	40.0	277	26.2	470	40	138	80		28		285			
Average					43.2	29.1	5.7	145.22	127	433	41.8	276	22.0	486		116	84		27		285			21.3



TC BAYCOR

QC Wide Width Report - ASTM D4595

Wednesday, January 27, 1999

Style	LOT #	Date	Tensile @2% MD lbs/in	Tensile @5% MD lbs/in	Tensile @10% MD lbs/in	Tensile U/L MD lbs/in	Ultimate Elong. MD %	Tensile @2% CD lbs/in	Tensile @5% CD lbs/in	Tensile @10% CD lbs/in	Tensile U/L CD lbs/in	Ultimate Elong. CD %
61789	12143	10/07/98	24	40	104	246	21.1	26	59	105	167	18.1
61789	14093	10/22/98	21	40	82	237	24.8	31	69	126	155	13.7
61789	14096	11/09/98	19	41	87	267	26.2	24	51	92	163	24.3
Average			21	43	91	246	24.0	27	59	108	168	18.7

APPENDIX D
CONCRETE TICKETS

01/28/99 THU 14:28 FAX 813 0052

Florida Rock Ind

0002

INDUSTRIES, INC.

GULF COAST DIVISION

BEST AVAILABLE COPY

1. Mix Concrete
2. Contains Portland Cement
3. Hard Contact with Steel or Reinforcing
4. Set with Saw
5. Rugged Bricks and Blocks
6. Case of Concrete with 50%
7. Thoroughly with Water
8. Medical Attention
9. No Children Allowed

DATE
08-25-98

DELIVERY TICKET NO.
636040

START POUR: 1231

FINISH POUR: 117

1130	1138	12:00	127	207
Truck No. 6211	Load Size 7.00	Mix CLASS IV 5500 PS	Slump 5.00	Use ALL
Customer No. 94383	Sold To ERC GENERAL CONTRACTING SVC, IN		Driver No. 603 HOLLINS, KI	Project No.
Delivery Address SOUTHEAST LANDFILL, OFF 672		P.O. No.	Order No. 86	Permit No.
Location S S TO BIG BEN RD, EAST TO 301S TO 672, EAST ON 672, ABOUT 8 M				Time Due 12:00

LOAD QUANTITY	CUMULATIVE QUANTITY	ORDERED QUANTITY	PRODUCT CODE	PRODUCT DESCRIPTION	UNIT OF MEASURE	UNIT PRICE	AMOUNT
7.00	7.00	14.00	00463	CLASS IV 5500 PS	YD		
7.00	7.00	1.00	EF	ENVIRONMENTAL FE	YDS		
TEST 4							
ALERT TODAY - ACTIVE TOMORROW							
ADDITIONAL INSTRUCTIONS OFFILL ON LEFT							
THIS TICKET IS A RELEASE TO HOLD FLORIDA ROCK INDUSTRIES, INC. ITS DRIVER ON TRUCK HARMLESS FOR ANY AND DAMAGE THAT MAY OCCUR AS A RESULT OF THIS DELIVERY ON THIS PROPERTY.							

G OF CONCRETE

WEAKLY RESPONSIBLE FOR CONCRETE STRENGTH ONLY IF TESTING IS BY QUALIFIED PERSONNEL
IF FORMS WITH A.S.T.M. STANDARDS. A SLUMP TEST IS REQUIRED WHENEVER STRENGTH TEST
IS MADE.
NOT ASSUME RESPONSIBILITY FOR STRENGTH TEST WHEN WATER OR OTHER INGREDIENTS ARE
CUSTOMER'S REQUEST.

WE AUTHORIZED THE DRIVER OF THIS TRUCK
TO ADD 0 GALLONS OF WATER CALLBACK:

TIME:

WE CREDIT TERMS OF SALE ON REVERSE SIDE

BY

SUB TOTAL	
SERVICE CHARGE	
WAIT CHARGE	
TAX	
CASH TOTAL	

634663

634668

APPENDIX E
GRADATION TESTS

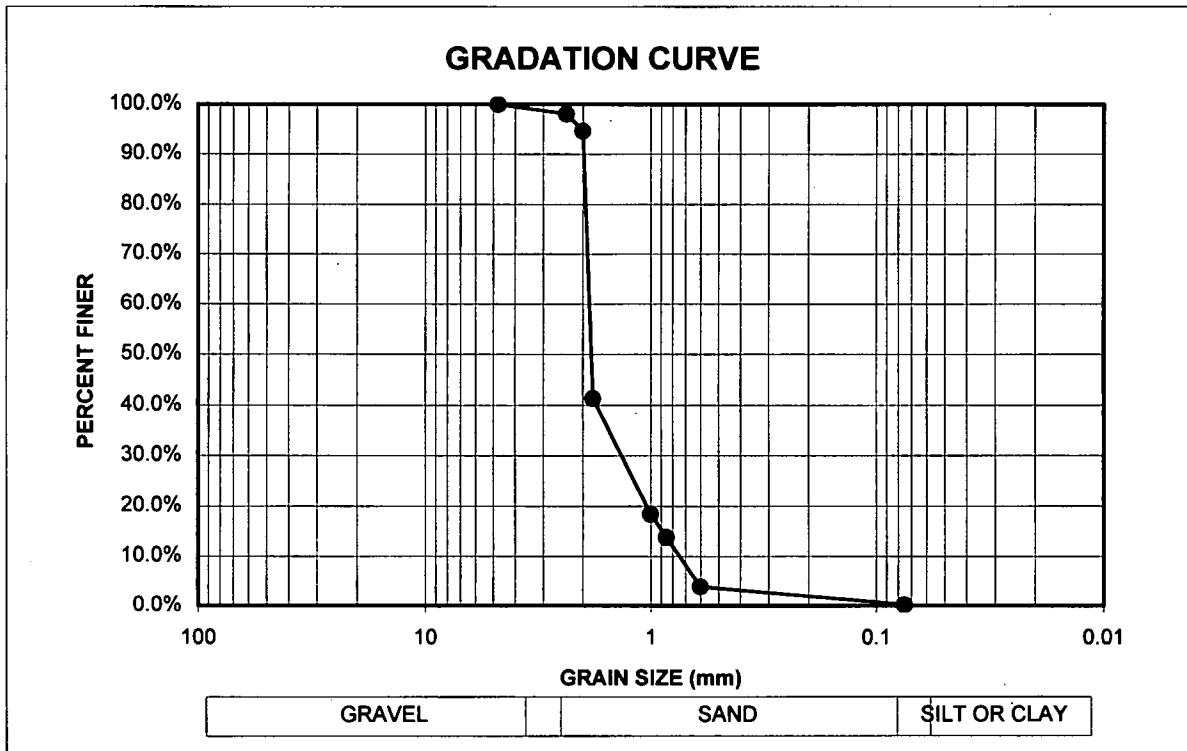
MADRID ENGINEERING GROUP, INC.

P. O. BOX 2506
BARTOW, FL 33831
941/533-9007 FAX 533-8997

GRADATION ANALYSIS

CLIENT: SCS Engineers SAMPLE NO.: 1
PROJECT NO.: 2730 DATE PERFORMED: 02/01/99 BY: mww
SOIL DESCRIPTION: Coarse Sand

SIEVE NUMBER	OPENING (mm)	PERCENT FINER
4	4.75	100.0%
8	2.36	98.1%
10	2.000	94.6%
16	1.800	41.3%
18	1.000	18.4%
20	0.850	13.8%
30	0.600	3.9%
200	0.075	0.2%
	-	-



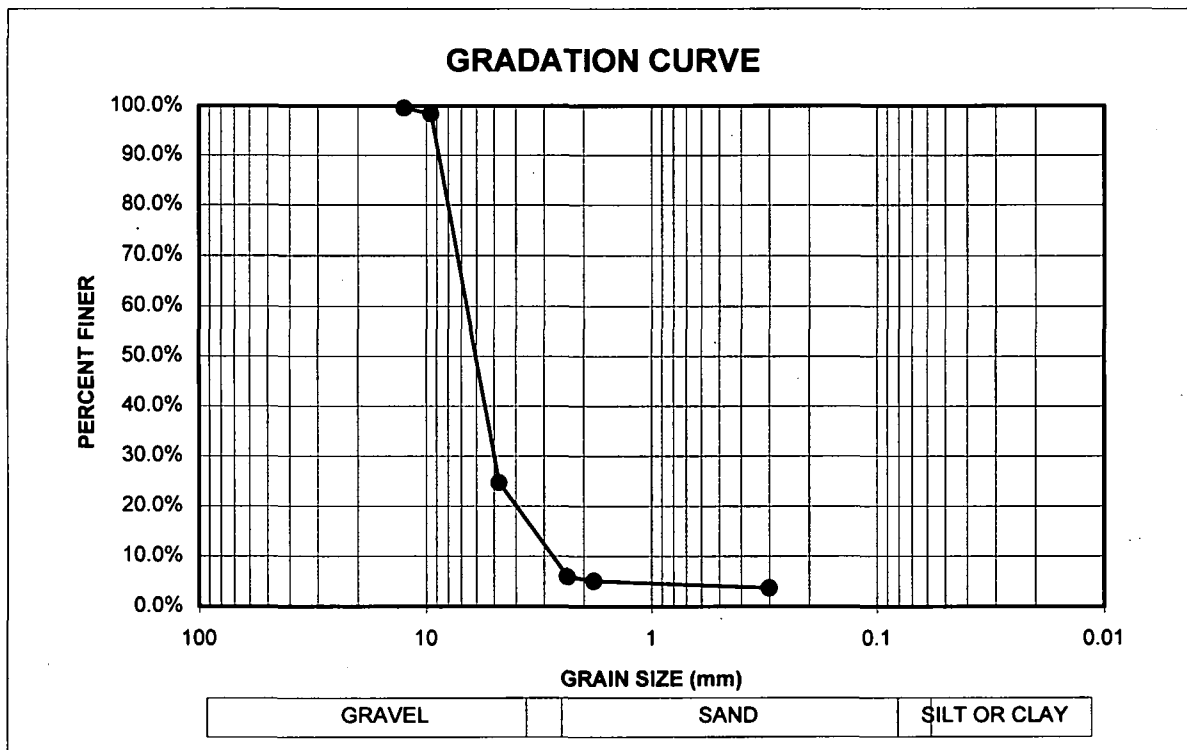
MADRID ENGINEERING GROUP, INC.

P. O. BOX 2506
BARTOW, FL 33831
941/533-9007 FAX 533-8997

GRADATION ANALYSIS

CLIENT: SCS Engineers SAMPLE NO.: 2
PROJECT NO.: 2730 DATE PERFORMED: 02/01/99 BY: mww
SOIL DESCRIPTION: #89 Gravel

SIEVE NUMBER	OPENING (mm)	PERCENT FINER
1/2"	12.5	99.6%
3/8"	9.5	98.4%
4	4.750	24.7%
8	2.360	6.0%
16	1.800	5.1%
50	0.300	3.7%
	-	-



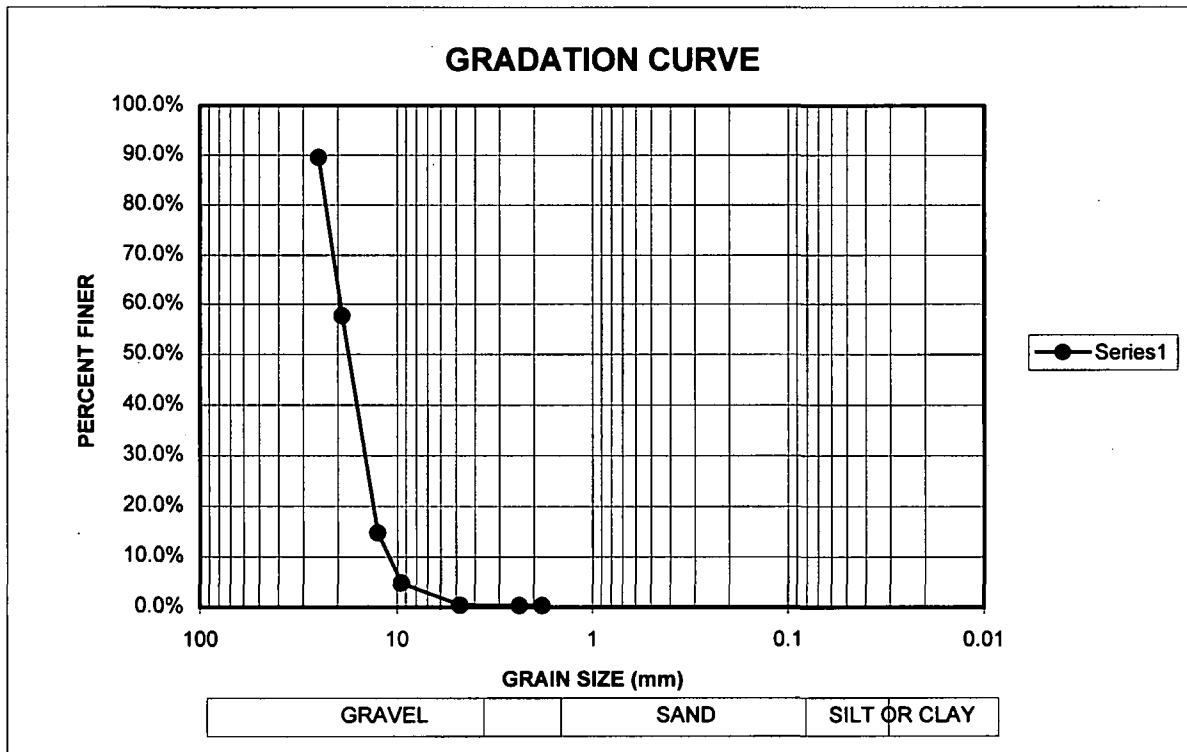
MADRID ENGINEERING GROUP, INC.

P. O. BOX 2506
BARTOW, FL 33831
941/533-9007 FAX 533-8997

GRADATION ANALYSIS

CLIENT: SCS Engineers SAMPLE NO.: 3
PROJECT NO.: 2730 DATE PERFORMED: 02/01/99 BY: mww
SOIL DESCRIPTION: #57 Stone

SIEVE NUMBER	OPENING (mm)	PERCENT FINER
1"	25	89.5%
3/4"	19	57.7%
1/2"	12.5	14.7%
3/8"	9.5	4.8%
4	4.750	0.4%
8	2.360	0.3%
16	1.800	0.3%
	-	-



APPENDIX F
WMI LETTER FOR PIPE REPAIR



Waste ManagementSM

Southeast Recycling and Disposal Facility
P.O. Box 627 Balm, FL 33503
15960 C.R. 672 E. Lithia, FL 33547

Phone 813.634.9203

January 29, 1999

Mr. Matt Matthews
Hillsborough County Department of Solid Waste
P.O. Box 1110
Tampa, FL 33601

RE: LEACHATE PIPE REPAIR - SOUTHEAST COUNTY LANDFILL

Dear Mr. Matthews:

On January 27, 1999, the six inch HDPE leachate pipe in Phase VI was repaired. The damaged section of pipe was cut and replaced with flanged ends for connection to the existing pipe.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'John W. Wong', written over the typed name and title.

John W. Wong
District Manager

APPENDIX G
LEACHATE STORAGE TANK INSPECTION

**Hillsborough County Southeast County Landfill Leachate
Treatment Facility**

**LEACHATE STORAGE TANK
WEEKLY INSPECTION**

Tank Exterior Condition	Good	Leak	Corrosion
	✓		
Level Control Floats	Working		
	Yes	✓	No
Cathodic Protection System	Working		
	Yes	✓	No

Comments: _____

Prepared by:

Samuel DeBacco Date: *Jun 22, 1999*

APPENDIX H
EPOXY DATA

CONSPEC MATERIALS OF ORLANDO, INC.

2456 N. Forsyth Rd • Orlando, Florida 32807

Phone (407) 678-9490

FAX (407) 677-0495

THIS NUMBER MUST APPEAR
ON ALL CORRESPONDENCE,
SHIPPING PAPERS, INVOICES
AND PACKAGES, ETC.

SALES SLIP NO.

W 020773

CONFIRMING TO (BUYER) JERRY RINDER		AREA CODE 1		TELEPHONE 6561391010	
BILLING INFORMATION					
DATE ORDERED (MO./DAY/YR) 06/29/98		TAKEN BY SW		BILL TO CUSTOMER ACCOUNT NO.	
COMPANY NAME ERC GENERAL CONTRACTORS		MFG SHIP <input type="checkbox"/> CONSPEC SHIP <input type="checkbox"/>			
MAILING ADDRESS		STREET ADDRESS 13330 W. COLONIAL DR			
CITY		CITY WINTER GARDEN			
STATE		STATE FL			
BILLING TERMS <input checked="" type="checkbox"/> NET 30		<input checked="" type="checkbox"/> CASH C.O.D.		ZIP CODE 34787	
<input checked="" type="checkbox"/> CHECK # 721		REC'D \$		FLORIDA STATE SALES TAX <input checked="" type="checkbox"/> TAX <input type="checkbox"/> EXEMPT	
PROJECT JOB NAME		PROJECT JOB #			
ITEM NUMBER	QUANTITY ORDERED	UNIT	QUANTITY SHIPPED	UNIT	CONTAINER SIZE
	2	UT	2	UT	3.96L. M/B ENACO P-24
	1	UT	1	UT	106L. M/B MASTERSPEC GP (1x106L. UT.)
APPROX. WEIGHT 1167.38 334.76					
APPROX. VOLUME 235.55 235.55					
CK # 121					
SHIPPING POINT ORLANDO		<input type="checkbox"/> PPD. & ADD		<input type="checkbox"/> F.O.B. (DESTINATION)	
SHIP VIA CARRIER NAME GOX		<input type="checkbox"/> COLL.		<input checked="" type="checkbox"/> C.O.D. AMOUNT \$ 604.53	
BILL OF LADING #		PICKED BY SW		SALES REP. BD	
DATE SHIPPED 7-10-98					
TERMS AND CONDITIONS:					
The undersigned hereby warrants that he has the full right & authority to enter into this agreement and accepts responsibility for any charges incurred.					
SUB-TOTAL		570.31			
TAX		34.22			
FREIGHT					
TOTAL		604.53			
NOTE: THIS IS A DELIVERY TICKET ONLY—INVOICE TO FOLLOW. NO RETURNS ALLOWED UNLESS AUTHORIZED IN WRITING BY CONSPEC MATERIALS, INC.—SUBJECT TO A HANDLING CHARGE OF NOT LESS THAN 15% OF THE ORDER RETURNED.					
CUSTOMER SIGNATURE (ORDER CANNOT BE PROCESSED WITHOUT SIGNATURE)					DATE 7/10/98

* SUBJECT TO THE TERMS AND CONDITIONS SHOWN ON THE REVERSE SIDE.

FORM (SA-256) REV. 5-94 54

CUSTOMER COPY

MASTERSEAL® GP**Epoxy sealer**

NOT

COATING

OK (2) COATS

used for concrete


 The MasterSeal
 Division of
DESCRIPTION:

MASTERSEAL GP is a long established, high quality epoxy formulation for sealing concrete surfaces to prevent deterioration such as spalling, scaling, cracking and leaching. It effectively keeps out moisture carrying deicing or sea coast chlorides that cause spall-generating rebar corrosion; rain-borne acids which attack cement; and moisture which causes cracking, leaching, and freeze/thaw-caused scaling. Extensive independent tests show that MASTERSEAL GP prevents over 94% of the chlorides in salt-laden water from entering concrete. These results are equivalent to or in excess of much more expensive treatments such as polymer concrete or dense, low-slump concrete. The same sealing ability which so markedly reduces chloride infiltration will substantially protect concrete against all other water-borne damaging elements.

RECOMMENDED FOR:

- Bridge decks, highways and median barriers
- Parking garages
- Piers, beams and wing walls

FEATURES/BENEFITS:

- Low viscosity for high penetration
- Excellent sealing ability
- Cures on clean, dry surfaces in temperatures as low as 40°F (4°C)
- Authorized by USDA for use in federally inspected meat and poultry plants*

* Authorized by USDA as a coating for application to structural surfaces or surfaces where there is a possibility of incidental food contact in federally inspected meat and poultry plants.

PACKAGING/ESTIMATING:

MASTERSEAL GP is packed in 10 and 100 U.S. gallon units (37.9 and 379 litre).

Coverage rates are 100 to 150 ft²/gallon (2.5 to 3.7 m²/litre), depending on conditions. Two coats are recommended in special applications only.

PERFORMANCE DATA:

Reduction of Water Absorption into Concrete (Test Procedure, NCHRP study, 12-19A)	91% minimum
Reduction of Chloride Content in Concrete Exposure Test (Test Procedure, NCHRP study, 12-19A)	94% minimum
Color (mixed)	Clear Amber
Ratio (by volume)	1:1 (Resin & Hardener)
Solids (by volume)	50% minimum
(by weight)	58% minimum

Viscosity (mixed)

15 to 40 cps

Pot Life

Approximately 2 hours

One U.S. gal @ 75°F (3.8 litres @ 24°C)

Initial Cure Time

3 to 4 hours @ 75°F (24°C)

Shelf Life

18 months (minimum) if kept at normal room temperatures

* Properties listed in this bulletin are typical and descriptive of the product and may be used as a guide for determining suitability for particular applications.

APPLICATIONS:**Concrete Surfaces**

New Concrete must be fully cured (28-day minimum). Remove grease, wax, oil contaminants and curing compounds by scrubbing with an industrial grade detergent or a degreasing compound, then follow with a mechanical cleaning. Remove weak, contaminated or deteriorated concrete by shot-blasting, bushhammering, grit blasting, scarifying or other suitable mechanical means. Follow mechanical cleaning with vacuum cleaning. Acid-etching with 15% hydrochloric acid should only be used if there is no practical alternative. It must be followed by pressure washing, scrubbing and flushing with copious amounts of clean water. Check for removal of acid with moist pH paper. Reading should be greater than 10.

Steel Surfaces

Remove dirt, grease and oil with a suitable, industrial grade, cleaning and degreasing compound. Remove rust and mill scale by gritblasting. Blast steel to white metal. Follow gritblasting with vacuuming or oil-free, dry-air blast.

Thorough and complete mixing is vital for uniform and ultimate properties after cure. The temperature of MASTERSEAL GP must be above 50°F (10°C) for mixing. Stir Resin and Hardener separately before mixing them together. Mix Resin and Hardener 1:1 by volume for 3 minutes using a Jiffy® mixer (Jiffy Mixer Co., Irvine, CA), or equal, powered by a low speed (400 to 650 rpm) electric drill. If a Jiffy or Jiffy type mixer is not available, mix vigorously and thoroughly with paint stirrer or other means.

Apply MASTERSEAL GP at a surface temperature of 40°F (4°C) or above with squeegee roller or spray equipment to the clean, dry surface. Applications requiring a second coat can be made as soon as first coat becomes tack free (3 to 4 hours). To provide skid and wear resistance, broadcast silica sand over the final coat at 1 to 1-1/2 lbs/yd² (0.45 to 0.81 kg/m²).

Mixed epoxy is much easier to clean up before it hardens. Commercial epoxy/paint stripper solvents are recommended for hardened epoxy. Consult solvent manufacturer's usage recommendations.



LIMITATIONS:

- MASTERSEAL GP should be stored in tightly sealed containers in a dry location at normal room temperatures (65°F to 85°F (18°C to 29°C)).
- Some epoxy materials can crystallize during storage. The tendency to do so is affected by conditions of storage, composition and other factors.
- As with all epoxy sealers, MASTERSEAL GP may tend to become yellow or "chalk" in both interior and exterior environments. It may also turn "milky" if placed on damp concrete or if exposed to high moisture prior to full cure.
- Epoxy sealers, including MASTERSEAL GP, should not be substituted in industrial environments where an epoxy "coating" or where a fluosilicate type of liquid floor hardener is required or specified. Epoxy sealers remain, for the most part, on the floor surface rather than fully penetrating as is the case with fluosilicate hardeners. Further, they do not have the superior wear and scratch resistance of epoxy coatings. WHEN AN EPOXY COATING IS NEEDED, it is suggested that the MASTERTOP® product line be considered.

- This product should be used by qualified personnel for recommended applications in accordance with the previously described procedures.
- Components may be flammable or combustible, therefore extinguish open flames in the area prior to use. Ensure adequate ventilation to keep vapors below threshold limits. For details regarding personnel protective equipment and first aid, refer to the product Material Safety Data Sheet (MSDS).

RELATED BULLETINS:

Material Safety Data Sheet - MASTERSEAL GP

Master Builders, Inc.
United States
23700 Chagrin Boulevard
Cleveland, Ohio 44122-5554
(800) MBT-9990
Fax (216) 831-6910

Canada
3637 Weston Road
Toronto, Ontario M9L 1W1
(800) 387-5862
Fax (416) 741-7925

Mexico
Blvd. M. Avila Camacho 80, 3er Piso
53390 Naucalpan, México
011-525-557-5544
Fax 011-525-395-7903

APPENDIX I
GLOBEX REPORT REVISED PAGE NO. 8



The overlaps are pulled together to close the exposed surface of tire chips and to meet the minimum 24 in. overlap requirement.

APPENDIX J
PPS-B CLEANUP LETTER



Waste ManagementSM

Southeast Recycling and Disposal Facility
P.O. Box 627 Balm, FL 33503
15960 C.R. 672 E. Lithia, FL 33547

Phone 813.634.9203

January 29, 1999

Mr. Matt Matthews
Hillsborough County Department of Solid Waste
P.O. Box 1110
Tampa, FL 33601

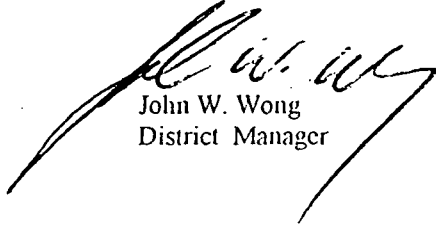
RE: SUMP B CLEANOUT - SOUTHEAST COUNTY LANDFILL

Dear Mr. Matthews:

I am submitting an invoice for the work performed to pressure clean the vault on January 29, 1999. The invoice amount is \$305.50 as itemized my January 26, 1999 memorandum. Thank you for allowing us to serve your needs.

If you have any questions, please contact me.

Sincerely,



John W. Wong
District Manager

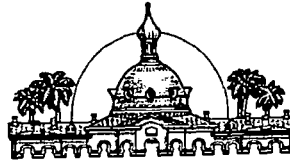
HILLSBOROUGH COUNTY

FLORIDA

Office of the County Administrator
Daniel A. Kleman

BOARD OF COUNTY COMMISSIONERS

Dottie Berger
Joe Chillura
Chris Hart
Jim Norman
Jan Platt
Thomas Scott
Ed Turanchik



Deputy County Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunzeker
Jimmie Keel

February 8, 1999

Ms. Patricia V. Berry
Executive Manager
Hillsborough County Solid
Waste Management Department
P.O. Box 1110
Tampa, Florida 33601

Re: FDEP Inspection

Dear Ms. Berry:

Florida Department of Environmental Protection (FDEP) requested Pump Station B vault to be cleaned due to algae growth on the HDPE enclosed piping. Hillsborough County Solid Waste Management Department (HCSWMD) contracted with Waste Management Inc. of Florida (WMI) to perform this work. On January 29, 1999 WMI Site Supervisor, John Wong, submitted an invoice that the work had been performed. Mr. Wong photographed the vault piping and interior walls and these photographs are attached.

Please review and submit to SCS Engineers for submittal to FDEP.

Sincerely,


M. Matt Matthews
Sr. Engineering Tech

Attachment

xc: Larry Ruiz, SCS
John Wong, WMI

APPENDIX K
LINER PENETRATIONS

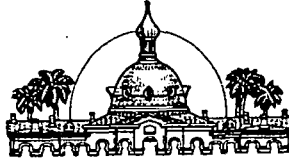
HILLSBOROUGH COUNTY

FLORIDA

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Ed Turanchik



Deputy County Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunzeker
Jimmie Keel

February 8, 1999

Ms. Patricia V. Berry
Executive Manager
Hillsborough County Solid
Waste Management Department
P.O. Box 1110
Tampa, Florida 33601

Re: Condition of Liner around 16 inch Stormwater Drain
Phases V and VI

Dear Ms. Berry:

Florida Department of Environmental Protection (FDEP) requested inspection of the condition of the liner material around the stormwater drain Phases V and VI. These inspections have been made and photographs are attached.

Please review and submit to SCS Engineers for submittal to FDEP.

Sincerely,

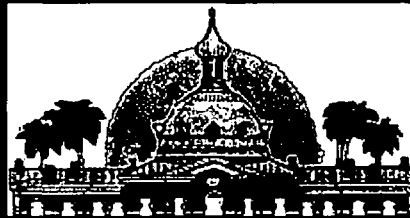

M. Matt Matthews
Sr. Engineering Tech

Attachment

xc: Larry Ruiz, SCS

Operation Permit Modification Southeast County Landfill Hillsborough County, Florida

Responses To The Florida Department of Environmental Protection



Prepared for:

Hillsborough County
Solid Waste Management Department
P.O. Box 1110
Tampa, Florida 33601
(813) 276-5680

D.E.R.

DEC 31 1998

Prepared by:

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

**SOUTHWEST DISTRICT
TAMPA**

File No. 0995029.14
December 31, 1998

RECEIVED
DEC 31 1998

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

**OPERATION PERMIT MODIFICATION
SOUTHEAST COUNTY LANDFILL
HILLSBOROUGH COUNTY, FLORIDA**

**RESPONSES TO THE
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

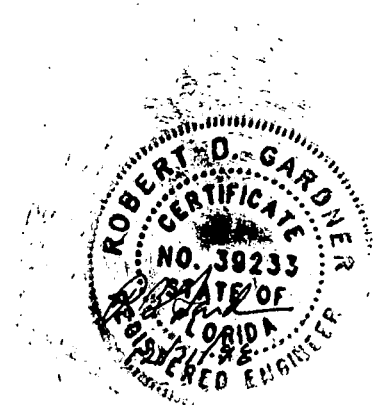
Prepared For:

Hillsborough County
Solid Waste Management Department
P.O. Box 1110
Tampa, Florida 33601

Prepared By:

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

December 31, 1998
File No. 0995029.14



SCS ENGINEERSDecember 31, 1997
File No. 0995029.14

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

Subject: Response to Florida Department of Environmental Protection's letter dated December 1, 1998, regarding the Southeast County Landfill (SCLF), Phases V and VI Operations Modification, Pending No. 35435-003, Hillsborough County, Florida

Dear Mr. Ford:

On behalf of the Hillsborough County Solid Waste Management Department (HCSWMD), SCS Engineers (SCS) has reviewed the referenced letter from the Florida Department of Environmental Protection (FDEP). The following response address the questions raised by the FDEP. Each of the FDEP's comments is restated in bold below, followed by our response. In addition, the attached Leachate Management Plan (LMP) was revised as discussed in our meeting on December 2, 1998.

✓ **FDEP Statement 1 - Proof of publication of notice of application pursuant to Rule 62-103.150, see attached notice.**

✓ **Response** – The proof of publication was submitted separately to the FDEP and the Hillsborough County Environmental Protection Commission (EPC) on December 9, 1998.

FDEP Statement 2 - Certification of Construction Completion and record drawings for all new components such as PPS-A, PPS-B and the chipped tire trenches.

Response – Permanent Pump Station A (PPS-A), is an existing pump station. PPS-A was built as part of Phases V and VI construction. The as-built report and certification for Phases V and VI were submitted to FDEP and EPC in March 1993. The as-built report and certification for Permanent Pump Station B (PPS-B) prepared by Geosyntec Consultants is presented in Appendix A. The as-built report and certification for the chipped tire trenches prepared by Globex Engineering and Development was submitted separately to the FDEP and EPC on December 17, 1998.

FDEP Statement 3 - Final report regarding the leachate storage tank inspection and treatment facility repairs.

Response – The leachate storage tank inspection report is presented in Appendix B and the treatment facility repairs report is presented in Appendix C.



FDEP Statement 4 - Explanation for use of PPS-A as a backup for PPS-B.

✓ **Response** – In case of an unforeseen failure of permanent pump station B, PPS-A may be used to remove leachate from the SCLF while PPS-B is under repairs. This can be accomplished by opening LCRS valve No. 5 (normally closed) which would allow gravity flow of leachate into PPS-A from the SCLF perimeter. LCRS valve No. 5 is on a non-perforated 8-inch diameter header that connects to the LCRS of Phase V. The LMP Section 4.1 was revised to reflect this condition.

✓ **FDEP Statement 5 - Description of rain tarp disposal or assurance that leaving it in place will not increase the potential for sideslope seepage.**

✓ **Response** – The rain tarp will be removed prior to placement of refuse in Lift 7C and 7D. The LMP Section 3.2.2(12-13) was revised to reflect this condition.

FDEP Statement 6 - Assurance that leachate will not mix with stormwater along the "lined berms" or at stormwater inlets.

Response – The stormwater from areas with tarp will be separated from active filling areas by a lined berm (see Section A, Drawing No. 9 of the LMP Attachment A). Stormwater runoff over the tarp will drain to the stormwater inlets (see Detail 1, Drawing No. 7 of the LMP Attachment A). When filling begins in Phases V and VI, any liquid below the tarp will be conveyed, via the leachate collection system, to the leachate pump stations (i.e. PPS-B and TPS-4). The LMP Sections 3.2.1(10) and 3.2.2(11) were revised to include a submittal to the FDEP and EPC of a letter certified by a professional engineer confirming the final capping of the stormwater inlets.

✓ **FDEP Statement 7 - The results/documentation of jet cleaning the Phases V and VI LCRS.**

✓ **Response** – The documentation with the results and remediation action taken are presented in Appendix D.

✓ **FDEP Statement 8 - Top of clay data. All relevant tables, figures and drawings should be included or replaced.**

✓ **Response** – The most recent top of clay contours are included in Figure 1-1 of the LMP. The relevant tables and figures as discussed in our meeting on December 2, 1998 were added to the attached LMP.

✓ **FDEP Statement 9 - Results of a demonstration to verify pump replacement in PPS-B in 4 hours.**

✓ **Response** – Based on field observations by HCSWMD personnel during the installation of the pump in PPS-B, the submersible pump should be able to be replaced with the backup pump within 8 hours. The LMP Section 4.2 was revised to reflect this condition.

Mr. Kim B. Ford
December 31, 1998
Page 3

FDEP Statement 10 - Results of pump performance tests for each new pump for PPS-B.

Response - The pump performance test and sensor calibration are presented in Appendix E.

FDEP Statement 11 - Regrading plans and elevations for rain tarps to promote drainage.

Response - As shown on Drawing No. 3 of the LMP Attachment A, Phases V and VI currently are graded to promote stormwater runoff towards stormwater inlets No. 1 and 2 respectively. Any isolated areas that may need additional regrading will be regraded by the HCSWMD during the installation of the tarp.

FDEP Statement 12 - Explanation for deviation from previous Lift 7E sequence of filling. Clarification is needed for the slope and maximum fill height for each layer of waster.

Response - No deviation has occurred. As stated in Section 3.2 of the LMP, Lift 7 was divided into intermediate lifts to clarify and facilitate the management of the different filling stages of Lift 7. The only difference is that the sequence in the 1994 Operation Permit Renewal Application was divided into Lifts 7A through 7E. However, the sequence in the LMP is more detailed and it was divided into Lifts 7A through 7F. Both scenarios represent the original Lift 7. After the completion of Lift 7, landfilling will continue as scheduled on Phase I Lift 8 as described in Section 5.3 and as shown on Drawing No. 8 of the 1994 Operation Permit Renewal Application. The slope and maximum fill height for each lift is shown on the revised Drawings of the LMP Attachment A.

Your prompt review of this application is requested. The HCSWMD is anticipating to begin landfilling in Phases V and VI early 1999. The HCSWMD and SCS are ready to meet with you to promptly resolve any questions or provide additional information.

Please do not hesitate to call if you have any questions.

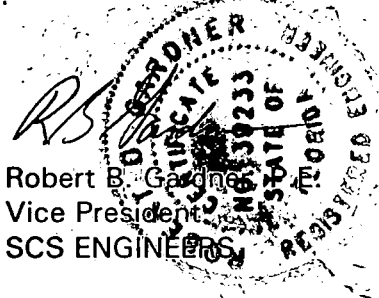
Very truly yours,

Larry E. Ruiz
Larry E. Ruiz
Project Manager
SCS ENGINEERS

LER/RBG:ler
Enclosure

cc: Patricia V. Berry, HCSWMD
Paul Schipfer, EPC

RS
Robert B. Gagne
Vice President
SCS ENGINEERS



CONTENTS

Appendices

- A Permanent Pump Station B
- B Leachate Storage Tank Inspection Report
- C Leachate Treatment and Reclamation Facility Treatment Tank Repairs Report
- D Jet Cleaning and Video Inspection Report
- E Pump and Level Sensor Tests

APPENDIX A

**PERMANENT PUMP STATION B
CONSTRUCTION QUALITY ASSURANCE REPORT**

**GEOSYNTEC CONSULTANTS
(DECEMBER 17, 1998)**

Prepared for

Waste Management, Inc.

Southeast Landfill

15960 County Road 672 East

Lithia, Florida 33547

FINAL REPORT FOR
CONSTRUCTION QUALITY ASSURANCE SERVICES
FOR THE SOUTHEAST COUNTY LANDFILL
PERMANENT PUMP STATION "B"
HILLSBOROUGH COUNTY, FLORIDA

Prepared by



GEOSYNTEC CONSULTANTS

621 N.W. 53rd Street, Suite 650

Boca Raton, Florida 33487

GeoSyntec Consultants Project Number FQ0152

December 1998

17 December 1998

Mr. John W. Wong
Waste Management, Inc. of Florida
Southeast Landfill
15960 County Road 672 East
Lithia, Florida 33547

Subject: FDEP Permit No. 35435-001-SC
Southeast County Landfill Pump Station "B" - Phase I & II
Hillsborough County, Florida

Dear Mr. Wong:

GeoSyntec Consultants (GeoSyntec) is pleased to provide Waste Management, Inc. of Florida with this Final Report of construction quality assurance (CQA) services provided during construction of Pump Station B at the Southeast County Landfill in Hillsborough County, Florida. This document was prepared by Mr. Daniel Schauer, P.G. and Mr. Harry M. Tomlinson, Jr., P.E., both of GeoSyntec. The Final Report includes a Certification of Construction Completion (presented in Appendix A) and is intended to comply with Specific Condition No. 7 of the above-referenced Florida Department of Environmental Protection (FDEP) Permit and the requirements of Rule 62-701.400 of the Florida Administrative Code (FAC).

The remainder of this Final Report presents: (i) the project description and responsibilities of the parties involved in the project; and (ii) a list of the key documents governing the construction; (iii) a summary of the CQA program; and (iv) closure.

PROJECT DESCRIPTION AND RESPONSIBILITIES

The Southeast County Landfill (Southeast Landfill) site is located 8.8 miles east of U.S. Highway 301 on County Road 672 southeast of Tampa in Hillsborough County, Florida. Pump Station B is a permanent pump station located near the center of the 162-acre Class I landfill footprint. The purpose of Pump Station B is to receive the gravity flow of leachate from the 162-acre leachate collection layer and pump it to the existing permanent Pump Station A.

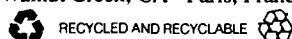
FQ0152-03/Q980455.DOC

Corporate Office:

621 N.W. 53rd Street • Suite 650
Boca Raton, Florida 33487 • USA
Tel. (561) 995-0900 • Fax (561) 995-0925

Regional Offices:

Atlanta, GA • Boca Raton, FL • Chicago, IL
Columbia, MD • Huntington Beach, CA • San Antonio, TX
Walnut Creek, CA • Paris, France

**Laboratories:**

Atlanta, GA
Boca Raton, FL
Huntington Beach, CA

Mr. John W. Wong
17 December 1998
Page 2

The major components of the Pump Station B construction project included: (i) a reinforced concrete vault to receive the flow from five leachate collection pipes and house the leachate pump; (ii) a system of geogrid reinforcement and bedding aggregate to support the weight of the vault; (iii) two 18 in. diameter HDPE access pipes (one main and one alternate) to allow insertion and removal of pumps; and (iv) leachate pump and 4 in. diameter HDPE force main.

The Southeast Landfill is owned by Hillsborough County (the County) and is operated by Waste Management, Inc. of Florida (WMIF). Pump Station B and the associated items listed above were designed by the County's Engineer, SCS Engineers (SCS) of Tampa, Florida. WMIF performed as the general contractor for the Pump Station B project and was responsible for the coordination of subcontractors and for overall construction of the project. WMIF subcontracted with ERC General Contracting Service, Inc. (ERC) of Winter Garden, Florida to perform the actual construction. WMIF procured the services of GeoSyntec to provide independent third party CQA during the construction.

PROJECT DOCUMENTS

The following key documents governed and defined the technical aspects of the construction:

- Florida Department of Environmental Protection (FDEP) Permit No. 35435-001-SC dated April 9, 1998;
- *"Technical Specifications, Pump Station B, Phase I Construction, Southeast County Landfill"*, prepared by SCS, dated February 27, 1998;
- *"Southeast County Landfill Permanent Pump Station B, Phase I Construction Drawings No. 1 through 7"*, prepared by SCS, dated February 13, 1998.
- *"Site Specific Construction Quality Assurance Plan for Pump Station B at the Southeast Landfill, Hillsborough County"*, Florida, prepared by GeoSyntec, dated 9 July 1998; and

FQ0152-03/Q980455.DOC



Mr. John W. Wong
17 December 1998
Page 3

- The Contractors' Submittals Nos. 1 through 22 and Requests for Information (RFIs) Nos. 1 through 13.

GeoSyntec conducted a CQA program designed to provide assurance that the construction met the requirements set forth in these documents, hereafter collectively referenced as the Project Plans and Specifications. Minor modifications to the originally permitted design were made during the course of the project in response to unforeseen conditions or in order to improve the constructability or performance of the system. Approval of modifications was the responsibility of SCS. Once approved, these modifications were communicated to GeoSyntec through the contractor's RFIs and submittals referenced above. A description of the modifications is noted on the as-built drawings presented in Appendix E.

CQA PROGRAM

GeoSyntec implemented a CQA program that consisted of: (i) review of Project Plans and Specifications, (ii) preparation of Site Specific Construction Quality Assurance Plan, (iii) monitoring and documenting construction activities; (iv) inspecting completed elements of construction to assure compliance with the Project Plans and Specifications; (v) sampling and testing concrete; and (vi) preparing this Final Report. The construction items GeoSyntec monitored and inspected included but were not limited to the following:

- application and touch-up of epoxy coating on steel reinforcing bars for concrete;
- installation of steel reinforcing bars for concrete;
- installation and patching of the HDPE geomembrane liner used to seal the bottom of the concrete vault;
- installation of concrete formwork with proper clearance from reinforcing bars;
- pouring and finishing of concrete;
- seal coating of concrete vault with approved epoxy sealant;
- grading of overburdened sand within the vault excavation;
- excavation of phosphatic clay to final grades in the vault excavation;

FQ0152-03/Q980455.DOC



Mr. John W. Wong
17 December 1998
Page 4

- installation of vault support elements including: geotextile separator, bedding aggregate (No. 57 or No. 4 granite), geogrid, and sand backfill to anchor geogrid;
- placement of vault base in excavation;
- installation of 18 in. diameter HDPE pump access pipes including geotextile separator and gravel bedding;
- connection of 8 in. diameter leachate collection pipes to vault;
- installation of coarse aggregate backfill (No. 57 or No. 4 granite) around vault;
- installation of 6-in. thick filter rock (3/8. in gradation) layer and 6-in. thick coarse sand (6/20 sand) layer above coarse aggregate backfill;
- installation of sand backfill to temporary grades that allow access to top of vault;
- installation of a boot on the CSPE geomembrane liner at the penetration of the 18" diameter main access pipe through the north perimeter berm; and
- repair or reconstruction of items damaged during construction or by heavy rain and flooding.

During the course of construction, GeoSyntec immediately notified ERC of any observed items not in compliance with the Project Plans and Specifications. In most cases, ERC immediately remedied the item of noncompliance. In all cases, the observed items of noncompliance were resolved to the satisfaction of the CQA Certifying Engineer either by a modification to the design approved by SCS or by reconstructing the item to comply with the Project Plans and Specifications.

The GeoSyntec CQA technicians documented the construction activities and results of their inspections using Daily Field Reports presented in Appendix B. GeoSyntec also prepared a photographic log of construction. Key photographs are presented in Appendix C. GeoSyntec reviewed quality control tests of materials supplied for construction performed by others and confirmed that the material properties complied with the Project Plans and Specifications. Results of quality control tests for concrete, geotextile, geogrid, and aggregate and soil materials are presented in Appendix D.

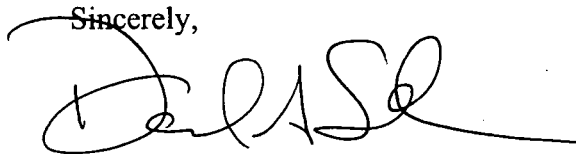


Mr. John W. Wong
17 December 1998
Page 5

CLOSURE

GeoSyntec performed the CQA Program during construction of the Pump Station B in substantial accordance with the Project Plans and Specifications. The field observations and review of quality control test results of the manufacturer's information indicate that the pipe, concrete, soils, geosynthetics, and other materials used in the construction of Pump Station B meet the material property requirements of the Project Plans and Specifications. The field observations of the CQA program indicate that the construction of Pump Station B was performed in substantial accordance with the Project Plans and Specifications.

Sincerely,

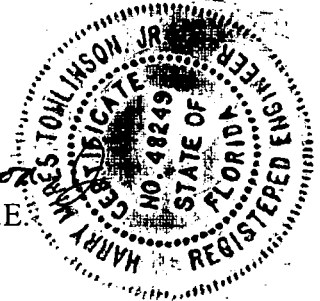


Daniel A. Schauer, P.G.
CQA Project Manager

18 DEC 1998



Harry M. Tomlinson, Jr., P.E.
CQA Certifying Engineer



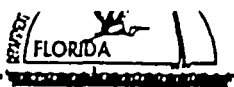
Attachments

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APPENDIX A

CERTIFICATE OF CONSTRUCTION COMPLETION



Certification of Construction Completion of a Solid Waste Management Facility

DEP Construction Permit No: 35435-001-SC County: Hillsborough

Name of Project: Southeast County Landfill Pump Station B

Name of Owner: Hillsborough County

Name of Engineer: SCS Engineers

Type of Project: Permanent MSW Landfill Leachate Collection
System Construction

Cost: Estimate \$ 185,000.00 Actual \$ 185,000.00

Site Design: Quantity: 1,200 ton/day Site Acreage: 162 Acres

Deviations from Plans and Application Approved by DEP: _____

No substantial deviations. Minor modifications are noted on as-built drawings.

Address and Telephone No. of Site: 15960 County Road 672 East, Lithia,
Florida 33547 (813) 634-9203

Name(s) of Site Supervisor: John W. Wong

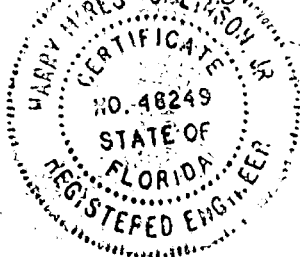
Date Site inspection is requested: January 11, 1999

This is to certify that, with the exception of any deviation noted above, the construction of the project has been completed in substantial accordance with the plans authorized by Construction

Permit No.: 35435-001-SC Dated: 04/09/98

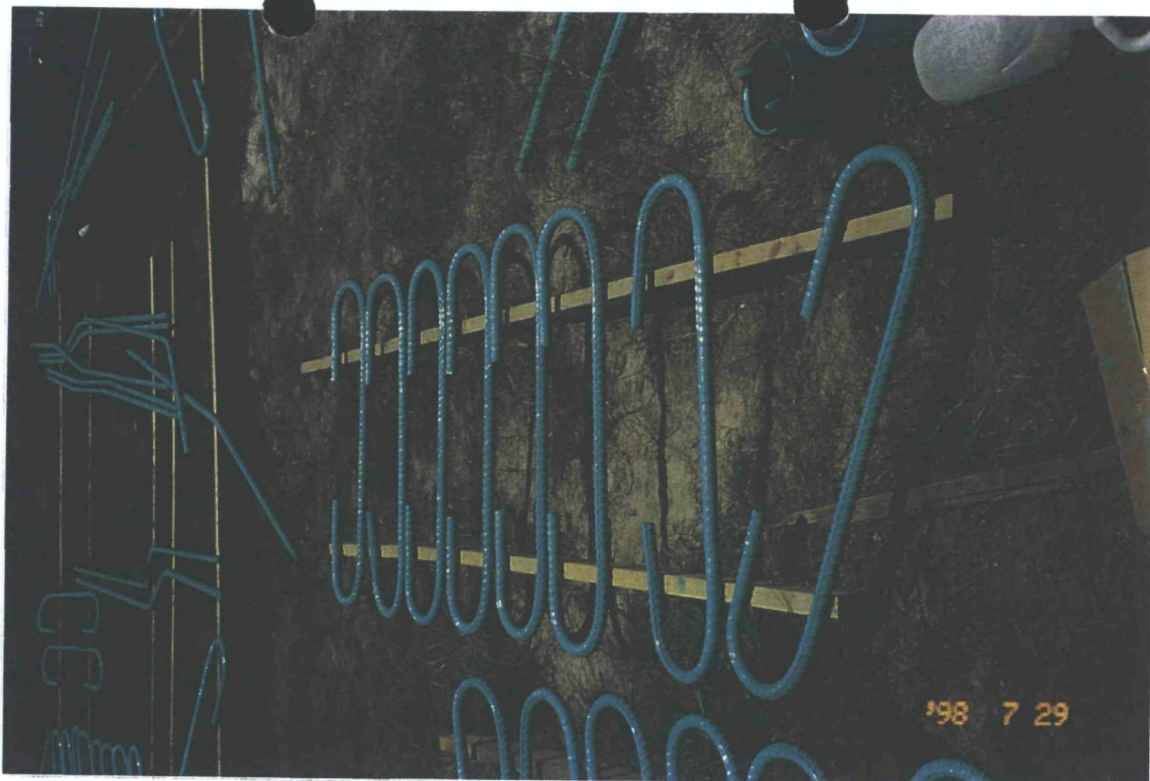
Date: 18 DECEMBER 1998

Harry M. Johnson
Signature of Professional Engineer



**PHOTO DOCUMENTATION
FOR THE CONSTRUCTION OF
PUMP STATION B - PHASE I & II
AT THE
SOUTHEAST LANDFILL
HILLSBOROUGH COUNTY, FLORIDA**





Photograph No. 1. ERC cleaned reinforcing bars with a wire brush and coated them with LO Primer (epoxy primer) and Permakote Patch Compound (epoxy coating) manufactured by Pilgrim Permacoat Inc.



Photograph No. 2. ERC installed reinforcing bars using wire ties and wooden forms. GeoSyntec inspected for clearance and bar placement prior to concrete pouring.



Photograph No. 3. ERC prepared the excavation for the vault and installed the geogrid support system. The cranes in the background were used later in the day to place the base of the vault in the excavation.



Photograph No. 4. ERC anchored and tensioned the geogrid using a trackhoe.



Photograph No. 5. ERC placed a geotextile and 6-in. thick layer of No. 57 granite aggregate in the vault excavation above the geogrid support layers.



Photograph No. 6. ERC placed the base of the vault prior to anchoring the upper geogrid layers. This construction sequence was approved by SCS.



Photograph No. 7. ERC completed the upper geogrid layer and sand backfill before pouring concrete for the vault walls and top.



Photograph No. 8. Test Labs, Inc. (a subcontractor to GeoSyntec) performed concrete slump tests and compressive strength tests.



Photograph No. 9. ERC fabricated the 18-in. diameter pump access pipes using butt fusion welding techniques.



Photograph No. 10. ERC performed hydrostatic testing after the pipes were fabricated.



Photograph No. 11. ERC installed the pump access pipes and extended the existing leachate collection pipes to the vault.



Photograph No. 12. ERC overlapped the geotextile separator surrounding the pipe bedding aggregate with the geotextile separator below the vault bedding aggregate and placed No. 57 granite vault backfill.



Photograph No. 13. ERC placed a 6-in. thick layer of filter rock (3/8 in. gradation) above the No. 57 granite vault backfill.



Photograph No. 14. ERC placed a 6-in. thick layer of coarse sand (6/20 gradation) above the filter rock. The filter rock and coarse sand formed a two layer aggregate filter.



Photograph No. 15. ERC installed a boot and patches on the existing CSPE geomembrane liner at the north perimeter berm where the 18-in. diameter pump access pipe was installed through the berm. Standard chemical adhesive seaming techniques were used.



Photograph No. 16. The GeoSyntec field technician used the air lance method to non-destructively test the chemical adhesive seams in the CSPE geomembrane liner prior to backfilling the excavation in this area.

APPENDIX D

JETCLEANING AND VIDEO INSPECTION REPORT

**FLORIDA JET CLEAN, INC.
(NOVEMBER 2, 1998)**

FLORIDA JETCLEAN INC.

HIGH PRESSURE WATER JETTING
VIDEO PIPELINE INSPECTION
PO DIG POINT REPAIRS

37 WINDWARD ISLAND
CLEARWATER, FL 33767-2322
TEL: 800-226-8013 FAX: 727-442-2222

HILLSBOROUGH COUNTY SOUTHEAST LANDFILL

JETCLEANING AND VIDEO INSPECTION REPORT

WORK CARRIED OUT BETWEEN 10/12/98 AND 11/2/98

JETCLEANING

All lines jetcleaned successfully with the exception of Phase VI where the pipe from Cleanout # 6 to the sump proved (on video inspection) to be crushed at 220'.

As will be seen on the video tapes, there was however construction debris and dirt in some of the lines and this has all been removed (repeated jetting was required in some cases).

VIDEO INSPECTION

- N.B. 1. All tape references to Phase IV relate to Phase VI.
2. Cleanout numbers used correspond to the marked up drawing accompanying this report.

TAPE 1

Phase V	Cleanout 2	433'	
	Cleanout 4	24'	Tractor could not pass. Need to re-video with push rod system.
	Cleanout 5	664'	
Phase VI	Cleanout 1	180'	Sand still in line. Re-jet required.
Phase V	Cleanout 3	269'	Blockage. Re-jet required.
	Cleanout 1	345'	
Phase VI	Cleanout 3	18'	Tractor could not pass. Need to re-video with push rod system.
	Cleanout 2	18'	As above

FLORIDA JETCLEAN INC.

HIGH PRESSURE WATER JETTING
VIDEO PIPELINE INSPECTION
NO DIG POINT REPAIRS

37 WINDWARD ISLAND
CLEARWATER, FL 33767-2322
TEL: 800-226-8013 FAX: 727-442-2222

TAPE 2

Phase VI	Cleanout 4 from sump	138'	
	Cleanout 5 from sump	428'	
	Cleanout 1 from sump	598'	Needs re-jet, rocks in pipe at 100'
	Cleanout 7 from sump	494'	
	Cleanout 6 from sump	48'	Needs re-jet, sand in pipe

TAPE 3

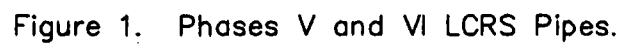
Phase VI	Cleanout 1	582'	Re-video after removal of rocks.
Phase V	Cleanout 4	444'	Re-video with push rod forward and back.
Phase VI	Cleanout 3	375'	Re-video with push rod.
	Cleanout 2	317'	As above
Phase V	Cleanout 3	527'	Re-video after further jetting
Phase VI	Cleanout 6 from sump	220'	Pipe crushed at this point
	Cleanout 1 from sump	611'	Re-video after further jetting

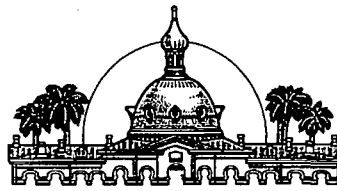
TAPE 4

Phase VI	Cleanout 1 from road	700'	Re-video after further jetting
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CONCLUSION

With the exception of Phase VI - Cleanout 6 which shows a crushed section of Pipe at 220', all other leachate pipes appear to be structurally sound and capable of functioning as designed.





Hillsborough County
Florida

Office of the County Administrator
Daniel A. Kleman

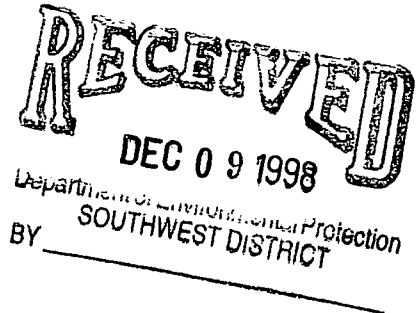
BOARD OF COUNTY COMMISSIONERS

Pat Frank
Chris Hart
Jim Norman
Jan Platt
Thomas Scott
Ronda Storms
Ed Turanchik

Deputy County Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunzeker
Jimmie Keel

December 9, 1998



Mr. Kim Ford, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Southeast County Landfill - Legal Advertisement Proof of Publication

Dear Mr. Ford:

In accordance with Section 403.815, Florida Statutes and Rule 62-103.150, F.A.C., the Hillsborough County Solid Waste Management Department (SWMD) is providing proof of publication of the legal advertisement for the Florida Department of Environmental Protection's (DEP) Notice of Proposed Agency Action on the Southeast County Landfill's Phases V and VI Operations Permit.

The proof of publication was provided to the SWMD by the Tampa Tribune on December 9, 1998 and the ad ran on December 8, 1998.

Please advise should you have any questions concerning the information provided.

Sincerely,

Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

Attachment

xc: Larry Ruiz, SCS
Paul Schipfer, EPC

THE TAMPA TRIBUNE
Published Daily
Tampa, Hillsborough County, Florida

State of Florida }
County of Hillsborough } ss.

D.E.P.

DEC - 9 1998

SOUTHWEST DISTRICT
TAMPA

Before the undersigned authority personally appeared J. Rosenthal, who on oath says that she is Classified Billing Manager of The Tampa Tribune, a daily newspaper published at Tampa in Hillsborough County, Florida; that the attached copy of advertisement being a

LEGAL NOTICE

in the matter of _____

STATE OF FLORIDA

was published in said newspaper in the issues of _____

DECEMBER 8, 1998

Affiant further says that the said The Tampa Tribune is a newspaper published at Tampa in said Hillsborough County, Florida, and that the said newspaper has heretofore been continuously published in said Hillsborough County, Florida, each day and has been entered as second class mail matter at the post office in Tampa, in said Hillsborough County, Florida for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid nor promised any person, this advertisement for publication in the said newspaper.

J. Rosenthal
8

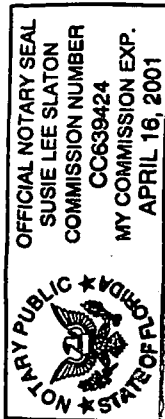
Sworn to and subscribed before me, this _____ day
of _____ DECEMBER, A.D. 1998

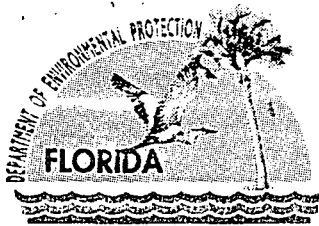
Personally Known _____ or Product Identification _____
Type of Identification Produced _____

(SEAL)

Susie Lee Slaton

State of Florida
Department of Environmental
Protection
Notice of Application
The Department announces
receipt of an application for
an operation permit modifica-
tion from Mr. Daryl Smith of
Hillsborough County Solid
Waste Management Depart-
ment to operate Phases V and
VI of the Southeast County
Landfill subject to Depart-
ment rules, located 8.8 miles
east of U.S. 301, on CR 672,
Southeast to Tampa, Hillsbor-
ough County, Florida.
This application is being
processed and is available for
public inspection during nor-
mal business hours, 8:00 a.m.
to 5:00 p.m., Monday through
Friday, except legal holidays,
at the Department of Environ-
mental Protection, Southeast
District Office, 3804 Coconut
Palm Drive, Tampa, Florida
33619-8318.
5040 12/8/98





Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

December 1, 1998

Mr. Daryl Smith
Hillsborough County
Solid Waste Management Department
P. O. Box 1110
Tampa, FL 33601

Re: Southeast County Landfill Phases V and VI
Pending Modification #35435-003
Permit #SO29-256427, Hillsborough County

Dear Mr. Smith:

This is to acknowledge receipt of your request for a permit modification, received November 2, 1998 to operate Phases V and VI of the Southeast County Landfill.

This letter constitutes notice that a permit modification will be required for your project pursuant to Chapter(s) 403, Florida Statutes.

Your request for a permit modification is incomplete. Please provide the information listed below promptly. Evaluation of your proposed project will be delayed until all requested information has been received.

The following information is needed in support of the solid waste applications [Chapters 62-701, Florida Administrative Code (F.A.C.)]. Please provide:

1. Proof of publication of notice of application pursuant to Rule 62-103.150, see attached notice.
2. Certification of Construction Completion and record drawings for all new components such as PPS-A, PPS-B and the chipped tire trenches.
3. Final report regarding the leachate storage tank inspection and treatment facility repairs.
4. Explanation for use of PPS-A as a backup for PPS-B.
5. Description of rain tarp disposal or assurance that leaving it in place will not increase the potential for sideslope seepage.
6. Assurance that leachate will not mix with stormwater along the "lined berm" or at stormwater inlets.

Mr. Daryl Smith
Hillsborough County

December 1, 1998
Page Two

7. The results/documentation of jet cleaning the Phases V and VI LCRS.
8. Top of clay data. All relevant tables, figures and drawings should be included or replaced.
9. Results of a demonstration to verify pump replacement in PPS-B in 4 hours.
10. Results of pump performance tests for each new pump for PPS-B.
11. Regrading plans and elevations for rain tarps to promote drainage.
12. Explanation for deviation from previous Lift 7E sequence of filling. Clarification is needed for the slope and maximum fill height for each layer of waste.

"NOTICE! Pursuant to the provisions of Section 120.600, F.S. and Chapter 62-12.070(5), F.A.C., if the Department does not receive a response to this request for information within 90 days of the date of this letter, the Department may issue a final order denying your application. You need to respond within 30 days after you receive this letter, responding to as many of the information requests as possible and indicating when a response to any unanswered questions will be submitted. If the response will require longer than 90 days to develop, an application for new construction should be withdrawn and resubmitted when completed information is available. Failure to comply with a time table accepted by the Department will be grounds for the Department to issue a Final Order of Denial for lack of timely response. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant can reapply as soon as the requested information is available."

Please submit your response to this letter as one complete package. On all future correspondence, please include Robert Butera on distribution. 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

Attachment

cc: Patricia Berry, SWMD
Robert Gardner, P.E., SCS
Larry Ruiz, SCS
Paul Schipfer, EPCHC
Robert Butera, P.E., FDEP Tampa

62-103.150 Public Notice of Application and Proposed Agency Action

(1) Each person who files an application for a Department permit may publish, or may be required to publish, and provide proof of publication to the Department, at his own expense, a Notice of Application in a newspaper of general circulation in the county in which the activity will be located or take place. Publication of a Notice of Application shall be required for those projects which, because of their size, potential effect on the environment or natural resources, controversial nature, or location, are reasonably expected by the Department to result in a heightened public concern or likelihood of request for administrative proceedings. If required, the notice shall be published one time only within fourteen (14) days after a complete application is filed and shall contain:

(a) name of applicant, a brief description of the project and its location;

(b) where the application file is located and when it is available for public inspection;

(c) the notice shall be prepared by the Department and shall comply with the following format:

**State of Florida
Department of Environmental Protection
Notice of Application**

The Department announces receipt of an application for an operation permit modification from Mr. Daryl Smith of Hillsborough County Solid Waste Management Department to operate Phases V and VI of the Southeast County Landfill subject to Department rules, located 8.8 miles east of U.S. 301 CR 672, Southeast to Tampa, Hillsborough County, Florida.

This application is being processed and 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 the Department of Environmental Protection, Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.

ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY (813) 272-5960

ROUTING SLIP

TO: Kim Ford, RE.
FDEP

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____

RECEIVED
DEC 03 1998
D E P
6. _____
7. _____
8. _____
9. _____
10. _____

- | | | |
|---------------------------------------|--|---|
| <input type="checkbox"/> ACTION | <input checked="" type="checkbox"/> FILING | <input type="checkbox"/> RECOMMENDATIONS |
| <input type="checkbox"/> APPROVAL | <input type="checkbox"/> FULL REPORT | <input type="checkbox"/> CALL ME |
| <input type="checkbox"/> AS REQUESTED | <input type="checkbox"/> HANDLE DIRECT | <input type="checkbox"/> SEE ME |
| <input type="checkbox"/> CONCURRENCE | <input type="checkbox"/> INITIAL | <input type="checkbox"/> SIGNATURE |
| <input type="checkbox"/> CORRECTION | <input type="checkbox"/> NOTE & RETURN | <input type="checkbox"/> YOUR COMMENT |
| | <input type="checkbox"/> PER CONVERSATION | <input type="checkbox"/> YOUR INFORMATION |

☐ ANSWER OR ACKNOWLEDGE ON OR BEFORE _____

☐ PREPARE REPLY FOR SIGNATURE OF _____

REMARKS: Hard copy follow up for
fax sent 12/1/98

FROM: Paul Schripter

DATE: 12/2/98

COMMISSION

DOTTIE BERGER
JOE CHILLURA
CHRIS HART
JIM NORMAN
JAN PLATT
THOMAS SCOTT
ED TURANCHIK

EXECUTIVE DIRECTOR

ROGER P. STEWART



ADMINISTRATIVE OFFICES, LEGAL &
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FAX (813) 272-5157

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TELEPHONE (813) 272-5530

WASTE MANAGEMENT DIVISION
TELEPHONE (813) 272-5788

WETLANDS MANAGEMENT DIVISION
TELEPHONE (813) 272-7104

MEMORANDUM

DATE: December 1, 1998

TO: Kim Ford, P.E., FDEP SW-Permitting

FROM: Paul A. Schipfer, E.I., EPC SW-Permitting

**SUBJECT: HILLSBOROUGH COUNTY SOUTHEAST LANDFILL OPERATION PERMIT
MODIFICATION REQUEST ADDRESSING LEACHATE MANAGEMENT AND
UTILIZATION OF PHASE V AND PHASE VI**

RECEIVED
DEC 03 1998
D E P

EPC has reviewed the above referenced document received on November 2, 1998. Based on our review, EPC believes the following issues require additional address. Therefore, please incorporate the following comments with the FDEP's incompleteness response.

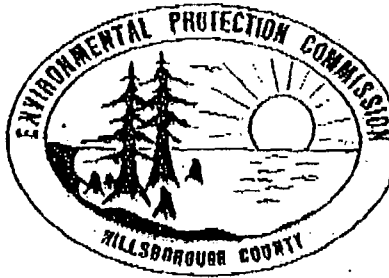
- 1) Certification of completion has not been received for the tire trenches, permanent pump station A (PPS-A), nor permanent pump station B (PPS-B). These issues need to be addressed as specific conditions to the permit or submitted and reviewed prior to the issuance of the modification request.
- 2) In addition to 1 above, PPS-A is identified as a backup for PPS-B, the applicant should address specifically how this will be accomplished. Elevations, effectiveness, etc.
- 3) Is there an increased potential for lateral migration and side wall seepage of leachate as a result of leaving the rain tarps in place? Does the applicant know of facilities that have utilized rain tarps and destroyed them in place with a landfill compactor as is described in the application request? If so, please provide this information.
- 4) Removal of the wellpoint system and the piezometer in Phase IV are directly correlated to one another. Therefore, it seems prudent to expect the testing and demonstration of the leachate collection system's success be required prior to the removal of either the system or device. Further, the applicant is advised that leachate levels exceeding 30 inches as is described on page 20 of the application report, will require accelerated leachate removal.
- 5) Please provide in greater detail, how mixing of stormwater and leachate will be avoided while the temporary existing stormwater inlets in Phase V and Phase VI are left open and in place while phases are active.

COMMISSION

DOTTIE BERGER
JOE CHILLURA
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ED TURANCHIK

EXECUTIVE DIRECTOR

ROGER P. STEWART



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TELEPHONE (813) 272-7104

ENVIRONMENTAL PROTECTION COMMISSION
of Hillsborough County

FAX Transmittal Sheet

12/1/98
~~12/1/98~~
DATE: ~~11/25/98~~

TO: Kim Ford P.E.FAX Phone: 744-6123Voice Phone: 744-6100(x382)TOTAL NUMBER OF PAGES INCLUDING THIS COVER PAGE: 2

EPC FAX Transmission Line: (813) 276-2256 For retransmission or any FAX problems, call: (813) 272-5788

FROM: Paul Schipfel

(circle applicable phone number and organization below)

(813) 272-5960

(813) 272-5530

(813) 272-5788

(813) 272-5960

(813) 272-7104

Executive Director

Air Division

Waste Management

Water Division

Wetlands Management

Legal Counsel

- Special Programs

- UST Clean-Up

- Enforcement

- Environmental Engineering

Finance & Administration

- Air Engineering

- Solid/Hazardous Waste

- Water Engineering

- Environmental Assessment

- Accounting & Budgeting

- UST Compliance

- Monitoring & Analysis

- Compliance & Enforcement

- Data Processing/MIS

SPECIAL INSTRUCTIONS:

Hard Copy will be in the mail.

COMMISSION

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JOE CHILLURA
CHRIS HART
JIM NORMAN
JAN PLATT
THOMAS SCOTT
ED TURANCHIK

EXECUTIVE DIRECTOR

ROGER P. STEWART



ADMINISTRATIVE OFFICES, LEGAL &
WATER MANAGEMENT DIVISION
1900 - 9TH AVENUE
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TELEPHONE (813) 272-5360
FAX (813) 272-5157

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TELEPHONE (813) 272-5630

WASTE MANAGEMENT DIVISION
TELEPHONE (813) 272-5789

WETLANDS MANAGEMENT DIVISION
TELEPHONE (813) 272-7104

MEMORANDUM

DATE: December 1, 1998

TO: Kim Ford, P.E., FDEP SW-Permitting

FROM:  Patricia A. Schipfer, E.I., EPC SW-Permitting

SUBJECT: HILLSBOROUGH COUNTY SOUTHEAST LANDFILL OPERATION PERMIT
MODIFICATION REQUEST ADDRESSING LEACHATE MANAGEMENT AND
UTILIZATION OF PHASE V AND PHASE VI

EPC has reviewed the above referenced document received on November 2, 1998. Based on our review, EPC believes the following issues require additional address. Therefore, please incorporate the following comments with the FDEP's incompleteness response.

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Department of Environmental Protection

Lawton Chiles
Governor

Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000

Virginia B. Wetherell
Secretary

November 24, 1998

Robert B. Gardner, P.E.
SCS Engineers
3012 U.S. Highway 301 North
Suite 700
Tampa, Florida 33619-2242

RE: Southeast County Landfill, Hillsborough County, Florida

Dear Mr. Gardner:

Mary Jean Yon has asked me to respond to your letter of October 9, 1998, in which you asked whether a proposed drinking water supply reservoir would conflict with a proposed expansion of the Southeast County Landfill in Hillsborough County. I have attempted to address each of your three specific questions

I am not aware of any precedents relating to landfill disposal facilities and water supply reservoirs that would prohibit or restrict future landfill expansion. Of course, there may have been decisions made at the local level regarding the siting of either landfills or reservoirs that have not been brought to my attention.

I agree with your analysis that the proposed landfill expansion and the location of the proposed water supply reservoir do not conflict with current Department rules. The only applicable rule is Rule 62-701.300(2)(g), Florida Administrative Code (F.A.C.), which prohibits disposal of waste within 200 feet of a surface water body, with some exceptions. You should note, however, that Section 403.707(5), Florida Statutes, prohibits issuance of a construction permit for a "new solid waste landfill" within 3000 feet of Class I surface waters. Chapter 62-302, F.A.C., defines a Class I surface water as one with a designated use as a potable water supply. Class I surface waters must be specifically designated in that rule chapter, and the proposed reservoir is not so designated at this time. It is possible that once it is constructed, the Department may go before our Environmental Regulation Commission and seek to have the reservoir designated as a Class I surface water.

If the reservoir is so designated, the prohibition in Section 403.707(5) would come into play. As I read that statute, it would not apply to a lateral expansion of an existing landfill, but it is possible that the Department could consider the Site A Expansion, or any other expansion, to be a "new" landfill if it is not an integral part of the existing permitted landfill. I do not have enough specific information to make that determination at this time.

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

Printed on recycled paper.

If a construction permit for the proposed landfill expansion is issued by the Department before the proposed reservoir is designated as a Class I surface water (if it ever is), then the 3000-foot setback would not apply to that expansion. I cannot predict with certainty what may happen if regulations or statutes change in the future; I can only say that the Department has typically not applied siting or construction criteria retroactively to existing or permitted solid waste facilities.

I hope that this has answered your questions. If I can be of any further help, please feel free to call me at (850)921-9627.

Sincerely,



Chris McGuire
Assistant General Counsel

cc: Mary Jean Yon, Solid Waste Section
Bob Butera, SW District



Department of Environmental Protection

Lawton Chiles
Governor

Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000

Virginia B. Wetherell
Secretary

November 24, 1998

Robert B. Gardner, P.E.
SCS Engineers
3012 U.S. Highway 301 North
Suite 700
Tampa, Florida 33619-2242

D.E.P.
NOV 30 1998
SOUTHWEST DISTRICT
TAMPA

RE: Southeast County Landfill, Hillsborough County, Florida

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I hope that this has answered your questions. If I can be of any further help, please feel free to call me at (850)921-9627.

Sincerely,

A handwritten signature in cursive script, reading "Chris McGuire".

Chris McGuire
Assistant General Counsel

cc: Mary Jean Yon, Solid Waste Section
Bob Butera, SW District

SOUTHWEST DISTRICT
FDEP

**Solid Waste Program
Permitting Application**

New Site

Site Name:
Site Address:
County:
Type/Subcode:

Existing Site

Site ID:	35435-03
Project Name:	SE LANDFILL - PHASE II AND III
Type/Subcode:	SO MM
Fee Submitted:	250 () correct () incorrect
Fee Refund \$	Fee Request \$

Related Party

Role:	Applicant
Name:	
Company:	Hillsborough County Solid Waste Dept
Street:	PO Box 1110
City:	Tampa FL
Zip Code:	33601
Phone:	

Distribution Date: _____

Fee Checked By: E Ford

Date: 11/13/98

SCS ENGINEERS

November 2, 1998
File No. 0995029.14

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

RECEIVED
NOV 01 1998

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

Subject: Operation Permit Modification Application
To Include Phases V and VI
Southeast County Landfill, Hillsborough County, Florida

Dear Kim:

On behalf of the Hillsborough County Solid Waste Management Department (HCSWMD), SCS Engineers (SCS) is pleased to submit three copies of the application for operation permit modification to include the operation of Phases V and VI of the Southeast County Landfill (SCLF) and the revised Leachate Management Plan. Also enclosed find the \$250 permit review fee. SCS has prepared the revised LMP to address the existing permit conditions, and changes in operations, monitoring, and reporting that will occur when Permanent Pump Station B becomes operational and landfiling begins in Phases V and VI. The revised LMP is intended to supersede the 1995 LMP and the 1996 update.

Your prompt review of this application is requested. The HCSWMD is anticipating to begin landfiling in Phases V and VI sometime in January 1999. The HCSWMD and SCS are ready to meet with you to promptly resolve any questions or provide additional information.

Please do not hesitate to call if you have any questions.

Very truly yours,

Larry E. Ruiz
Larry E. Ruiz
Project Manager

Robert B. Gardner

Robert B. Gardner, P.E.
Vice President
SCS ENGINEERS

LER/RBG:ler
attachments

cc: Patricia V. Berry, HCSWMD
Paul Schipfer, EPC



BOARD OF COUNTY COMMISSIONERS

HILLSBOROUGH COUNTY, FLORIDA
P. O. Box 1110
Tampa, FL 33601

NationsBank

NationsBank 634-630
NationsBank, N. A.
Jacksonville, FL
Member FDIC

Warrant Number

Date

01725575

10/27/1998

Net Amount

\$ *****250.00

PAY ***Two Hundred Fifty and 00/100 Dollars***

TO THE
ORDER OF

FL DEPT ENVIRONMENTAL PROTECTION
DBA FL DEPT ENVIRONMENTAL PR
3804 COCONUT PALM DR
TAMPA FL 33619



Authorized In Open Session

Thomas Scott

CHAIRMAN

R. J. Ahl

CLERK

SIGNATURE HAS A COLORED BACKGROUND - BORDER CONTAINS MICROPRINTING

⑈0001725575⑈ ⑆063000047⑆

2710020148⑈

Vendor Number: 596007353 01 HILLSBOROUGH COUNTY, FLORIDA

Check Date: 10/27/1998

Check Number: 01725575

Document Number	Document Reference Number	Description	Net Amount
VFSW99005156 01		*10 21 98 PERMIT FEE*SO COUNTY LANDFILL <i>SW</i> <i>11/2</i>	250.00
Total >>>			*****250.00

To: Richard Garrity, Ph.D. & William Kutash

From: Bob Butera *RB*

Date: 11/12/98

Re: Site 8 Reservoir Siting Preliminary Evaluation - Hillsborough County.

Mary Jean Yon received the attached October 9, 1998 letter from Hillsborough County consultants requesting FDEP concerns including rule violations to would impact such a siting. Mary Jean was also the only FDEP person copied on the October 8, 1998 memo as well. The solid waste section has received no calls on this matter. *pf*

I suggest we circulate this request to sections which you feel may have concerns. Once we have reviewed this (note that Kim sent a fax with some set back comments) but it appears unclear what requirements apply. This does not seem to be a very good location for a reservoir.

Mary Jean requests that I coordinate a date for a teleconference on this matter so that we could provide her the necessary information to draft a response. Please give me some windows of time to set up the teleconference after all appropriate sections have reviewed the attached.

Mary says needs date for teleconference

To: Bob Butera & Rick Garrity

From: M. Hickey

cc: Bob Stetler

Redo Rivera

Paul O'Neal (SWFWMD)

Judy Richter

Joe May

Diana Booth

Jim Duncan (DOT) Chas. Kovach (w/ enclosure)

We in Water Facilities will be happy to meet and identify the major permitting obstacles.

This is a candidate for Team Permitting by DEP.

Otherwise the major permitting authorities are delegated programs, specifically Hillsborough County, Dept. of Health for Drinking Water and SWFWMD for ERP.

I suggest you coordinate ERP input with Bob Stetler. Contact Diana Booth to coordinate WF (TS+Drk Wtr) attendance. I suggest you give thought to inviting Delegated Agencies.

11/3
Bob
for your file
pf

11/16
M. H.
Bob S.
F.Y.I.

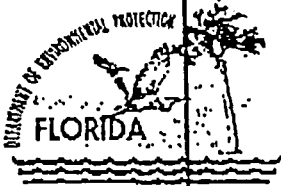
Dr. Garrity

orig. back to
Bill K
sketch
(Bill - I'd have a say in final draft.)

M. H. 12/2

NOV-09' 98 (MON) 09:42 FDEP

P. 001



Department of Environmental Protection

Lawton Chiles
GovernorTwin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400Virginia B. Wetherell
Secretary

FAX TRANSMITTAL LETTER

DATE:

November 9, 1998

TO:

Susan Peltz Bob / Kim

AGENCY:

Southwest District

FAX NUMBER:

813/744-6125

NUMBER OF PAGES:

6

FROM:

Mary Jean Yan

DIVISION/BUREAU:

Solid WasteOUR FAX NUMBER: 850/414-0414WEB SITE: <http://www.dep.state.fl.us/waste/index.htm>If any of the pages are not clearly received, please
call 850/488-0300 or SUNCOM 278-0300.

SENDERS NAME: _____

COMMENTS:

Susan,
Here's the letter from Hillsborough County.
Let me know what you find out.
Thanks, MS

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

HILLSBOROUGH COUNTY

FLORIDA

Office of the County Administrator
Daniel A. Kleman

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Ed Turnachik

Deputy County Administrator
Patricia Bean

Assistant County Administrator
Edwin Hunsaker
Jimmie Keel



October 12, 1998

C. Edwin Copeland, PE
HDR Engineering
Suite 300
5100 W. Kennedy Blvd.
Tampa, Florida 33609-1840

RE: Site 8 Reservoir Siting Preliminary Evaluation

Dear Mr. Copeland:

The Solid Waste Management Department (SWMD) has completed its preliminary review of Site 8, the potential location for the new water supply reservoir being considered by Tampa Bay Water. As you are aware, Site 8 encompasses County property purchased from Dr. Pruitt for use by the Solid Waste Management System (System) and Parks Department. The SWMD continues to evaluate potential impacts associated with the siting of the reservoir adjacent to the County's Southeast County Landfill (SCLF) and any future landfill capacity expansion areas.

Based on discussions held to date with HDR, siting consultant to Tampa Bay Water, and input from County staff, the SWMD offers the following comments concerning Site 8.

Issue 1 - Future Landfill Permitting

The SWMD is investigating the potential impact of the reservoir siting on the County's plans for future landfilling on SWMD property identified as expansion areas Site A, to the north, and Site B, to the east of the SCLF (see attached SWMD Master Plan). The SWMD has contacted the Florida Department of Environmental Protection (DEP) to determine potential prohibitions and buffer requirements regarding the permitting of a landfill expansion near a surface water supply such as the proposed reservoir. The SWMD is awaiting the DEP's response to this issue.

1 1998

Mr. Ed Copeland
October 12, 1998
Page Two

The SWMD has reserved the identified System property to provide for the long-term solid waste management needs of the County. Should it be determined that the reservoir will, in any way, negatively impact the permitting of future landfill development on the System property, the SWMD would recommend against the siting of the reservoir at Site 8.

This concern also applies to future County land use and zoning restrictions which may impact future landfill expansion due to the location of the reservoir. The County will require written assurance that the Southeast County Facility property is "grandfathered-in" and that future regulatory prohibitions related to water supplies and landfill permitting will not be imposed at this location.

In addition, the SWMD would recommend, to the County's Real Estate Department, that any property sale papers drawn up for this real estate transaction include a statement from Tampa Bay Water which addresses the following.

Tampa Bay Water is aware of the current landfiling activity on the County's property. Tampa Bay Water will not now, nor in the future, object to the SWMD's permitting, construction, or operations of future landfill expansion on the System property.

Issue 2 - SWMD's Identified Uses for Pruitt Property

When the System purchased the Pruitt property in 1995, the SWMD identified several proposed uses for the 325 acres reserved for the solid waste management system. These uses include: treated leachate effluent spray irrigation areas; use as a soil borrow source; habitat relocation; wetland mitigation; and buffer areas.

The SWMD will require alternate land to provide for potential future effluent spray irrigation. HDR has indicated that Tampa Bay Water will likely purchase additional Pruitt property and that parcels should be available to provide for effluent spray irrigation. The SWMD is requesting that Tampa Bay Water confirm that additional land will be available for this use and determine whether this is an acceptable and permissible practice adjacent to a water supply reservoir.

Concerning the soil borrow source, HDR has indicated that, through the reservoir construction process, cover material can be made available to the SWMD. The quantity of cover material that may be made available to the SWMD following construction of the reservoir has yet to be determined. HDR must provide this information, as well as the proposal for transferring the cover material to the SWMD borrow area, as soon as it is available.

Mr. Ed Copeland
October 12, 1998
Page Three

The other identified potential property uses, such as wetland mitigation, habitat relocation and buffer, relate to future landfill expansion requirements. At this time, the amount of land which may be necessary to satisfy regulatory requirements during the permitting process for this future landfill expansion is unknown. The SWMD will likely require additional land for these future purposes to offset the loss of the System-purchased Pruitt property.

Issue 3 - Potential Hydrogeological Impacts

The SCLF is surrounded by a ground and surface water monitoring network. The SWMD will require that HDR provide copies of all soil borings and other information from their site specific geotechnical investigation to determine potential impacts on the hydrogeology surrounding the SCLF. Although the reservoir is planned to have sidewall liners and a slurry wall constructed around the reservoir, HDR has indicated that the reservoir will have some bottom seepage associated with its design.

HDR has also indicated that, while the reservoir is an above-ground containment structure, excavation will take place. The SWMD is requesting that HDR provide all available information on the proposed reservoir excavation and construction plans, to allow the SWMD to further assess the potential impacts on the surrounding hydrology.

Issue 4 - Reservoir Siting, Public Perception and Related Liability Issues

While HDR, in performing the siting study for the reservoir at Site 8, has likely considered the proximity to the SCLF, the SWMD requests that Tampa Bay Water verify that there are no regulatory prohibitions, such as setbacks, etc., impacting the siting of a public water supply reservoir adjacent to an active Class I landfill. In addition, the public perception of a reservoir co-located with a landfill could result in negative implications during the public participation process. This perception could also have an impact during the reservoir permitting process. Finally, should a water quality problem develop with the reservoir, the SWMD is concerned that the potential exists for the County to be somehow implicated in creating and being required to correct those problems. While it is highly improbable that the SCLF will have any impact on the reservoir, the County could find itself in a position of being the "closest" potential influencing factor.

The SWMD believes that a reservoir would be beneficial to Hillsborough County and that, overall, Site 8 appears to be suitable for siting a reservoir. However, the SWMD is unable to fully support Site 8 until Tampa Bay Water can assure the County that the reservoir will not in any way impact current landfill operations and future landfill expansion on the County's Southeast County Facility property.

OV-09' 98 (MON) 09:45 FDEP

Mr. Ed Copeland
October 12, 1998
Page Four

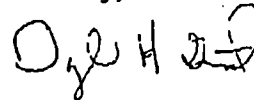
In addition, with the short evaluation timeframe and requirement for additional information, the SWMD will not be able to fully assess the potential impacts of the reservoir on the Southeast County Facility and future landfilling in the County prior to this issue being presented to the Tampa Bay Water Board of Directors on October 19, 1998.

The SWMD requests that HDR/Tampa Bay Water clearly outline the proposed evaluation/approval schedule for the approval of Site 8 and, more specifically, what action is expected to take place at the October 19, 1998 meeting.

Additionally, it is the SWMD's position that it would be appropriate for Tampa Bay Water to compensate the SWMD for any additional engineering studies, permitting work, construction activity, etc. associated with this property transaction.

At your convenience, the SWMD is available to meet with HDR/Tampa Bay Water to discuss these issues. Please contact Patricia V. Berry, SWMD, at 276-2908 should you have any questions concerning this correspondence or desire to schedule a meeting.

Sincerely,



Daryl H. Smith
Director
Solid Waste Management Department

DHS/pb

Attachment

xc: Pat Bean, Deputy County Administrator
Patricia V. Berry, SWMD
Dan Blood, PGM
Mike Kelly, Real Estate
Peggy Hamric, Real Estate
Scott Emery, EHI
Jim Jeffers, Water Dept.
✓ Mary Jean Yon, DEP
Paul Schipfer, EPC

0895029.44\SEL\FCS.DWG

10/08/98

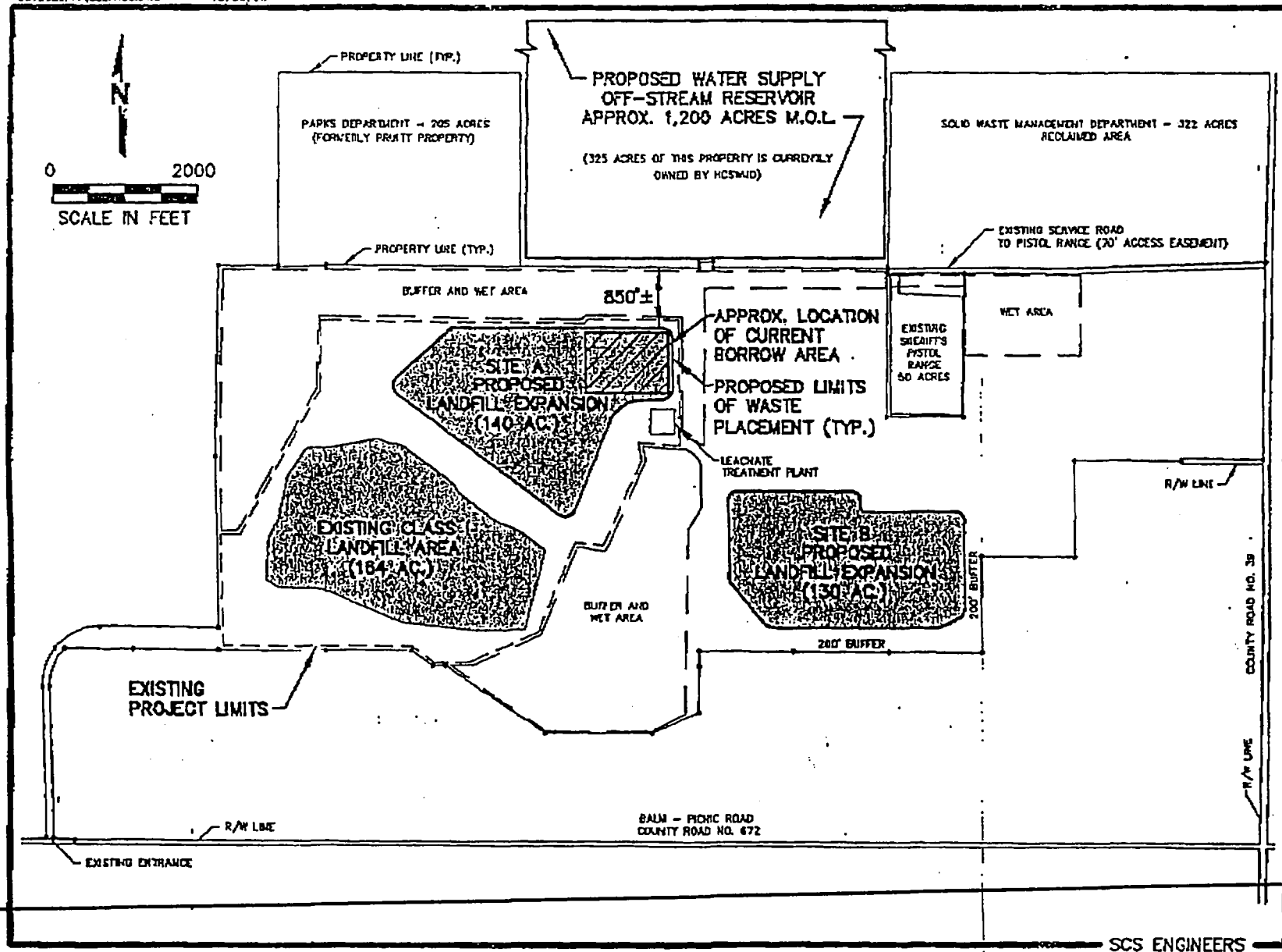
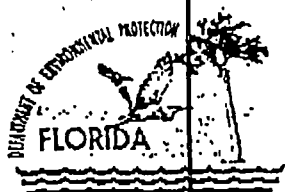


Figure 1. Site Plan, Southeast County Facility.

NOV-09'98 (MON) 09:42 FDEP

P. 001



Department of Environmental Protection

Lawton Chiles
GovernorTwin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400Virginia B. Wetherell
SecretaryFAX TRANSMITTAL LETTERDATE: November 9, 1998TO: Susan Peltz Bob / KimAGENCY: Southwest DistrictFAX NUMBER: 813/744-6125NUMBER OF PAGES: 6FROM: Mary Jean YonDIVISION/BUREAU: Solid Waste

OUR FAX NUMBER: 850/414-0414

WEB SITE: <http://www.dep.state.fl.us/waste/in>If any of the pages are not clearly received, please
call 850/488-0300 or SUNCOM 278-0300.

SENDERS NAME: _____

COMMENTS:

Susan,
Here's the letter from Hillsboro
Let me know what you find c
Thanks, MS

Kim, AA
PLEASE REVIEW &
comment at 2.0 AITM
IT APPEARS SET-BACK
MINIMUM SET-BACK
of 1000' (community
well) SHOULD APPLY
TO THIS SURFACE WATER
BWP/c Bob

My gut feeling
would be why
site a drinking
water supply so
close to the landfill?

SE Hills file
permit

AA 11/17 AA

To: Richard Garrity, Ph.D. & William Kutash

From: Bob Butera

Date: 11/12/98 RB

Re: Site 8 Reservoir Siting Preliminary Evaluation - Hillsborough County

Mary Jean Yon received the attached October 9, 1998 letter from Hillsborough County consultants requesting FDEP concerns including rule violations to would impact such a siting. Mary Jean was also the only FDEP person copied on the October 8, 1998 memo as well. The solid waste section has received no calls on this matter.

I suggest we circulate this request to sections which you feel may have concerns. Once we have reviewed this (note that Kim sent a fax with some set back comments) but it appears unclear what requirements apply. This does not seem to be a very good location for a reservoir.

Mary Jean requests that I coordinate a date for a teleconference on this matter so that we could provide her the necessary information to draft a response. Please give me some windows of time to set up the teleconference after all appropriate sections have reviewed the attached.

Please return this copy to me.

Bob

FDEP

3804 Coconut Palm Drive, Tampa, FL 33619-8318

FAX

Date:

11/11/98

Number of pages including cover sheet:

4

To:

MARY JEAN YON
SOLID WASTE UNIT

Phone:

SL 2780300

Fax phone:

BSO 4140414

CC:

From:

Jim Ford

Phone:

(813) 744-6100

x382

Fax phone:

(813) 744-6125

REMARKS:

☒ Urgent

☒ For your review

☒ Reply ASAP

☐ Please comment

SE Landfill
RESERVOIR ISSUE

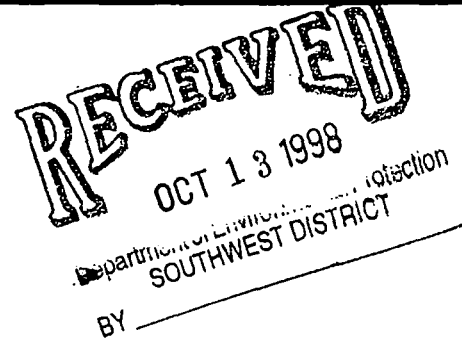
IS RESERVOIR A CLASS I WATER -> 3000'
OR EQUIVALENT TO A COMMUNITY WELL -> 1000'

Jim

SCS ENGINEERS

October 9, 1998
File No. 0995029.44

Mary Jean Yon
Florida Department of Environmental Protection
Solid Waste Management Department
2600 Blaiirstone Road
Tallahassee, Florida 32399-2400



Subject: Southeast County Landfill, Permit No. S029-256427, Hillsborough
County, Florida

Dear Ms. Jon:

The Hillsborough County Solid Waste Management Department (HCSWMD) currently owns and contractually operates the Southeast County Landfill (SCLF), Hillsborough County, Florida (Florida Department of Environmental Protection Permit No. S029-256427). The SCLF's permit allows for the disposal of Class I waste within a 164 acre footprint as shown on Figure 1. Moreover, on behalf of the HCSWMD, SCS Engineers (SCS) currently is preparing a preliminary construction and operation permit application for the future lateral expansion of SCLF, to include an additional 140 acres of landfill disposal area as shown on Figure 1. The proposed limits of waste within the lateral expansion is approximately 850 feet south of the Southeast County Facility's northern property boundary and will not encroach upon the 200-foot property boundary setback requirement that has been established for the landfill.

Concurrent to the HCSWMD's proposed landfill lateral expansion, Tampa Bay Water has tentatively selected an area north and adjacent to the SCLF to construct and operate a 1,200-acre off-stream reservoir as part of their Enhanced Surface Water Supply System (see Figure 1). The proposed location of the water supply reservoir and the HCSWMD's proposed landfill lateral expansion do not appear to conflict with the Rule as set forth in the F.A.C. 62-701.300, Prohibitions (for Solid Waste Facilities), 2, (g) which states:

" Within 200 feet of any natural or artificial body of water, including wetlands within the jurisdiction of the Department, except bodies of water contained completely within the property boundaries of the disposal site, which do not discharge from the site to surface waters. A person may dispose of solid waste within the 200-foot setback area upon demonstration to the Department that permanent leachate control methods will result in compliance with water quality standards under Chapters 62-302 and 62-520, F.A.C. However, nothing contained herein shall prohibit the Department from imposing conditions necessary to assure that solid waste disposed of within the 200 foot setback area will not cause pollution from the site in contravention of Department rules."

The proposed landfill lateral expansion will be constructed and operated in accordance with Chapter 62-701 F.A.C., including a 200-foot minimum setback, leachate management, and stormwater runoff control. Hence, based on the above, it appears



Ms. Mary Jean Yon
October 9, 1998
Page 2

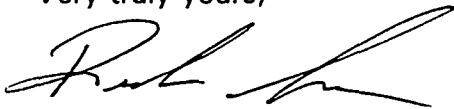
that the proposed SCLF lateral expansion and the location of the proposed water supply reservoir do not conflict with the applicable rules as set forth in Chapter 62-701, F.A.C.

Although the HCSWMD does not initially object to the construction and operation of the proposed water supply reservoir, the HCSWMD is concerned that the proposed location of the water supply reservoir may conflict with future expansion and/or operations of the SCLF within the current property boundary as a result of unknown precedents and/or other applicable Rules. Hence, the HCSWMD and SCS request that the Florida Department of Environmental Protection (FDEP) review and provide a response to the questions posed below:

- Are there any precedents relating to landfill disposal facilities and water supply reservoirs that would prohibit or restrict future landfill expansion as described herein?
- Are there other applicable Rules and/or requirements (other than those as referenced above) relating to landfill disposal facilities and water supply reservoirs that would prohibit future landfill expansion at the SCLF?
- If the regulatory requirements relating to landfill disposal facilities and water supply reservoirs change in the future whereby the proposed future landfill expansion as described herein conflicts with any such regulatory change, would FDEP grandfather in the SCLF's proposed lateral expansion?

Tampa Bay Water is scheduled to bring their site location recommendation to their board of directors for review on October 19, 1998. The HCSWMD and SCS appreciate your consideration of this matter and look forward to the FDEP's prompt response. If you have any questions and/or require additional information, please call Ms. Patricia Berry (HCSWMD) at 813-276-2908.

Very truly yours,



Richard A. Siemering
Senior Project Engineer
SCS ENGINEERS



Robert B. Gardner, P.E.
Vice President
SCS ENGINEERS

Attachment
RBG/RAS:rs

Cc: Patricia Berry, HCSWMD
Kim Ford, FDEP
Robert Butera, FDEP

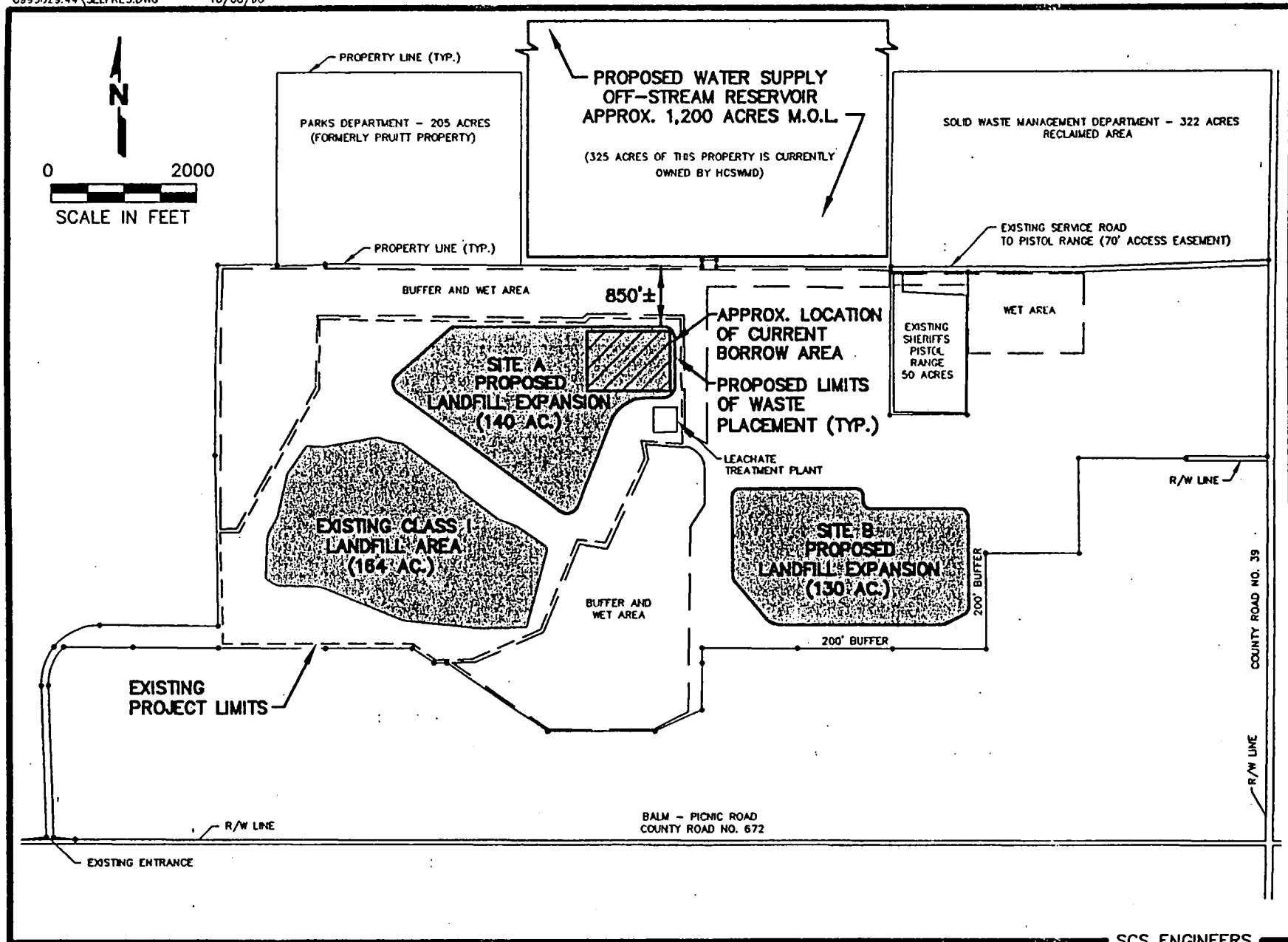


Figure 1. Site Plan, Southeast County Facility.

Transmit Confirmation Report

No. : 008
Receiver : 8-1-850-414-0414
Transmitter : WASTE MGT TAMPA SWDIST
Date : Nov 12 98 12:52
Time : 02'25
Mode : Norm
Pages : 04
Result : OK

SCS ENGINEERS

November 9, 1998
File No. 0995029.24



Mr. John W. Johnson
Hillsborough County
Solid Waste Management Department
P. O. Box 1110
Tampa, Florida 33601

RECEIVED
NOV 10 1998
D E P

Subject: Telephone Conversation With Kim Ford, P.E., of the Florida Department of Environmental Protection, Regarding the Manning Requirements for the Leachate Treatment And Reclamation Facility, Southeast County Landfill, Hillsborough County, Florida

Dear John:

On November 9, 1998, Rich Siemering of SCS Engineers (SCS) had a telephone conversation with Mr. Kim Ford, P.E., of the Florida Department of Environmental Protection (FDEP) regarding the manning requirements for the Leachate Treatment and Reclamation Facility (LTRF) at the Southeast County Landfill, Hillsborough County, Florida. Specifically, Mr. Siemering informed Mr. Ford of A.O. Inc.'s (AO) proposal for revising the manning of the LTRF. Mr. Siemering read excerpts from SCS' November 3, 1998 letter to the County to Mr. Ford stating AO's proposal items including:

- Provide one FDEP certified Class "A" operator to be on site a minimum of one day per week. AO further states that it is anticipated that the Class "A" operator will be on site two to three days per week and that this person will have a pager and cellular phone to maintain communication with LTRF personnel. In addition, the Class "A" operator will supervise and be directly responsible for the operation of the LTRF.
- Provide one operator (non-certified) for the day to day LTRF operations. This operator (Mr. Harrison) is stated to have over seven years experience with the operation of industrial wastewater facilities and is knowledgeable of the types of chemicals and processes utilized at the LTRF.
- Provide one maintenance/equipment operator for the day to day LTRF maintenance and repairs. This person (Mr. Tilford) is stated to have 18 years of experience in the utility services industry.
- Utilizing the manpower as described above, AO stipulates that the LTRF will be manned for 88 hours per week whereby equating to 4,576 hours per year; an additional 936 hours as compared to the original manning requirements in the contract documents.

Mr. John W. Johnson
November 9, 1998
Page 2

- AO states that they will provide the services as described above and meet all other contractual requirements without requesting an increase in the Contract Price.

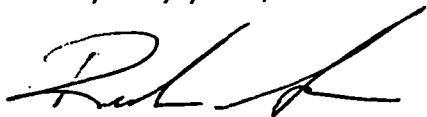
Moreover, Mr. Siemering stated to Mr. Ford that Rule 62-699.310 F.A.C. "Classification and Staffing Requirements for Wastewater Treatment Plants and Lead/Chief Operators, Category II, Activated sludge process or modification, other than extended aeration with or without filters" (most similar to the LTRF), requires that a Category II Facility that treats less than 0.1 million gallons per day (the LTRF averages 0.06 million gallons per day) shall be staffed by an operator with a Class "C" license or higher for a half-hour per day, 5 days per week, and a weekend visit.

Based on the above, Mr. Ford stated that the above Rule does not necessarily apply to the LTRF given that the LTRF is not a domestic wastewater treatment facility. Moreover, Mr. Ford stated that the LTRF is a pretreatment facility which does not discharge into state waters but rather the effluent is either hauled to a domestic wastewater treatment facility for further treatment and/or is used for irrigation purposes on top of the SCLF. Mr. Ford indicated that he does not object to AO's proposal for manning the LTRF provided that the manning requirements as set forth above do not contradict language in the SCLF's permit, operations plan, and/or the leachate management plan. Mr. Siemering stated to Mr. Ford that the LTRF's permit, operations plan, or the leachate management plan do not address manning requirements for the LTRF.

As per SCS' telephone conversation with Mr. Ford, we believe that the manning requirements for the LTRF could be modified as proposed by AO if the Hillsborough County Solid Waste Management Department (HCSWMD) so chooses. Once again, SCS recommends that the HCSWMD advise their Contracts and Legal Departments of the proposed modification and request their input. In addition, SCS recommends that the HCSWMD proceed with the non-renewal (re-bid) process in the event that it is decided by the County to reject AO's proposal.

Please call if you have any questions or require additional information.

Very truly yours,



Richard A. Siemering
Senior Project Engineer
SCS ENGINEERS

RAS/RBG:ras

cc: Mr. Kim Ford, P.E., FDEP

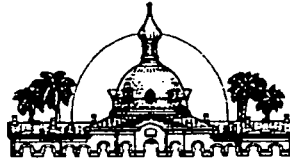


Robert B. Gardner, P.E.
Vice President
SCS ENGINEERS

HILLSBOROUGH COUNTY

FLORIDA

Office of the County Administrator
Daniel A. Kleman



BOARD OF COUNTY COMMISSIONERS

Dottie Berger
Joe Chillura
Chris Hart
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Thomas Scott
Ed Turanchik

RECEIVED
OCT 27 1998

Department of Environmental Protection
SOUTHWEST DISTRICT

BY

Deputy County Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunzeker
Jimmie Keel

October 26, 1998

Mr. Steven G. Morgan
Section Supervisor
Solid Waste Compliance/Enforcement
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Southeast County Landfill - Berm Incident Report


Dear Mr. Morgan:

On Monday, October 12, 1998, the Hillsborough County Solid Waste Management Department (SWMD) contacted the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission (EPC), by telephone answering machine, to report that a section of the working face berm at the Southeast County Landfill (SCLF) had washed out due a 6 inch rain event received at the site that evening.

Attached is correspondence from the SCLF contractor, Waste Management Inc. of Florida (WMI), outlining the incident and describing the corrective action performed by WMI to correct the situation.

Please contact me at 276-2908 should you have any questions or require additional information concerning this correspondence.

Sincerely,



Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

Attachment

xc: Matt Matthews, SWMD
Ron Cope, EPC
Larry Ruiz, SCS
Kim Ford, DEP



Waste ManagementSM

Southeast Recycling and Disposal Facility
P.O. Box 627 Balm, FL 33503
15960 C.R. 672 E. Lithia, FL 33547

Phone 813.634.9203

October 13, 1998

Mr. Matt Matthews
Hillsborough County Department of Solid Waste
P.O. Box 1110
Tampa, FL 33601

RE: Southeast County Landfill – Incident Report

Dear Mr. Matthews:

I am writing this letter to report an incident that occurred on October 12 at Southeast County Landfill resulting in potential stormwater contact with initial cover.

Incident Description (October 12)

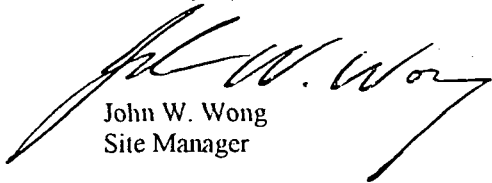
A bottom berm breach in the active disposal area, Phase II – Cell I, was discovered by Waste Management's security guard at approximately 10:00 PM. The berm breach was approximately two to four feet wide. Note: The rain fall recorded on site was 6.0 inches for the evening.

Corrective Action: Two Waste Management employees reported to the facility to repair the berm at 11:30 PM. On October 13, 1998 at 8:00 AM, conductivity testing was conducted at the following locations:

Basin D:	96 us/cm
Gabion No. 4:	388 us/cm
Drainage ditch to Gabion No. 4:	551 us/cm

Based on the monitoring results, it is my determination that there is no impact to the environment from the above described incident. If you have any questions, please contact me.

Sincerely,



John W. Wong
Site Manager

SCS ENGINEERSNovember 2, 1998
File No. 0995029.14Mr. Kim B. Ford, P.E.
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619Subject: Operation Permit Modification Application
To Include Phases V and VI
Southeast County Landfill, Hillsborough County, Florida

D.E.P.

NOV - 2 1998

RECEIVED
SOUTHWEST DISTRICTDepartment of Environmental Protection
SOUTHWEST DISTRICT
BY _____



Dear Kim:

On behalf of the Hillsborough County Solid Waste Management Department (HCSWMD), SCS Engineers (SCS) is pleased to submit three copies of the application for operation permit modification to include the operation of Phases V and VI of the Southeast County Landfill (SCLF) and the revised Leachate Management Plan. Also enclosed find the \$250 permit review fee. SCS has prepared the revised LMP to address the existing permit conditions, and changes in operations, monitoring, and reporting that will occur when Permanent Pump Station B becomes operational and landfiling begins in Phases V and VI. The revised LMP is intended to supersede the 1995 LMP and the 1996 update.

Your prompt review of this application is requested. The HCSWMD is anticipating to begin landfiling in Phases V and VI sometime in January 1999. The HCSWMD and SCS are ready to meet with you to promptly resolve any questions or provide additional information.

Please do not hesitate to call if you have any questions.

Very truly yours,


Larry E. Ruiz
Project Manager
Robert B. Gardner, P.E.
Vice President
SCS ENGINEERS
LER/RBG:er
attachmentscc: Patricia V. Berry, HCSWMD
Paul Schipfer, EPC

BOARD OF COUNTY COMMISSIONERS

HILLSBOROUGH COUNTY, FLORIDA
P. O. Box 1110
Tampa, FL 33601

NationsBank

NationsBank 634-630
NationsBank, N. A.
Jacksonville, FL
Member FDIC

Warrant Number

Date

01725575

10/27/1998

Net Amount

\$ *****250.00

PAY ***Two Hundred Fifty and 00/100 Dollars***

TO THE
ORDER OF

FL DEPT ENVIRONMENTAL PROTECTION
DBA FL DEPT ENVIRONMENTAL PR
3804 COCONUT PALM DR
TAMPA FL 33619



Authorized In Open Session

Thomas Scott CHAIRMAN
Richard Ahe CLERK

SIGNATURE HAS A COLORED BACKGROUND • BORDER CONTAINS MICROPRINTING

⑈0001725575⑈ ⑆063000047⑆

2710020148⑈

Vendor Number: 596007353 01 HILLSBOROUGH COUNTY, FLORIDA Check Date: 10/27/1998 Check Number: 01725575

Document Number	Document Reference Number	Description	Net Amount
VFSW99005156 01		*10 21 98 PERMIT FEE*SO COUNTY LANDFILL	250.00
SW 11/2			
Total >>>			*****250.00

Application for Operation Permit Modification Southeast County Landfill Hillsborough County, Florida



Prepared for:

Hillsborough County
Solid Waste Management Department
P.O. Box 1110
Tampa, Florida 33601
(813) 276-5680

Prepared by:

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

File No. 0995029.24
November 2, 1998

D.E.P.

NOV - 2 1998

**SOUTHWEST DISTRICT
TAMPA**



DEP Form # 62-701.900(1)
Form Title <u>Solid Waste Management Facility Permit</u>
Effective Date <u>May 19, 1994</u>
DEP Application No. _____ (Filed by DEP)

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

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

SOLID WASTE MANAGEMENT FACILITY PERMIT
APPLICATION INSTRUCTIONS AND FORMS

D.E.P.
SOUTHWEST DISTRICT
TAMPA

D.E.P.
NOV - 2 1998
SOUTHWEST DISTRICT
TAMPA

INSTRUCTIONS TO APPLY FOR A SOLID WASTE MANAGEMENT PERMIT

I. GENERAL

Solid Waste Management Facilities shall be permitted pursuant to Section 403.707, Florida Statutes, (FS) and in accordance with Florida Administrative Code (FAC) Chapter 62-701. A minimum of six copies of the application shall be submitted to the Department District Office having jurisdiction over the facility. The appropriate fee in accordance with Chapter 62-4, FAC, and Rule 62-701.320(5) (c), FAC, shall be submitted with the application by check made payable to the Department of Environmental Protection (DEP).

Complete appropriate sections for the type of facility for which application is made. Entries shall be typed or printed in ink. All blanks shall be filled in or marked "not applicable" or "no substantial change". Information provided in support of the application shall be marked "submitted" and the location of this information in the application package indicated. The application shall include all information, drawings, and reports necessary to evaluate the facility. Information required to complete the application is listed on the attached pages of this form.

II. Application Parts Required for Construction and Operation Permits

- A. Landfills and Ash Monofills - Submit parts A, B, D through R, and T
- B. Asbestos Monofills - Submit parts A, B, D, E, F, I, K, M through Q, and T
- C. Industrial Solid Waste Facilities - Submit parts A, B, D through Q, and T
- D. Volume Reduction Facilities - Submit parts A, C, D, S, and T
- E. Materials Recovery Facilities - Submit parts A, C, D, S, and T

NOTE: Portions of some parts may not be applicable.

NOTE: For facilities that have been satisfactorily constructed in accordance with their construction permit, the information required for A, B, C, D and E type facilities does not have to be resubmitted for an operation permit if the information has not substantially changed during the construction period. The appropriate portion of the form should be marked "no substantial change".

III. Application Parts Required for Closure Permits

- A. Landfills and Ash Monofills - Submit parts A, B, N through R, and T
- B. Asbestos Monofills - Submit parts A, B, M through Q, and T
- C. Industrial Solid Waste Facilities - Submit parts A, B, N through Q, and T
- D. Volume Reduction Facilities - Submit parts A, C, S, and T
- E. Materials Recovery Facilities - Submit parts A, C, S, and T

NOTE: Portions of some parts may not be applicable.

IV. Permit Renewals

The above information shall be submitted at time of permit renewal in support of the new permit. However, 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. Portions of the application not re-submitted shall be marked "no substantial change" on the application form.

V. Application Codes

S	-	Submitted
LOCATION	-	Physical location of information in application
N/A	-	Not Applicable
N/C	-	No Substantial Change

VI. LISTING OF APPLICATION PARTS

PART A - GENERAL INFORMATION

PART B - DISPOSAL FACILITY GENERAL INFORMATION

PART T - CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

APPLICATION FOR PERMIT TO CONSTRUCT, OPERATE, MODIFY OR CLOSE
A SOLID WASTE MANAGEMENT FACILITY

Please Type or Print

A. GENERAL INFORMATION

1. Type of facility:

Disposal ☒

Class I Landfill ☒
Class II Landfill ☐
Class III Landfill ☐
Other ☐

Ash Monofill ☐
Asbestos Monofill ☐
Industrial Solid Waste ☐

Volume Reduction ☐

Incinerator ☐
Composting ☐
Materials Recovery ☐
Other ☐

Pulverizer/Shredder ☐
Compactor/Baling Plant ☐
Energy Recovery ☐

2. Type of application:

Construction ☐
Operation ☒

Construction/Operation ☐
Closure ☐

3. Classification of application:

New ☐
Renewal ☐

Substantial Modification ☐
Minor Modification ☐

☒ To include Phases V and VI

4. Facility name: Southeast County Landfill

5. DER ID number: SO29-256427

County: Hillsborough

6. Facility location (main entrance): 8.8 miles east of U.S. 301 on County Road 672

7. Location coordinates:

Section: 13,14,15,18,19,22,23,24 Township: 31 & 32 S Range: 21 E

UTMs: Zone N/A km E N/A km N

Latitude: 27 ° 46 ' 25 " Longitude: 82 ° 11 ' 15 "

8. Applicant name (operating authority): Hillsborough County Department of Solid Waste

Mailing address: P.O. Box 1110 Tampa FL 33601

Street or P.O. Box City State Zip

Contact person: Daryl H. Smith Telephone: (813) 272-5680

Title: Director, Solid Waste Management Department

9. Authorized agent/Consultant: SCS Engineers
- Mailing address: 3012 U.S. Highway 301 North, Suite 700 Tampa Florida 33619
Street or P.O. Box City State Zip
- Contact person: Mr. Robert B. Gardner Telephone: (813) 621-0080
- Title: Vice President
10. Landowner (if different than applicant): Same
- Mailing address: _____
Street or P.O. Box City State Zip
- Contact person: _____ Telephone: ()
11. Cities, towns and areas to be served: Tampa, Temple Terrace, Plant City, Hillsborough County
12. Population to be served:
Current: 573,013 Five-Year Projection: 634,884 (see SCS 1996 Exhibit 2-5)
13. Volume of solid waste to be received: 2,200 ~~yds³/day~~ tons/day ~~gallons/day~~
14. Date site will be ready to be inspected for completion: Existing landfill
15. Estimated life of facility: 29 years
16. Estimated costs:
Total Construction: \$ Existing landfill (N/A) Closing Costs: \$ 13,600,000
17. Anticipated construction starting and completion dates:
From: Existing landfill To: Existing landfill

B. DISPOSAL FACILITY GENERAL INFORMATION

1. Provide brief description of disposal facility design and operations planned by this application:

See attached report

2. Facility site supervisor: Meredith Matthews

Title: Senior Engineering Technician, HCDSW

Telephone: (813) 671-7707

3. Disposal area: Total 162.2(±) acres; Used 120.4(±) acres; Available 162.2(±) acres

4. Weighing scales used: Yes ☒ No ☐

5. Security to prevent unauthorized use: Yes ☒ No ☐

6. Charge for waste received: _____ \$/yds³ _____ \$/ton (See SCS 1996 Exhibit 8-3) 7. Surrounding land use, zoning:

Residential ☐
Agricultural ☒
Commercial ☐

Industrial ☐
None ☐
Other ☐

8. Types of waste received:

Residential ☒
Commercial ☒
Incinerator/WTE ash ☒
Treated biohazardous ☐
Water treatment sludge ☒
Air treatment sludge ☒
Agricultural ☒
Asbestos ☒
Other ☐

C & D debris ☒
Shredded/cut tires ☒
Yard trash ☐
Septic tank ☐
Industrial ☒
Industrial sludge ☒
Domestic sludge ☐

9. Salvaging permitted: Yes ☐ No ☒

10. Attendant: Yes ☒ No ☐ Trained operator: Yes ☒ No ☐

11. Spotters: Yes ☒ No ☐ Number of spotters used: 1 minimum

12. Site located in: Floodplain ☐ Wetlands ☐ Other ☒ upland, closed phosphate mine site

13. Property recorded as a Disposal Site in County Land Records: Yes ☐ No ☒

14. Days of operation: 6/week

15. Hours of operation: 7:30 a.m. to 5:30 p.m., Monday - Saturday

16. Days Working Face covered: 6/week

17. Elevation of water table: varies - see SCS 1996 Section 6, Figures 6-1 to 6-4 Ft. NGVD

18. Number of monitoring wells: 11

19. Number of surface monitoring points: 9

20. Gas controls used: Yes ☐ No ☒ Type controls: Active ☐ Passive ☒
 Gas flaring: Yes ☐ No ☒ Gas recovery: Yes ☐ No ☒

21. Leachate control method - liner type:

Natural soils	<input type="checkbox"/>	Double geomembrane	<input type="checkbox"/>
Single clay liner	<input type="checkbox"/>	Geomembrane & composite	<input type="checkbox"/>
Single geomembrane	<input type="checkbox"/>	Double composite	<input type="checkbox"/>
Single composite	<input type="checkbox"/>	None	<input type="checkbox"/>
Slurry wall	<input type="checkbox"/>		
Other	<input checked="" type="checkbox"/>	<u>4 ft to 18 ft Thick Phosphatic Clay</u>	

22. Leachate collection method:

Collection pipes	<input checked="" type="checkbox"/>	Sand layer	<input checked="" type="checkbox"/>
Geonets	<input type="checkbox"/>	Gravel layer	<input type="checkbox"/>
Well points	<input type="checkbox"/>	Interceptor trench	<input type="checkbox"/>
Perimeter ditch	<input type="checkbox"/>	None	<input type="checkbox"/>
Other	<input checked="" type="checkbox"/>	<u>Pump Station</u>	

23. Leachate storage method:

Tanks	<input checked="" type="checkbox"/>	Surface impoundments	<input type="checkbox"/>
Other	<input type="checkbox"/>		

24. Leachate treatment method:

Oxidation	<input type="checkbox"/>	Chemical treatment	<input type="checkbox"/>
Secondary	<input type="checkbox"/>	Settling	<input type="checkbox"/>
Advanced	<input type="checkbox"/>	None	<input type="checkbox"/>
Other	<input checked="" type="checkbox"/>	<u>Powder Activated Carbon Treatment On-site</u>	

25. Leachate disposal method:

Recirculated	<input checked="" type="checkbox"/>	Pumped to WWTP	<input checked="" type="checkbox"/>
Transported to WWTP	<input checked="" type="checkbox"/>	Discharged to surface water	<input type="checkbox"/>
Injection well	<input type="checkbox"/>	Evaporation (ie: Perc Pond)	<input type="checkbox"/>
Other	<input checked="" type="checkbox"/>	<u>Spray Irrigation</u>	

26. For leachate discharged to surface waters:
 Name and Class of receiving water: N/A

27. Storm Water:

Collected: Yes ☒ No ☐ Type of treatment: Detention/Filtration

Name and Class of receiving water: Long Flat Creek, Class III

28. Management and Storage of Surface Waters (MSSW) Permit number or status: Southwest Florida Water Management District Permit No. 100330, National Pollution Discharge Elimination System Permit No. FLR00B200

T. CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

A. Applicant

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

Daryl H. Smith
Signature of Applicant or Agent

Daryl H. Smith, Director
Name and Title

Date: 10/30/98

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

B. Professional Engineer Registered in Florida or Public Officer as required in Section 403.707 and 403.707(5), Florida Statutes.

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


Signature

Robert B. Gardner
Name and Title (please type)

39233
Florida Registration Number
(please affix seal)

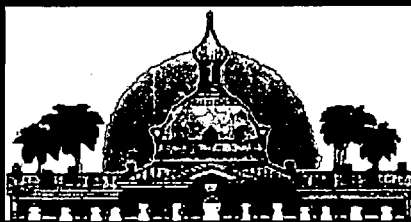
SCS Engineers, 3012 U.S. Highway 301 North, Suite 700
Mailing Address

Tampa, Florida 33619
City, State, Zip Code

(813) 621-0080
Telephone Number

Date: November 2, 1998

Leachate Management Plan Southeast County Landfill Hillsborough County, Florida



Prepared for:

Hillsborough County
Solid Waste Management Department
P.O. Box 1110
Tampa, Florida 33601
(813) 276-5680

Prepared by:

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

RECEIVED
File No. 0995029.24
November 2, 1998

D.E.P.

NOV - 2 1998

SOUTHWEST DISTRICT
TAMPA

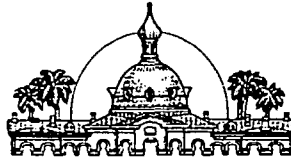
HILLSBOROUGH COUNTY

FLORIDA

Office of the County Administrator
Daniel A. Kleman

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Deputy County Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunzeker
Jimmie Keel

October 1, 1998

Mr. Steven G. Morgan
Section Supervisor
Solid Waste Compliance/Enforcement
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Southeast County Landfill - Berm Incident Report

Dear Mr. Morgan:

On Saturday, September 19, 1998, the Hillsborough County Solid Waste Management Department (SWMD) contacted the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission (EPC), by telephone answering machine, to report that a section of the working face berm at the Southeast County Landfill (SCLF) had washed out due to heavy rains received at the site.

Attached is correspondence from the SCLF contractor, Waste Management Inc. of Florida (WMI), outlining the incident and describing the corrective action performed by WMI to correct the situation.

Please contact me at 276-2908 should you have any questions or require additional information concerning this correspondence.

Sincerely,

Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

Attachment

xc: Matt Matthews, SWMD
Ron Cope, EPC
Larry Ruiz, SCS
Kim Ford, DEP

D.E.P.

OCT - 7 1998

SOUTHWEST DISTRICT
TAMPA D.E.P.

OCT - 7 1998



Waste ManagementSM

Southeast Recycling and Disposal Facility
P.O. Box 627 Balm, FL 33503
15960 C.R. 672 E. Lithia, FL 33547

Phone 813.634.9203



September 21, 1998

Mr. Matt Matthews
Hillsborough County Department of Solid Waste
P.O. Box 1110
Tampa, FL 33601

RE: Southeast County Landfill – Incident Report

Dear Mr. Matthews:

I am writing this letter to report an incident that occurred between September 19 through September 20 at Southeast County Landfill resulting in potential stormwater contact with initial cover.

Incident Description (September 19)

A bottom berm breach in the active disposal area was discovered by Waste Management's security guard at approximately 7:30 PM. The berm breach was approximately two to four feet wide. Note: The rain fall recorded on site was 3.5 inches

Corrective Action: Four Waste Management employees reported to the facility to repair the berm and grading at the top of slope. It was my decision to stop work at approximately 10:00 PM due to health & safety reasons and return to the site on the following Sunday morning to continue work if necessary.

Incident Description (September 20)

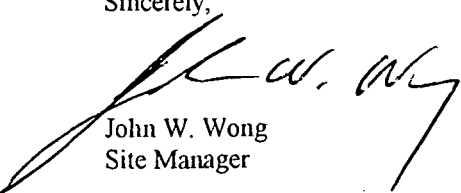
At 10:00 AM, it was discovered that the same section of the bottom berm failed and there was erosion on the side slopes at eastern side of Phase II closed area. Note: The rain fall recorded on site was 2.2 inches

Corrective Action: Approximately two 20 cubic yard loads of soil was brought to the active area and utilized to repair the side slopes. The bottom berm was repaired and the top was graded once again. Conductivity monitoring was conducted at 1:28 PM at four sampling locations:

Basin D:	216 us/cm
Gabion No. 4:	166 us/cm
Beneath Berm:	106 us/cm
Drainage ditch to Gabion No. 4:	186 us/cm

Based on the monitoring results, it is my determination that there is no impact to the environment from the above described incident. If you have any questions, please contact me.

Sincerely,


John W. Wong
Site Manager

RECEIVED

OCT 07 1998

ED E P



Hillsborough County
Florida

Solid Waste Management Department

Post Office Box 1110, Tampa, Florida 33601
(813) 272-5680

Landfill Services Section

DATE: 9/14/98
TO: Kim Fnd
FAX: 744-6125
FROM: Patty Biny
FAX: 276-2960
SUBJECT: _____
COMMENTS: Hnd copy will follow

TOTAL PAGES SENT: 3
(Including cover sheet)

HILLSBOROUGH COUNTY

FLORIDA

Office of the County Administrator
Daniel A. Kleman

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Patricia Benn

Assistant County Administrators
Edwin Hanzaker
Jimmie Keel



September 14, 1998

Mr. Steven G. Morgan
Section Supervisor
Solid Waste Compliance/Enforcement
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Southeast County Landfill - Leachate Force Main Incident

Dear Mr. Morgan:

On Friday, September 11, 1998, the Hillsborough County Solid Waste Management Department (SWMD) notified the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission (EPC) that a contractor at the Southeast County Landfill had damaged a section of the six inch diameter leachate force main during construction of the tire chip leachate trenches.

Attached is correspondence from Waste Management Inc. of Florida's (WMI) quality control firm, Globex, outlining the incident and describing the action that WMI's subcontractor, ERC, has undertaken to correct the situation.

As of this date, all corrective action has been completed and approved by the SWMD. Please contact me at 276-2908 should you have any questions or require additional information concerning this correspondence.

Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry", is written over the typed name.

Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

Attachments

xc: Matt Matthews, SWMD
Ron Cope, EPC
Larry Ruiz, SCS
Kim Ford, DEP

MEMORANDUM

TO: John Wong, Waste Management
COPY: Matt Matthews, HCSWMD
Jerry Pinder, ERC
FROM: Ali Khatami, Globex
DATE: 11 September 1998
SUBJECT: Incident Report

At approximately 7:00 p.m. on 10 September 1998, a 6-in. diameter leachate force main crossing Trench 18 was damaged during excavation of Trench 18. The location of the damage is approximately 15 ft west of the excavated area for Trench 18.

The pump was immediately shut off by Mr. Matthews. The area around the pipe was immediately bermed off to control water reaching the surface. Approximately 150 gallons of water exited the pipe and contained within the bermed area.

ERC has scheduled for a repair crew arriving on site this morning to repair the pipe. The repair is expected to be completed within a few hours since the extent of the damage is limited to two small holes on the upper surface of the pipe.

Following completion of the repair, the soil in the vicinity of the damaged pipe will be excavated and transported to the landfill active face. The completion of the above described work will be reported in my daily report.

* * *



Lawton Chiles
Governor

Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

Mr. Daryl Smith, Director
Hillsborough County Solid Waste
PO Box 1110
Tampa, Fl. 33601

September 3, 1998

RE: Southeast Class I Landfill, Permit No.: SO29-256427, Hillsborough County
Northwest Class III Landfill, Permit No.: SF29-251576, Hillsborough County
Financial Assurance Cost Estimates

Dear Mr. Smith:

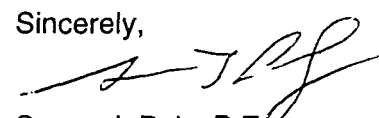
This letter is to acknowledge receipt of the inflation-adjusted cost estimates dated August 12, 1998 (received August 17, 1998), prepared by SCS Engineers, Inc. for closing and long-term care of the Hillsborough County Southeast Class I Landfill and long-term care of the Hillsborough County Northwest Class III Landfill. The following cost estimates (as received August 17, 1998) are **APPROVED for 1998:**

	<u>Closing</u>	<u>Long-Term Care</u>
Southeast Class I Landfill:	\$13,904,000	\$1,568,000/year \$47,040,000 total LTC
Northwest Class III Landfill:	N/A	\$72,000/year \$1,008,000 total LTC (14 years remaining)

The next annual update (revised or inflation-adjusted estimates) is due no later than September 1, 1999.

A copy of these estimates will be forwarded to Mr. Fred Wick, Solid Waste Section, FDEP, 2600 Blair Stone Road, Tallahassee, Florida 32399-2407. Please work with him directly to assess the facility's compliance with the funding mechanism requirements of Rule 62-701.630, F.A.C. If you have any questions, you may contact me at (813) 744-6100 ext. 386.

Sincerely,


Susan J. Pelz, P.E.
Solid Waste Section
Southwest District

sjp
cc:

Patricia Berry, HCDSW, P.O. Box 1110, Tampa, Fl. 33601
Robert Gardner, P.E., SCS Engineers, 3012 US Hwy 301 North, Suite 700, Tampa, Fl. 33619
Paul Schipfer, HCEPC
Fred Wick, FDEP, Tallahassee, w/attachment
Robert Butera, P.E., FDEP Tampa
Kim Ford, P.E., FDEP Tampa

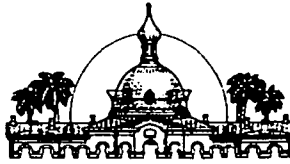
HILLSBOROUGH COUNTY

FLORIDA

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Jimmie Keel

July 30, 1998

Mr. David W. Pickard
City of Tampa Sanitary Sewer Dept.
2700 Maritime Blvd.
Tampa, Florida 33605

Dear Mr. Pickard:

The Hillsborough County Solid Waste Management Department (SWMD) has received and reviewed the **Countywide Solid Waste Profile Form** and supporting documentation for the **City of Tampa Sanitary Sewer Dept.** The SWMD **approves** the solid waste for disposal at the **Southeast County Landfill**.

Application No. SWMD 06817 Type Waste: Process Grit Residue

Disposition: APPROVED Expiration Date: 7-31-2000

This approval is subject to the following conditions:

NO SOIL WILL KNOWINGLY BE ACCEPTED. THE GENERATOR MUST ENSURE THAT DRYING TIME IS ALLOWED AND NO FREE LIQUIDS ARE PRESENT IN THE WASTE STREAM. THE GENERATOR MUST NOTIFY THE SWMD OF ANY CHANGES THAT MAY OCCUR IN YOUR WASTE GENERATION PROCESS. THE GENERATOR MUST PRESENT INDEMNIFICATION FORM AT THE DISPOSAL SITE. THIS WASTE STREAM APPROVAL DOES NOT INCLUDE "JET VAC DEBRIS".

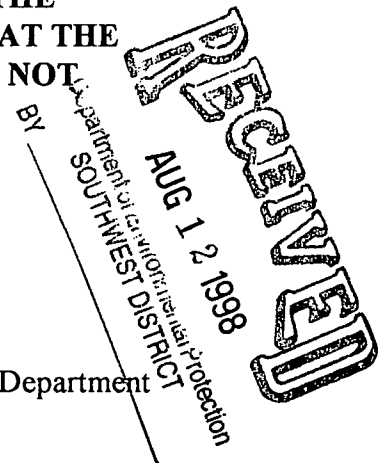
Should you have any questions, please contact Ernie Mayes at 276-2930.

Sincerely,

Daryl Smith, Director
Solid Waste Management Department

DHS/em

xc: Matt Matthews, Senior Eng. Tech., SWMD
Beth Knauss, Department of Environmental Protection
Terry Payton, Environmental Protection Commission (CESQG)
Don Goodson, WMX, Inc., Southeast County Landfill



SE 41.715
Sub permit file
F-15
Burt

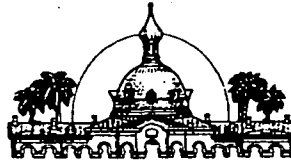
HILLSBOROUGH COUNTY

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Deputy County Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunzeker
Jimmie Keel

MEMORANDUM

DATE: July 23, 1998

TO: Waste Profile Committee

FROM: Ernie Mayes, Environmental Specialist

SUBJECT: Site Visit To City of Tampa's Howard F. Curren Advanced Wastewater Treatment Plant

On July 23, 1998 I met with representatives from the City of Tampa's Howard F. Curren Advanced Wastewater Treatment Plant. I was greeted by Mr. John Drapp and his assistant who escorted me on a tour of the entire facility. I observed the generation process of "grit residue" and "jet vac debris".

To produce the "grit residue" the process begins with a series of elaborate wastewater treatment screening and cleaning operations which ultimately produces a black mud-like material (when wet) which is then placed in a drying bed area where it is allowed several days drying time. It is then placed in the City's Solid Waste 20yd containers and transported to the Southeast County Landfill. The material is kind of fluffy (after drying) but is still mainly composed of dirt.

Mr. Drapp took me to another drying-bed area where "jet vac debris" was stored for transport to the landfill. This material does not go through the Plant treatment process. It is simply vacuumed from the sewer and brought directly to the Plant where it is dumped from the jet vac truck onto the drying pad and allowed drying time before disposal. I saw about 90 - 99% dirt. After drying, the material is delivered to the landfill. I'm recommending there be a Committee meeting set up as soon as possible to discuss whether to continue accepting this material from the City of Tampa as well as the County based on these findings. Between myself and Matt Matthews, we've temporarily suspended acceptance of this waste stream as of 7/24/98.

Please see photos. Should there be any questions please contact me.

EM/

cc: Waste Profile Committee
Post Office Box 1110 • Tampa, Florida 33601
An Affirmative Action/Equal Opportunity Employer



CITY OF TAMPA

Department of Sanitary Sewers

Howard F. Curren
Advanced Wastewater Treatment Plant

July 15, 1997

Hillsborough County Solid Waste Management Dept.
ATTN: Management and Environmental Services Section
P. O. Box 1110
Tampa, FL 33601-1110

RE: Disposal of Wastewater Process Grit Residue Into the Southeast Landfill

Please find attached a completed COUNTYWIDE SOLID WASTE PROFILE FORM for the disposal of process grit residues from the City of Tampa's Howard F. Curren Advanced Wastewater Treatment Plant into the Southeast County Landfill. The present Permit No. 331128 expires on July 31, 1998.

The residues are generated from the preliminary treatment at the Howard F. Curren Advanced Wastewater Treatment Plant and from sewer cleaning of the wastewater collection system of the City of Tampa. All wastes are dried and stored at the treatment plant to remove all free liquids before being transported to the landfill. The residues have been disposed in the S. E. Landfill for the last year and no changes in the characterization of the wastes have occurred. If there are any questions concerning the generation or handling of the wastes, an invitation is made to the Solid Waste Department to visit the treatment plant to review the processes.

Thank you for your assistance in handling this request. If you have any questions or need any additional information, please call John Drapp at 247-3451

Sincerely,

David W. Pickard
Plant Administrator

w/Attachments

xc: John Drapp, Operations Manager
Dan VanderSchoor, Chief Operator



Hillsborough County Solid Waste Management Department COUNTYWIDE SOLID WASTE PROFILE FORM

SWMD 06817

PLEASE RETURN FORM TO:

Hillsborough County Solid Waste Management Department
P.O. BOX 1110
TAMPA, FL 33601-1110

ATTN: Management and Environmental Services Section

COUNTY USE ONLY	
Approved <input checked="" type="checkbox"/>	Rejected <input type="checkbox"/>
Disposal Facility <u>SELF</u>	
Expiration Date _____	
Special Instructions _____	
Reviewed By <u>Robert Amthor</u>	<u>7/23/98</u>

PART A. GENERAL INFORMATION

- Business Name City of Tampa, Dept. of Sanitary Sewers
- SIC Code 4952
- Type of Business Municipal Wastewater Treatment
- Business Location 2700 Maritime Blvd., Tampa FL 33605
(Street) (City) (State) (Zip Code)
- Directions to Facility W. on Maritime Blvd. from 22nd St. in the Port of Tampa
- Technical Contact Person John E. Drapp 7. Phone 247-3451
- Collector's Name (Hauler) City of Tampa, Solid Waste Dept. 9. Phone/Fax 348-1156
- Generator's Mailing Address 2700 Maritime Blvd., Tampa, FL 33605

PART B. What is the general nature of your waste (Check all that apply):

- ☐ Agricultural/Nursery Retail
- ☐ Automotive Service
- ☐ Dry Cleaning/Laundry Establishments
- ☐ Industrial Process/Manufacturing
- ☐ Medical/Veterinary/Pharmaceutical
- ☐ Photo Film Processing
- ☐ Retail/Office
- ☒ Other Wastewater grit & sewer cleaning debris
(Describe)

PART C. SOLID WASTE CHARACTERIZATION: (Please complete a separate form for each type of waste.)

- Name of Waste Process grit residue
- Current Method of Disposal S.E. County Landfill
- Frequency of Disposal 3 loads per week (estimate - seasonally variable)
- Quantity Generated 2652 tons (Est.) Per Week _____ Month _____ Year X
- Physical State Solid ☒ Liquid _____ Semi-Solid _____ Other (Describe) _____
- Empty Container Types N/A How Many? (Per Week, Month, Year) _____
- Is this a RCRA or D.O.T. hazardous material? (As defined in USEPA 40 CFR Part 260.10) YES ☒ NO
- Are there any Free Liquids present? YES ☒ NO Paint Filter Test

PART D. SAMPLING CRITERIA

Some industrial/commercial wastes require analytical testing data to determine if they are acceptable for disposal in the Solid Waste Management System. The Hillsborough County Solid Waste Management Department (HCSWMD) may require additional information on your waste stream. (Please see instruction sheet.) The HCSWMD reserves the right to require additional analysis of waste prior to, or subsequent to acceptance for disposal.

- Indicate current method used to determine the physical and chemical composition of the waste.

☒ TCLP ☐ OTHER (Describe): _____

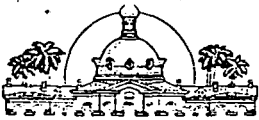
- A copy of current test results are to be submitted with this form. Attached? Yes ☒ No ☐

PART E. GENERATOR CERTIFICATION By signing this form, generator certifies that, unless clearly stated above:

- This waste is not hazardous waste (as defined by the USEPA 40 CFR Part 260.10) Federal Regulation or other State and Local Regulations.
- This waste does not contain any levels of Polychlorinated Biphenols (PCBs).
- This waste does not contain any infectious, biomedical, or biohazardous waste materials.
- This waste does not contain any soil (dirt) material.
- This form contains a true and accurate description of the waste material to be disposed.
- All relevant information regarding known or suspect hazards in possession of the generator has been disclosed.

NOTE: Should any changes occur in the character of the solid waste, the generator shall immediately notify the Hillsborough County Solid Waste Management Department.

- David W. Pickard Signature
- Wastewater Plant Administrator Title
- David W. Pickard Name (Type or Print)
- July 15, 1998 Date



Hillsborough County Solid Waste Management Department COUNTY-WIDE SOLID WASTE PROFILE FORM

SWMD 06817

PLEASE RETURN FORM TO:

Hillsborough County Solid Waste Management Department
P.O. BOX 1110
TAMPA, FL 33601-1110
ATTN: Management and Environmental Services Section

COUNTY USE ONLY	
Approved <input checked="" type="checkbox"/>	Rejected <input type="checkbox"/>
Disposal Facility	<u>SELF</u>
Expiration Date	<u>7/31/2000</u>
Special Instructions	<u>NO Soil Accepted</u>
Reviewed By	<u>[Signature]</u>

PART A. GENERAL INFORMATION

- Business Name City of Tampa, Dept. of Sanitary Sewers
- SIC Code 4952
- Type of Business Municipal Wastewater Treatment
- Business Location 2700 Maritime Blvd., Tampa FL 33605
(Street) (City) (State) (Zip Code)
- Directions to Facility W. on Maritime Blvd. from 22nd St. in the Port of Tampa
- Technical Contact Person John E. Drapp 7. Phone 247-3451
- Collector's Name (Hauler) City of Tampa, Solid Waste Dept. 9. Phone/Fax 348-1156
- Generator's Mailing Address 2700 Maritime Blvd., Tampa, FL 33605

PART B. What is the general nature of your waste (Check all that apply):

- ☐ Agricultural/Nursery Retail
- ☐ Automotive Service
- ☐ Dry Cleaning/Laundry Establishments
- ☐ Industrial Process/Manufacturing
- ☐ Medical/Veterinary/Pharmaceutical
- ☐ Photo Film Processing
- ☐ Retail/Office
- ☒ Other Wastewater grit & sewer cleaning debris
(Describe)

PART C. SOLID WASTE CHARACTERIZATION: (Please complete a separate form for each type of waste.)

- Name of Waste Process grit residue
- Current Method of Disposal S.E. County Landfill
- Frequency of Disposal 3 loads per week (estimate - seasonally variable)
- Quantity Generated 2652 tons (Est.) Per Week _____ Month _____ Year X
- Physical State _____ Solid X Liquid _____ Semi-Solid _____ Other (Describe) _____
- Empty Container Types N/A How Many? (Per Week, Month, Year) _____
- Is this a RCRA or D.O.T. hazardous material? (As defined in USEPA 40 CFR PART 260.10) _____ YES X NO
- Are there any Free Liquids present? _____ YES X NO Paint Filter Test _____

PART D. SAMPLING CRITERIA

Some industrial/commercial wastes require analytical testing data to determine if they are acceptable for disposal in the Solid Waste Management System. The Hillsborough County Solid Waste Management Department (HCSWMD) may require additional information on your waste stream. (Please see instruction sheet.) The HCSWMD reserves the right to require additional analysis of waste prior to, or subsequent to acceptance for disposal.

- Indicate current method used to determine the physical and chemical composition of the waste.

X TCLP _____ OTHER (Describe): _____

- A copy of current test results are to be submitted with this form. Attached? Yes X No _____

PART E. GENERATOR CERTIFICATION By signing this form, generator certifies that, unless clearly stated above:

- This waste is not hazardous waste (as defined by the USEPA 40 CFR Part 260.10) Federal Regulation, State and Local Regulations.
- This waste does not contain any levels of Polychlorinated Biphenols (PCBs).
- This waste does not contain any infectious, biomedical, or biohazardous waste materials.
- This waste does not contain any soil (dirt) material.
- This form contains a true and accurate description of the waste material to be disposed.
- All relevant information regarding known or suspect hazards in possession of the generator has been disclosed.

NOTE: Should any changes occur in the character of the solid waste, the generator shall immediately notify the Hillsborough County Solid Waste Management Department.

7. [Signature] Signature 8. Wastewater Plant Administrator Title

9. David W. Pickard Name (Type or Print) 10. July 15, 1998 Date



Report of Analysis

Page 1 of 1

Client Sample ID: PROCESS GRIT

Lab Sample ID: F787-1

Matrix: SO - Soil

Project: Howard F. Curren - AWTP

Date Sampled: 06/26/97

Date Received: 06/27/97

Percent Solids: n/a

General Chemistry

Analyte	Result	RDL	Units	DF	Analyzed By	Method
Paint Filter Test	<0.50	0.50	ml/100g	1	07/14/97 AAF	SW846 9095

RDL = Reported Detection Limit

**ACCUTEST.****Report of Analysis**

Page 1 of 1

Client Sample ID: PROCESS GRIT

Lab Sample ID: F787-1

Matrix: SO - Soil

Project: Howard F. Curren - AWTP

Date Sampled: 06/26/97

Date Received: 06/27/97

Percent Solids: n/a

Metals Analysis, TCLP Leachate

Analyte	Result	HW#	MCL	RDL	Units	DF	Prep	Analyzed By	Method
Arsenic ^a	<0.0050	D004	5.0	0.0050	mg/l	1	07/07/97	07/07/97 JK	SW846 6010A
Barium	<1.0	D005	100	1.0	mg/l	1	07/07/97	07/07/97 JK	SW846 6010A
Cadmium	<0.0050	D006	1.0	0.0050	mg/l	1	07/07/97	07/07/97 JK	SW846 6010A
Chromium	<0.010	D007	5.0	0.010	mg/l	1	07/07/97	07/07/97 JK	SW846 6010A
Lead ^a	0.020	D008	5.0	0.0030	mg/l	1	07/07/97	07/07/97 JK	SW846 6010A
Mercury	<0.0020	D009	0.20	0.0020	mg/l	1	07/07/97	07/07/97 JK	SW846 7470A
Selenium ^a	<0.0050	D010	1.0	0.0050	mg/l	1	07/07/97	07/07/97 JK	SW846 6010A
Silver	<0.010	D011	5.0	0.010	mg/l	1	07/07/97	07/07/97 JK	SW846 6010A

(a) Lower MDL achieved by GFAA

RDL = Reported Detection Limit
MCL = Maximum Contamination Level

Report of Analysis

Page 1 of 1

Client Sample ID:	F787-1	Date Sampled:	06/26/97
Lab Sample ID:	E23317-1	Date Received:	07/02/97
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8150		
Project:	ALSE - Subcontract		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB02196.D	1	07/09/97	AH	07/08/97	OP2316	OAB786
Run #2							

Herbicide TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RDL	Units	Q
94-75-7	2,4-D	ND	D016	10	0.020	mg/l	
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.0040	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	55%		40-150%
19719-28-9	2,4-DCAA	59%		40-150%

ND = Not detected
MCL = Maximum Contamination Level
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates that analyte is found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: F787-1
 Lab Sample ID: E23317-1
 Matrix: SO - Soil
 Method: SW846 8080
 Project: ALSB - Subcontract

Date Sampled: 06/26/97
 Date Received: 07/02/97
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD19239.D	1	07/08/97	LUN	07/08/97	OP2284	OCD895
Run #2							

Pesticide TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	D013	0.40	0.0010	mg/l	
12789-03-6	Chlordane	ND	D020	0.030	0.0050	mg/l	
72-20-8	Endrin	ND	D012	0.020	0.0010	mg/l	
76-44-8	Heptachlor	ND	D031	0.0080	0.0010	mg/l	
1024-57-3	Heptachlor epoxide	ND	D031	0.0080	0.0010	mg/l	
72-43-5	Methoxychlor	ND	D014	10	0.0050	mg/l	
8001-35-2	Toxaphene	ND	D015	0.50	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	105%		60-150% *
877-09-8	Tetrachloro-m-xylene	120%		60-150% *
2051-24-3	Decachlorobiphenyl	90%		60-150% *
2051-24-3	Decachlorobiphenyl	110%		60-150% *

(a) Advisory QC Limits.

ND = Not detected
 MCL = Maximum Contamination Level
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates that analyte is found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: F787-1
 Lab Sample ID: E23317-1
 Matrix: SO - Soil
 Method: SW846 8270
 Project: ALSE - Subcontract

Date Sampled: 06/26/97
 Date Received: 07/02/97
 Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H12326.D	1	07/08/97	GTT	07/08/97	OP2283	EH430
Run #2							

ABN TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	SDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.017	mg/l	
	3&4-Methylphenol	ND	D024	200	0.024	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.012	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.015	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.010	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.015	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.0095	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.019	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.015	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.011	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.013	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		21-100%
4163-62-2	Phenol-d5	50%		10-94%
118-79-6	2,4,6-Tribromophenol	100%		10-123%
4163-60-0	Nitrobenzene-d5	86%		35-114%
321-60-8	2-Fluorobiphenyl	78%		43-116%
1718-51-0	Terphenyl-d14	102%		33-141%

ND = Not detected
 MCL = Maximum Contamination Level
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates that analyte is found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: F707-1
 Lab Sample ID: E23317-1
 Matrix: SO - Soil
 Method: SW846 8260
 Project: ALSE - Subcontract

Date Sampled: 06/26/97
 Date Received: 07/02/97
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	11790.D	5	07/10/97	JYZ	07/07/97	GP2982	V1534
Run #2							

VOA TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0024	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0020	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.0022	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0024	mg/l	
75-35-4	1,1-Dichloroethylene	ND	D029	0.70	0.0020	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0042	mg/l	
106-46-7	p-Dichlorobenzene	ND	D027	7.5	0.0044	mg/l	
78-93-3	Methyl ethyl ketone	ND	D035	200	0.0050	mg/l	
127-18-4	Tetrachloroethylene	ND	D039	0.70	0.0030	mg/l	
79-01-6	Trichloroethylene	ND	D040	0.50	0.0013	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.0065	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		86-118%
2037-26-5	Toluene-D8	104%		88-110%
460-00-4	4-Bromofluorobenzene	97%		86-115%

ND = Not detected

MCL = Maximum Contamination Level

E = Indicates value exceeds calibration range

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State of Florida

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Interoffice Memorandum

TO: Kim Ford, Solid Waste Section

FROM: Randy Cooper, ERP Surface Water Section *RC 7/28/98*

DATE: July 28, 1998

SUBJECT: Hillsborough County Southeast Landfill - Abandonment of Culvert TS-2

CC: Bob Gardner, SCS Engineers, via fax #623-6757
Reading File

I have reviewed the plan drawing and ICPR model results that SCS Engineers submitted with their request to remove the temporary culvert TS-2 (first submittal was received on May 20, 1998, the second on July 24, 1998). This will direct runoff from the closed Phase II area (basin D-3) to basin D-9 and the ultimate off-site discharge through structure S-19. The structure itself is not being changed or modified, however the diversion of flows from Basin 'C' to Basin 'D' could increase the discharge rate from the landfill and potentially cause flooding problems downstream. Although the landfill does not have any type of stormwater or surface water management permit, SCS was able to present design information from a 1983 report by CDM which shows an allowable peak discharge of 172 cfs. The information submitted by SCS demonstrates that the maximum peak flow for a 24 hour, 25 year storm from Basin 'D' will be less than the allowable rate of 172 cfs.

I agree with SCS that the removal of TS-2 will cause any off-site problems and therefore I have no objection to them proceeding with their request.

I called Karl Schmidt & discussed this with him.

R. Cooper 7/29/98

SCS ENGINEERS

July 23, 1998

File No. 0995029.13

Mr. Kim B. Ford, P.E.
Environmental Resources Permitting
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

Subject: Administrative Change, Abandonment of Culvert TS-2
Southeast County Facility, Hillsborough County, Florida

Dear Mr. Ford:

As requested by Mr. Randal R. Cooper from your office, SCS Engineers (SCS) is pleased to provide additional information regarding the performance of Stormwater Basin D at the Southeast County Landfill (SCLF).

Attachment A presents information from the original permit application for the SCLF (CDM 1983), which indicates that the peak allowed discharge from Basin D is 172 cubic feet per second (cfs). Attachment B presents a calculation by SCS which demonstrates that after Culvert TS-2 is removed, the maximum anticipated flow from Basin D during the 25-year, 24-hour design storm will be 17 cfs.

The calculated flow rate of 17 cfs is below the allowable flow rate of 172 cfs, demonstrating that the abandonment of Culvert TS-2 does not cause Basin D to discharge at a rate exceeding permit conditions.

Please contact us if you should have any comments or questions.

Very truly yours,

Larry E. Ruiz
Larry E. Ruiz
Senior Project Engineer
SCS ENGINEERS

Robert B. Gardner
Robert B. Gardner, P.E.
Vice President
SCS ENGINEERS

LER/RBG:kas

cc: Patricia V. Berry, HCSWMD
Robert Butera, FDEP
Paul Schipfer, Hillsborough County Environmental Protection Commission



ATTACHMENT A
PERMITTED ALLOWABLE MAXIMUM FLOW
(CDM, February 1983)

60.00	671	0.70	0.00
00.00	1865	0.00	0.00
12.00	34	1.1	0.05
15.00	5315	1.32	0.07
180.00	7453	1.47	0.10
210.00	9825	1.60	0.13
240.00	12487	1.08	0.18
270.00	15542	2.28	0.20
300.00	19878	2.64	0.25
330.00	23148	2.93	0.30
360.00	27715	3.31	0.35
390.00	32809	3.86	0.42
420.00	38615	5.63	0.40
450.00	46485	8.57	0.61
480.00	58293	11.15	0.77
510.00	74943	20.05	1.83
540.00	102435	40.53	1.50
570.00	155098	60.53	2.33
600.00	244156	70.86	3.55
630.00	365500	90.31	5.15
660.00	519755	131.48	7.20
690.00	718126	360.48	25.33
720.00	1158958	636.14	68.04
750.00	2015427	562.87	108.37
780.00	2060717	361.55	142.05
810.00	3685088	230.34	149.01
840.00	3880484	186.83	171.17
870.00	3084482	122.85	172.17
900.00	3035571	96.41	168.65
930.00	3822274	70.02	163.84
960.00	3677484	68.82	156.48
990.00	3517880	50.83	140.20
1020.00	3358453	54.22	142.06
1050.00	3184185	50.20	134.93
1080.00	3022535	45.88	128.82
1110.00	2866217	42.48	121.34
1140.00	2715209	48.75	114.04
1170.00	2571784	38.88	108.87
1200.00	2438382	38.42	103.14
1230.00	2307004	34.87	97.69
1260.00	2185782	31.87	92.50
1290.00	2060188	30.48	87.58
1320.00	1958540	29.88	82.91
1350.00	1856285	29.58	78.58
1380.00	1750541	29.43	74.58
1410.00	1671280	28.01	70.84
1440.00	1587884		



DETENTION VOLUME REQUIRED BASED ON
VOLUME-DISCHARGE RELATIONSHIP = 91.5 ACRE-FT

IS THE VOLUME-DISCHARGE RELATIONSHIP WITHIN YOUR LIMITS
1=YES, 2=NO

SOURCE: CDM REPORT, 1983, SELF APPLICATION FOR PERMIT
TO CONSTRUCT & OPERATE A SOLID WASTE RESOURCE
RECOVERY & MANAGEMENT FACILITY.

ATTACHMENT B

AS-BUILT MAXIMUM FLOW CONDITIONS

Basin D Analysis
SCLF, Hillsborough County, Florida

***** LINK CONNECTIVITY --- C:\ICPR2\BASIN_D\RESULTS\BASIND *****

Index Number	Link Name	From Node	To Node	Link Type	U/S Geometry	D/S Geometry
1	S20	S20	BASIND	Pipe	: Circ.	: Circ.
2	S21	S21	BASIND	Pipe	: Circ.	: Circ.
3	S22	S22	S20	Pipe	: Circ.	: Circ.
4	S25	S25	S22	Pipe	: Circ.	: Circ.
5	CHANNEL	DC3	S25	Channel	: Trap.	: Trap.
6	D_WEIR	BASIND	BNDRY	Horizontal WGO	: Trap.	
7	S19	BASIND	BNDRY	Drop Structure	: Circ.	: Circ.
8	PIPES	BASIND	BNDRY	Rating Curve(s)		

Karl Schia
7/23/93

Basin D Analysis
 SCLF, Hillsborough County, Florida

***** Node Maximum Conditions - BASIND *****

□(Time units - hours)

Node Name	Group Name	Max Time Conditions	Max Stage (ft)	Warning Stage (ft)	Max Delta Stage (ft)	Max Surface Area (sf)	Max Time Inflow	Max Inflow (cfs)	Max Time Outflow	Max Outflow (cfs)
BASIND	BASE	19.93	112.75	116.00	0.0217	578587.06	12.28	412.80	11.85	19.61
BNDRY	BASE	50.01	90.25	100.00	0.0004	0.00	11.85	19.61	0.00	0.00
DC3	BASE	12.45	132.88	135.00	0.0426	40031.11	12.00	202.67	11.97	176.48
S20	BASE	12.26	120.18	128.00	0.0497	23821.38	12.20	279.15	12.26	275.40
S21	BASE	12.50	128.37	131.00	0.0390	24871.94	12.25	140.20	12.50	104.07
S22	BASE	12.64	130.22	132.00	0.0500	25519.63	12.19	189.67	12.64	123.88
S25	BASE	12.46	132.86	135.00	0.0499	73518.52	12.00	313.70	12.18	134.56

Handwritten:
 4/23/08
 L. J. Spivey

SCS ENGINEERS

July 15, 1998
File No. 0995029.13

Mr. John Morris, P.G.
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Subject: Groundwater Monitoring Plan Biennial Evaluation
Southeast County Landfill Hillsborough County, Florida

Dear John:

On behalf of the Hillsborough County Solid Waste Management Department, SCS Engineers is pleased to submit the biennial evaluation report regarding the groundwater monitoring program for the Southeast County Landfill, Hillsborough County, Florida, as required by Operation Permit Number SO29-256427, Condition 37.

In summary, we found that there is no indication of groundwater quality impacts due to landfill operations. However, we have recommended construction of an additional Floridan aquifer monitoring well to improve the effectiveness of the monitoring program.

Please give us a call if you have any questions.

Sincerely,



Robert L. Westly, P.G.
Senior Hydrogeologist



Larry E. Ruiz
Senior Project Engineer

RLW/LER:rw
Enclosure

Cc: Kim Ford w/o enclosure
Patty Berry w/o enclosure
Dave Adams

RECEIVED
JUL 15 1998
D E P



STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 6/29/98 Subject DIVERTING WASTE FROM MC BAY WTE
Time 11:30 AM Permit No. _____
County _____
M GREG GROTECLOSS Telephone No. _____
Representing CITY OF TAMPA
☒ Phoned Me ☐ Was Called ☐ Scheduled Meeting ☐ Unscheduled Meeting
Other Individuals Involved in Conversation/Meeting _____

Summary of Conversation/Meeting _____

GREG CALLED TO INFORM DEPARTMENT OF FUTURE PLANS TO DIVERT WASTE FROM MC BAY
TO SOUTHWEST LF DURING RETROFIT. EXPECT TO START DIVERSION OF WASTE MAY/JUNE
1999 WITH APPROX $\frac{1}{2}$ OF ^{THE} CITY'S WASTE (12,500 TONS/MON) BEING DIVERTED TO SOUTHWEST
LANDFILL. PLAN TO DIVERT WASTE FROM AREAS OF CITY WHERE YARD TRASH COLLECTION IS
PROVISIONAL IN ORDER TO MINIMIZE YARD TRASH DISPOSAL AT SOUTHWEST, AT COUNTY'S
REQUEST. GREG SAID COUNTY ^{WAS CONCERNED ABOUT} ~~APPROVED~~ GETTING IN TROUBLE IF
YARD WASTE WAS DISPOSED OF AT SOUTHWEST LF AND WANTED TO TOUCH BASE W/DEP
REGARDING THE ISSUE TO MAKE SURE WE DIDN'T HAVE CONCERNS. TOLD HIM WE
WOULD NOT BE CONCERNED UNLESS LARGE QUANTITIES OF YARD WASTE WERE DISPOSED AT SELF
ON, IF IT APPEARED NO EFFORTS TO SEPARATE YARD WASTE WOULD TAKE PLACE.

(continue on another
sheet, if necessary)

Signature _____

Title _____

PA-01
1/96
pap

Tampa, FL 33619-8318

Department of
Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619-8318

INFORMATION REQUEST

TO: RICHARD TEDDEN
SOLID WASTE MANAGEMENT
TALLAHASSEE

We are pleased to send the enclosed information you requested.

If we can be of further service, please contact:

Kim B. Ford, P.E.
Solid Waste Section
Waste Management Division
3804 Coconut Palm Drive
Tampa, FL 33619-8318
(813) 744-6100, ext. 382

COMMENTS:

I WOULD APPRECIATE
YOUR GUIDANCE ON THIS. THANKS
KIM
6/29/98

FAKED
6/2/98

of pages including cover sheet: 4

Kim Ford

(813) 744-6100 x382

ic: (813) 744-6125

ASAP

☐ Please comment

A
AM CONFUSED...
AT CERTIFIES
ASIN IS WAS
LAST CONTRACTOR

REQUESTED

THX

KIM

KB

FDEP

3804 Coconut Palm Drive, Tampa, FL 33619-8318

FAX

Date:

FAKED
6/2/98

Number of pages including cover sheet:

4

To:

RICHARD TEDDER

SOLID WASTE MAN

Phone:

Fax phone:

CC:

From:

Emilio

Phone:

(813) 744-6100 x382

Fax phone:

(813) 744-6125

REMARKS:

☐ Urgent

☒ For your review

☒ Reply ASAP

☐ Please comment

RICHARD

SEE LETTER ON CQA

PLEASE ADVISE - I AM CONFUSED...

I THOUGHT THE DE THAT CERTIFIES
CONSTRUCTION & RECORD DRAWINGS WAS
TO REPRESENT THE OWNER NOT CONTRACTOR
SEE 62-701.400(8)(b)

YOUR CLARIFICATION REQUESTED

THX

EM

lb

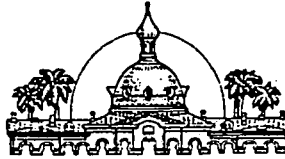
HILLSBOROUGH COUNTY

FLORIDA

Office of the County Administrator
Daniel A. Kleman

BOARD OF COUNTY COMMISSIONERS

Dottie Berger
Joe Chillura
Chris Hart
Jim Norman
Jan Platt
Thomas Scott
Ed Turanchik



Deputy County Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunzeker
Jimmie Keel

RECEIVED

MAY 28 1998

D E P

May 22, 1998

Mr. Kim Ford, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Southeast County Landfill - Certification of Construction Completion

Dear Mr. Ford:

The Solid Waste Management Department is requesting clarification of the wording found in Specific Condition No. 7 of Permit No. 35435-001-SC for the construction of Pump Station B for the Southeast County Landfill (Landfill).

Specific Condition No. 7 outlines the requirements for Certification of Construction Completeness. However, it appears that the terms "professional engineer in charge of construction" and "engineer of record" are used interchangeably. The SWMD's landfill contractor, Waste Management Inc. of Florida (WMI) will be performing the construction and will contract with an independent engineering firm to provide construction quality assurance, to complete the Certification of Construction Completion, to complete Record Drawings, and to provide a narrative of any changes. This firm will, therefore, be responsible for the items referenced in Specific Condition No. 7, parts a, b, and c. However, part d references the engineer of record preparing a report to verify conformance with the requirements of F.A.C. 62-701.400. The SWMD assumes that this is actually the "professional engineer in charge of construction" and that WMI's professional engineer can provide this service as well. Phases II through VI of the Landfill were constructed and certified utilizing this format.

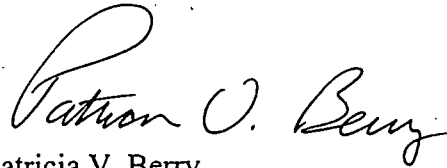
As you are aware, SCS Engineers (SCS) is the design engineer for Pump Station B. SCS will not, however, be providing full-time on-site construction services for Pump Station B. SCS will be providing quality control reviews and periodic inspections for the SWMD and will review WMI and its professional engineer's work. SCS will review the Record Drawings to ensure compliance with the design drawings and specifications.

Mr. Kim Ford
May 22, 1998
Page Two

The SWMD is requesting clarification of our interpretation that the professional engineer in charge of construction (WMI's professional engineer) will be able to prepare and certify the information required in Specific Condition 7.d.

Your assistance with this matter is appreciated.

Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry".

Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

xc: Matt Matthews, SWMD
Larry Ruiz, SCS
Greg Walk, WMI

PERMITTEE: South c County Landfill
Mr. Daryl Smith, Director
Hillsborough County

PL AT NO.: 35435-001-SC

SPECIFIC CONDITIONS:

6. **Laboratory and Field Testing Requirements.** Field and laboratory testing during the construction activities shall be conducted by a qualified testing laboratory, independent of the manufacturer or installer, representing the owner.

7. **Certification of Construction Completeness.** Within sixty (60) days after the specified construction has been completed, the following activities shall be completed:

a. The owner or operator shall submit a Certification of Construction Completion, Form 62-701.900(2), signed and sealed by the professional engineer in charge of construction to the Department and the Environmental Protection Commission of Hillsborough County (EPCHC) for approval, and shall arrange for Department and the EPCHC representatives to inspect the construction in the company of the permittee, the engineer, and the facility operator.

b. The owner or operator shall submit Record Drawings showing all changes (i.e. additions, deletions, revisions to the plans previously approved by the Department including site grades and elevations). The Record Drawings shall include, but not be limited to, details such as the as-built elevations of the sump, leachate collection piping and vault.

c. The owner or operator shall submit a narrative indicating all changes in plans and the cause of the deviations and certification by the design engineer to the Department.

d. The engineer of record shall provide a report to verify conformance with the standards and specifications required by F.A.C. Rule 62-701.400. The report including all testing results for the entire project shall be submitted to the Department along with the completion of construction documents.

8. **Control of Nuisance Conditions.** The operating authority shall be responsible for the control of odors and fugitive particulates arising from the construction. Such control shall minimize the creation of nuisance conditions on adjoining property. Complaints received from the general public, and confirmed by Department personnel or the EPCHC upon site inspection, shall constitute a nuisance condition, and the permittee must take immediate corrective action to abate the nuisance. The owner or operator shall control disease vectors so as to protect the public health and welfare.

FDEP

3804 Coconut Palm Drive, Tampa, FL 33619-8318

FAX

Date:

FAXED
6/2/98

Number of pages including cover sheet:

4

To:

RICHARD TEDDER

SOLID WASTE MGMT

Phone:

Fax phone:

CC:

From:

Emilio

Phone:

(813) 744-6100 x382

Fax phone:

(813) 744-6125

REMARKS:

☐ Urgent

☒ For your review

☒ Reply ASAP

☐ Please comment

RICHARD

SEE LETTER ON CQA

PLEASE ADVISE — I AM CONFUSED ...

← I THOUGHT THE DE THAT CERTIFIES

CONSTRUCTION & RECORD DRAWINGS WAS

TO REPRESENT THE OWNER NOT CONTRACTOR

SEE 62-701.400 (B) (D)

YOUR CLARIFICATION REQUESTED

THX
Emilio

LB

HILLSBOROUGH COUNTY

FLORIDA

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Ed Turanchik



Deputy County Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunzeker
Jimmie Keel

RECEIVED

MAY 28 1998

DEP

May 22, 1998

Mr. Kim Ford, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Southeast County Landfill - Certification of Construction Completion

Dear Mr. Ford:

The Solid Waste Management Department is requesting clarification of the wording found in Specific Condition No. 7 of Permit No. 35435-001-SC for the construction of Pump Station B for the Southeast County Landfill (Landfill).

Specific Condition No. 7 outlines the requirements for Certification of Construction Completeness. However, it appears that the terms "professional engineer in charge of construction" and "engineer of record" are used interchangeably. The SWMD's landfill contractor, Waste Management Inc. of Florida (WMI) will be performing the construction and will contract with an independent engineering firm to provide construction quality assurance, to complete the Certification of Construction Completion, to complete Record Drawings, and to provide a narrative of any changes. This firm will, therefore, be responsible for the items referenced in Specific Condition No. 7, parts a, b, and c. However, part d references the engineer of record preparing a report to verify conformance with the requirements of F.A.C. 62-701.400. The SWMD assumes that this is actually the "professional engineer in charge of construction" and that WMI's professional engineer can provide this service as well. Phases II through VI of the Landfill were constructed and certified utilizing this format.

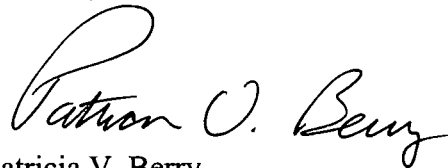
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Mr. Kim Ford
May 22, 1998
Page Two

The SWMD is requesting clarification of our interpretation that the professional engineer in charge of construction (WMI's professional engineer) will be able to prepare and certify the information required in Specific Condition 7.d.

Your assistance with this matter is appreciated.

Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry".

Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

xc: Matt Matthews, SWMD
Larry Ruiz, SCS
Greg Walk, WMI

PERMITTEE: Southeast County Landfill
Mr. Daryl Smith, Director
Hillsborough County

PERMIT NO.: 35435-001-SC

SPECIFIC CONDITIONS:

6. **Laboratory and Field Testing Requirements.** Field and laboratory testing during the construction activities shall be conducted by a qualified testing laboratory, independent of the manufacturer or installer, representing the owner.

7. **Certification of Construction Completeness.** Within sixty (60) days after the specified construction has been completed, the following activities shall be completed:

a. The owner or operator shall submit a Certification of Construction Completion, Form 62-701.900(2), signed and sealed by the professional engineer in charge of construction to the Department and the Environmental Protection Commission of Hillsborough County (EPCHC) for approval, and shall arrange for Department and the EPCHC representatives to inspect the construction in the company of the permittee, the engineer, and the facility operator.

b. The owner or operator shall submit Record Drawings showing all changes (i.e. additions, deletions, revisions to the plans previously approved by the Department including site grades and elevations). The Record Drawings shall include, but not be limited to, details such as the as-built elevations of the sump, leachate collection piping and vault.

c. The owner or operator shall submit a narrative indicating all changes in plans and the cause of the deviations and certification by the design engineer to the Department.

d. The engineer of record shall provide a report to verify conformance with the standards and specifications required by F.A.C. Rule 62-701.400. The report including all testing results for the entire project shall be submitted to the Department along with the completion of construction documents.

8. **Control of Nuisance Conditions.** The operating authority shall be responsible for the control of odors and fugitive particulates arising from the construction. Such control shall minimize the creation of nuisance conditions on adjoining property. Complaints received from the general public, and confirmed by Department personnel or the EPCHC upon site inspection, shall constitute a nuisance condition, and the permittee must take immediate corrective action to abate the nuisance. The owner or operator shall control disease vectors so as to protect the public health and welfare.

Transmit Confirmation Report

No. : 005
Receiver : SOLID-WST-TA
Transmitter : WASTE MGT TAMPA SWDIST
Date : Jun 03 98 9:48
Time : 02'04
Mode : Norm
Pages : 04
Result : OK



Hillsborough County
Florida

Solid Waste Management Department

Post Office Box 1110, Tampa, Florida 33601
(813) 272-5680

Serving our customers with:
Residential and Commercial Collection Services-Outside Recycling-Resource Recovery
Household Chemical Collection-Adopt-A-Road and Adopt-A-Shore
Environmental Enforcement-Yard and Wood Waste Processing-Landfills Services
Community Collection Centers-Environmental Testing

DATE:

5/26/98

TO:

Kim Ford

FAX:

744-6125

FROM:

Patricia Bury

FAX:

(813) 276-2960

SUBJECT:

COMMENTS:

Hand will follow

TOTAL PAGES SENT: 3

(Including cover sheet)

HILLSBOROUGH COUNTY

FLORIDA

Office of the County Administrator
Daniel A. Kleman

BOARD OF COUNTY COMMISSIONERS

Dottie Berger
Joe Chillum
Chris Hart
Jim Norman
Jan Platt
Thomas Scott
Ed Turchick



Deputy County Administrator
Patricia Bears

Assistant County Administrators
Edwin Hunzeker
Ruskie Keel

May 22, 1998

Mr. Kim Ford, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Southeast County Landfill - Certification of Construction Completion

Dear Mr. Ford:

The Solid Waste Management Department is requesting clarification of the wording found in Specific Condition No. 7 of Permit No. 35435-001-SC for the construction of Pump Station B for the Southeast County Landfill (Landfill).

Specific Condition No. 7 outlines the requirements for Certification of Construction Completeness. However, it appears that the terms "professional engineer in charge of construction" and "engineer of record" are used interchangeably. The SWMD's landfill contractor, Waste Management Inc. of Florida (WMI) will be performing the construction and will contract with an independent engineering firm to provide construction quality assurance, to complete the Certification of Construction Completion, to complete Record Drawings, and to provide a narrative of any changes. This firm will, therefore, be responsible for the items referenced in Specific Condition No. 7, parts a, b, and c. However, part d references the engineer of record preparing a report to verify conformance with the requirements of F.A.C. 62-701.400. The SWMD assumes that this is actually the "professional engineer in charge of construction" and that WMI's professional engineer can provide this service as well. Phases II through VI of the Landfill were constructed and certified utilizing this format.

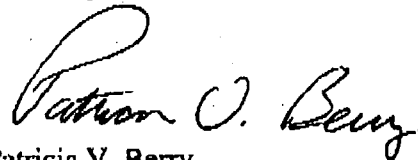
As you are aware, SCS Engineers (SCS) is the design engineer for Pump Station B. SCS will not, however, be providing full-time on-site construction services for Pump Station B. SCS will be providing quality control reviews and periodic inspections for the SWMD and will review WMI and its professional engineer's work. SCS will review the Record Drawings to ensure compliance with the design drawings and specifications.

Mr. Kim Ford
May 22, 1998
Page Two

The SWMD is requesting clarification of our interpretation that the professional engineer in charge of construction (WMI's professional engineer) will be able to prepare and certify the information required in Specific Condition 7.d.

Your assistance with this matter is appreciated.

Sincerely,



Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

xc: Matt Matthews, SWMD
Larry Ruiz, SCS
Greg Walk, WMI

INTEROFFICE MEMORANDUM

Sensitivity: COMPANY CONFIDENTIAL

Date: 02-Jun-1998 11:37am

From: Randy Cooper TPA
COOPER_R

Dept: Southwest District

Tel No: 813/744-6100 Ext.

Office

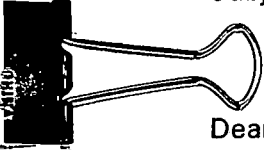
329

Subject: HC Southeast Landfill, removal of TS-2

While you were having a meeting in Manatee County (without me) I spoke to Karl Schmit about his calculations. It seems that he did not specifically address whether or not there will be a significant increase of off-site discharge after TS-2 is removed. He does not have any problems rerunning the ICPR model to demonstrate this and should have this information back to us within a couple of weeks. I hope you don't mind me asking him directly for this information.

I doubt there will be a significant increase, but they should be the one to demonstrate this.

Randy

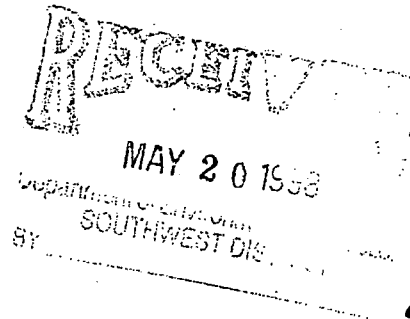
SCS ENGINEERSMay 19, 1998
File No. 0995029.13Mr. Kim B. Ford, P.E.
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619Subject: Administrative Change, Abandonment of Culvert TS-2
Southeast County Landfill, Hillsborough County, Florida
Operation Permit No. S029-256427

Dear Mr. Ford:

On behalf of the Hillsborough County Solid Waste Management Department (HCSWMD), SCS Engineers (SCS) is requesting authorization to abandon the temporary culvert TS-2. SCS is providing this information as requested in a letter dated September 16, 1996 by Mr. Randal R. Cooper from the Florida Department of Environmental Protection (FDEP). The referenced letter did not authorized the abandonment of temporary structure TS-2 pending an evaluation of the capacity of Basin D and all downstream culverts along the re-routed path to Basin D.

As shown on Figure 1, the design drainage area for Basin D consists of sub-areas D1 through D9. Structure TS-2 currently is serving portions of sub-area D3 and routing the runoff into Basin C. Drainage through TS-2 was intended to be temporary and was required due the construction sequence of the Southeast County Landfill (SCLF). As shown in Attachment A, Basin D and the culverts leading to it will be adequate to handle the re-routed drainage from sub-area D3. The HCSWMD will proceed with the replacement of the existing 30-inch diameter culvert S-25 with two 36-inch diameter culverts as authorized in the referenced letter in Item 3 (described as S-23). TS-2 will be plugged and abandoned as soon as the work is authorized by the FDEP.

The SCLF filling sequence has progressed to a stage where the construction of the energy dissipator for downchute No. 3 is required. The construction of the energy dissipator should be preceded by the replacement of S-25 and the abandonment of TS-2. As such, your prompt response will be appreciated.



*Randy
TAS
ADURSE
TAS
for
5/26/98
See
Encl.
6/1*



Mr. Kim B. Ford, P.E.

May 19, 1998

Page 2

Please do not hesitate to call if you have any questions.

Very truly yours,



Larry E. Ruiz

Senior Project Engineer



Robert B. Gardner, P.E.

Vice President

SCS ENGINEERS

LER/RBG:lr
attachments

cc: Patricia V. Berry, HCSWMD

Robert Butera, FDEP

Paul Schipfer, Hillsborough County Environmental Protection Commission

ATTACHMENT A
BASIN D STORMWATER CALCULATIONS

File No. 0995029.13

Calculations by Kar Date 5/19/98

Checked by Jar Date 5/19/98

Karl A. Schindler
5/19/98

Landfill Stormwater Management System Analysis

* NODE INPUT REPORT *

***** Input Report *****

-----Class: Node-----

Name: BASIND Base Flow(cfs): 0 Init Stage(ft): 107
Group: BASE Length(ft): 0 Warn Stage(ft): 115
Comment: Basin D

Time(hrs) Stage(ft)
0 107
1000 108

-----Class: Node-----

Name: DC3 Base Flow(cfs): 0 Init Stage(ft): 130
Group: BASE Length(ft): 0 Warn Stage(ft): 135
Comment: Exit from Downchute No. 3

Stage(ft) Area(ac)
130 0.1 } AREAS @ NODES ESTIMATED
135 0.2 }

-----Class: Node-----

Name: S20 Base Flow(cfs): 0 Init Stage(ft): 114
Group: BASE Length(ft): 0 Warn Stage(ft): 128
Comment: Entrance into S-20 (dual culverts)

Stage(ft) Area(ac)
114 0.5
128 0.6

-----Class: Node-----

Name: S21 Base Flow(cfs): 0 Init Stage(ft): 122
Group: BASE Length(ft): 0 Warn Stage(ft): 131
Comment: Entrance into S-21

Stage(ft) Area(ac)
122 0.5
131 0.6

-----Class: Node-----

Name: S22 Base Flow(cfs): 0 Init Stage(ft): 120
Group: BASE Length(ft): 0 Warn Stage(ft): 132
Comment: Entrance into S-22

Stage(ft) Area(ac)
120 0.5
132 0.6

-----Class: Node-----

Name: S25 Base Flow(cfs): 0 Init Stage(ft): 125
Group: BASE Length(ft): 0 Warn Stage(ft): 135
Comment: Entrance into S-25

Stage(ft) Area(ac)
125 0.5
135 0.6

Landfill Stormwater Management System Analysis

***** Input Report *****

-----Class: Basin-----

Basin: D1 Node: S22 Status: On Site Type: SCS Unit Hyd
Group: BASE

Unit Hydrograph: UH484 Peak Factor: 484
Rainfall File: FLMOD Storm Duration(hrs): 0
Rainfall Amount(in): 0
Area(ac): 31.9 Concentration Time(min): 30
Curve #: 55 Lag Time(hrs): 0
DCIA(%): 0

-----Class: Basin-----

Basin: D2 Node: S25 Status: On Site Type: SCS Unit Hyd
Group: BASE

Unit Hydrograph: UH484 Peak Factor: 484
Rainfall File: FLMOD Storm Duration(hrs): 0
Rainfall Amount(in): 0
Area(ac): 19.7 Concentration Time(min): 20
Curve #: 55 Lag Time(hrs): 0
DCIA(%): 0

-----Class: Basin-----

Basin: D3 Node: DC3 Status: On Site Type: SCS Unit Hyd
Group: BASE

Unit Hydrograph: UH484 Peak Factor: 484
Rainfall File: FLMOD Storm Duration(hrs): 0
Rainfall Amount(in): 0
Area(ac): 34.6 Concentration Time(min): 5
Curve #: 86 Lag Time(hrs): 0
DCIA(%): 0

-----Class: Basin-----

Basin: D4 Node: S25 Status: On Site Type: SCS Unit Hyd
Group: BASE

Unit Hydrograph: UH484 Peak Factor: 484
Rainfall File: FLMOD Storm Duration(hrs): 0
Rainfall Amount(in): 0
Area(ac): 18 Concentration Time(min): 5
Curve #: 86 Lag Time(hrs): 0
DCIA(%): 0

Landfill Stormwater Management System Analysis

***** Input Report *****

-----Class: Basin-----

Basin: D9 Node: BASIND Status: On Site Type: SCS Unit Hyd
Group: BASE

Unit Hydrograph: UH484 Peak Factor: 484
Rainfall File: FLMOD Storm Duration(hrs): 0
Rainfall Amount(in): 0
Area(ac): 15.5 Concentration Time(min): 1
Curve #: 100 Lag Time(hrs): 0
DCIA(%): 0

-----Class: Pipe-----

Name: S20	From Node: S20	Length(ft): 100
Group: BASE	To Node: BASIND	Count: 2
UPSTREAM	DOWNSTREAM	Equation: Average K
Geometry: Circular	Circular	Flow: Both
Span(in): 48	48	Entrance Loss Coef: 0.4
Rise(in): 48	48	Exit Loss Coef: 0
Invert(ft): 115.25	114.76	Bend Loss Coef: 0
Manning's N: 0.013	0.013	Outlet Cntrl Spec: Use dc or
Top Clip(in): 0	0	Inlet Cntrl Spec: Use dc
Bottom Clip(in): 0	0	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Square edge w/ headwall	1	1
--	---	---

Downstream FHWA Inlet Edge Description:

Circular Concrete: Square edge w/ headwall	1	1
--	---	---

Landfill Stormwater Management System Analysis

***** Input Report*****

-----Class: Pipe-----

Name: S21	From Node: S21	Length(ft): 50
Group: BASE	To Node: BASIND	Count: 1
UPSTREAM	DOWNSTREAM	Equation: Average K
Geometry: Circular	Circular	Flow: Both
Span(in): 36	36	Entrance Loss Coef: 0.4
Rise(in): 36	36	Exit Loss Coef: 0
Invert(ft): 123.15	122.91	Bend Loss Coef: 0
Manning's N: 0.013	0.013	Outlet Cntrl Spec: Use dc or tw
Top Clip(in): 0	0	Inlet Cntrl Spec: Use dc
Bottom Clip(in): 0	0	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:
 Circular Concrete: Square edge w/ headwall 1 1

Downstream FHWA Inlet Edge Description:
 Circular Concrete: Square edge w/ headwall 1 1

-----Class: Pipe-----

Name: S22	From Node: S22	Length(ft): 100
Group: BASE	To Node: S20	Count: 1
UPSTREAM	DOWNSTREAM	Equation: Average K
Geometry: Circular	Circular	Flow: Both
Span(in): 36	36	Entrance Loss Coef: 0.7
Rise(in): 36	36	Exit Loss Coef: 0
Invert(ft): 121.29	120.61	Bend Loss Coef: 0
Manning's N: 0.013	0.013	Outlet Cntrl Spec: Use dc or tw
Top Clip(in): 0	0	Inlet Cntrl Spec: Use dc
Bottom Clip(in): 0	0	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:
 Circular CMP: Mitered to slope 2 2

Downstream FHWA Inlet Edge Description:
 Circular CMP: Mitered to slope 2 2

Landfill Stormwater Management System Analysis

***** Input Report *****

-----Class: Pipe-----

Name: S25	From Node: S25	Length(ft): 100
Group: BASE	To Node: S22	(Count: 2)
UPSTREAM	DOWNSTREAM	Equation: Average K
Geometry: Circular	Circular	Flow: Both
Span(in): 36	36	Entrance Loss Coef: 0.7
Rise(in): 36	36	Exit Loss Coef: 0
Invert(ft): 124.89	125.4	Bend Loss Coef: 0
Manning's N: 0.024	0.024	Outlet Cntrl Spec: Use dc or
Top Clip(in): 0	0	Inlet Cntrl Spec: Use dc
Bottom Clip(in): 0	0	Stabilizer Option: None

2-36" ϕ PIPES

Upstream FHWA Inlet Edge Description:

Circular CMP: Mitered to slope

2 2

Downstream FHWA Inlet Edge Description:

Circular CMP: Mitered to slope

2 2

-----Class: Channel-----

Name: CHANNEL	From Node: DC3	Length(ft): 1650
Group: BASE	To Node: S25	Count: 1
UPSTREAM	DOWNSTREAM	Equation: Aver Conveyanc
Geometry: Trapezoidal	Trapezoidal	Flow: Both
Invert(ft): 130	125.4	Eddy Contrac Coef: 0
TOB(ft): 135	135	Eddy Expans Coef: 0
Manning's N: 0.042	0.042	Entrance Loss Coef: 0.7
TClip(ft): 0	0	Exit Loss Coef: 0
BClip(ft): 0	0	Outlet Cntrl Spec: Use dc or tw
Main Xsec:		Inlet Cntrl Spec: Use dc
AxE11(ft):		Stabilizer Option: None
Aux Xsec1:		
AxE12(ft):		
Aux Xsec2:		
TWidth(ft):		
Depth(ft):		
BWidth(ft): 8	8	
LSdSlp(h/v): 4	4	
RSdSlp(h/v): 4	4	

Landfill Stormwater Management System Analysis

***** Input Report *****

-----Class: Simulation-----

C:\ICPR2\BASIN_D\RESULTS\BASIND

Execution: Both

Header: Basin D Analysis

SCLF, Hillsborough County, Florida

-----HYDRAULICS-----HYDROLOGY-----

Max Delta Z (ft): 1

Delta Z Factor: 0.05

Time Step Optimizer: 10

Drop Structure Optimizer: 10

Sim Start Time(hrs): 0

Sim End Time(hrs): 40

Min Calc Time(sec): 1

Max Calc Time(sec): 300

To Hour: PInc(min):

11 60

40 30

Override Defaults: Yes

Storm Dur(hrs): 24

Rain Amount(in): 8.4

Rainfall File: FLMOD

To Hour: PInc(min):

40 15

-----GROUP SELECTIONS-----

+ BASE [05/06/98]

Basin D Analysis
 SCLF, Hillsborough County, Florida

***** Basin Summary - BASIND *****

	D1	D2	D3	D4	D5
Basin Name:	D1	D2	D3	D4	D5
Group Name:	BASE	BASE	BASE	BASE	BASE
Node Name:	S22	S25	DC3	S25	S20
Hydrograph Type:	UH	UH	UH	UH	UH
Unit Hydrograph:	UH484	UH484	UH484	UH484	UH484
Peaking Factor:	484.00	484.00	484.00	484.00	484.00
Spec Time Inc (min):	4.00	2.67	0.67	0.67	2.67
Comp Time Inc (min):	4.00	2.67	0.67	0.67	2.67
Rainfall File:	FLMOD	FLMOD	FLMOD	FLMOD	FLMOD
Rainfall Amount (in):	8.40	8.40	8.40	8.40	8.40
Storm Duration (hr):	24.00	24.00	24.00	24.00	24.00
Status:	ONSITE	ONSITE	ONSITE	ONSITE	ONSITE
Time of Conc. (min):	30.00	20.00	5.00	5.00	20.00
Lag Time (hr):	0.00	0.00	0.00	0.00	0.00
Area (acres):	31.90	19.70	34.60	18.00	38.20
Vol of Unit Hyd (in):	1.00	1.00	1.00	1.00	1.00
Curve Number:	55.00	55.00	86.00	86.00	86.00
DCIA (%):	0.00	0.00	0.00	0.00	0.00
Time Max (hrs):	12.27	12.13	12.00	12.00	12.09
Flow Max (cfs):	60.59	44.22	202.79	105.50	187.07
Runoff Volume (in):	3.06	3.06	6.71	6.71	6.71
Runoff Volume (cf):	353970	218595	842846	438475	930541

	D6	D7	D8	D9
Basin Name:	D6	D7	D8	D9
Group Name:	BASE	BASE	BASE	BASE
Node Name:	S20	S21	BASIND	BASIND
Hydrograph Type:	UH	UH	UH	UH
Unit Hydrograph:	UH484	UH484	UH484	UH484
Peaking Factor:	484.00	484.00	484.00	484.00
Spec Time Inc (min):	2.00	4.00	0.13	0.13
Comp Time Inc (min):	2.00	4.00	0.13	0.13
Rainfall File:	FLMOD	FLMOD	FLMOD	FLMOD
Rainfall Amount (in):	8.40	8.40	8.40	8.40
Storm Duration (hr):	24.00	24.00	24.00	24.00
Status:	ONSITE	ONSITE	ONSITE	ONSITE
Time of Conc. (min):	15.00	30.00	1.00	1.00
Lag Time (hr):	0.00	0.00	0.00	0.00
Area (acres):	12.80	73.90	7.50	15.50
Vol of Unit Hyd (in):	1.00	1.00	1.00	1.00
Curve Number:	55.00	55.00	55.00	100.00
DCIA (%):	0.00	0.00	0.00	0.00
Time Max (hrs):	12.07	12.27	12.00	11.84
Flow Max (cfs):	31.70	140.37	23.68	98.13

Basin D Analysis
SCLF, Hillsborough County, Florida

***** Node Maximum Conditions - BASIND *****

(Time units - hours)

Node Name	Group Name	Max Time Conditions	Max Stage (ft)	Warning Stage (ft)	Max Delta Stage (ft)	Max Su Area
BASIND	BASE	40.01	107.04	< 115.00	OK 0.0001	1
DC3	BASE	12.45	132.88	< 135.00	" 0.0426	400
S20	BASE	12.26	120.18	< 128.00	" 0.0497	238
S21	BASE	12.50	128.37	< 131.00	" 0.0390	248
S22	BASE	12.64	130.22	< 132.00	" 0.0500	255
S25	BASE	12.46	132.86	< 135.00	" 0.0499	735

OK

Basin D Analysis
SCLF, Hillsborough County, Florida

ie Flow THROUGH APES

*****Link Maximum Conditions - BASIND *****

(Time units - hours)

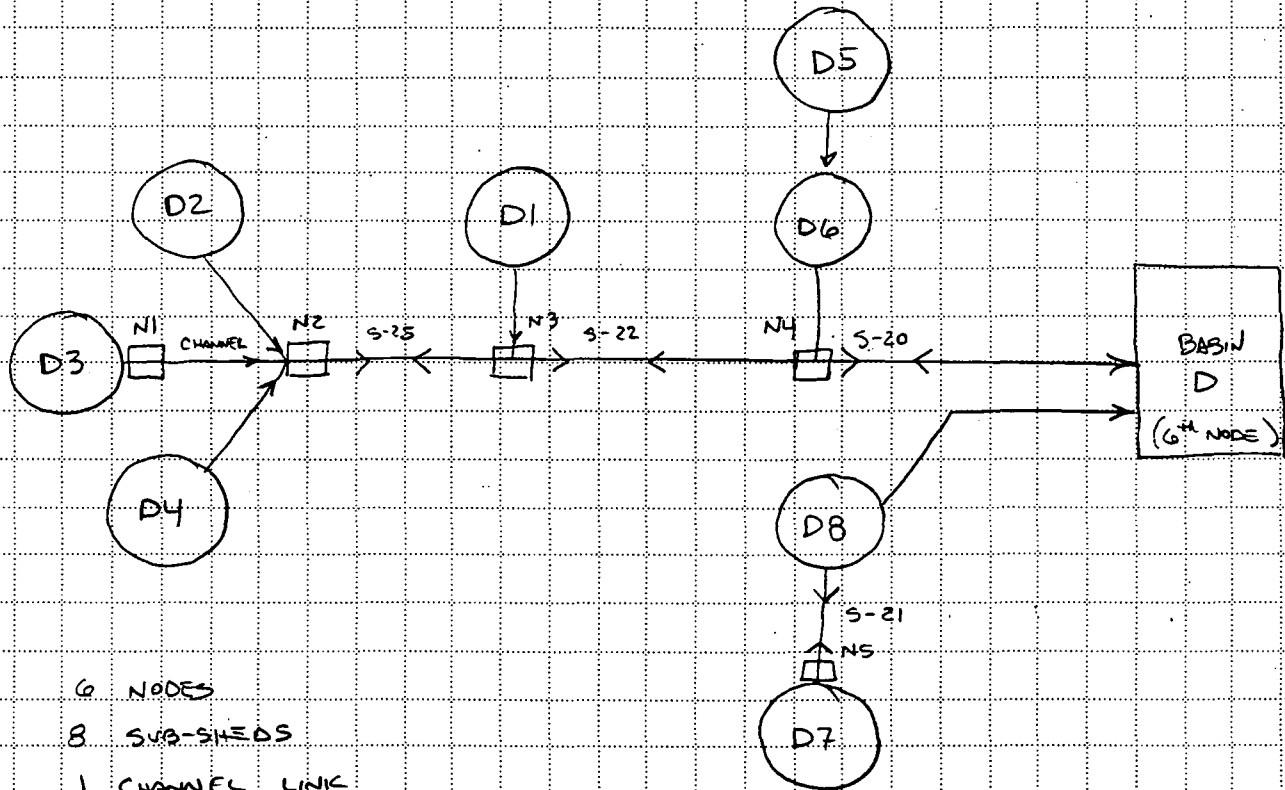
Link Name	Group Name	Max Time Flow	Max Flow (cfs)	Max Delta Q (cfs)	Max Time U/S Stage	Max
CHANNEL	BASE	11.96	175.50	-28.39	12.45	
S20	BASE	12.26	275.62	-47.02	12.26	
S21	BASE	12.50	104.07	9.09	12.50	
S22	BASE	12.64	124.04	13.42	12.64	
S25	BASE	12.18	134.92	-3.44	12.46	

SCS ENGINEERS

SHEET _____ OF _____

CLIENT	PROJECT	JOB NO.
SUBJECT	BY	DATE
BASIN D ANALYSIS	CHECKED	DATE

NODE SCHEMATIC

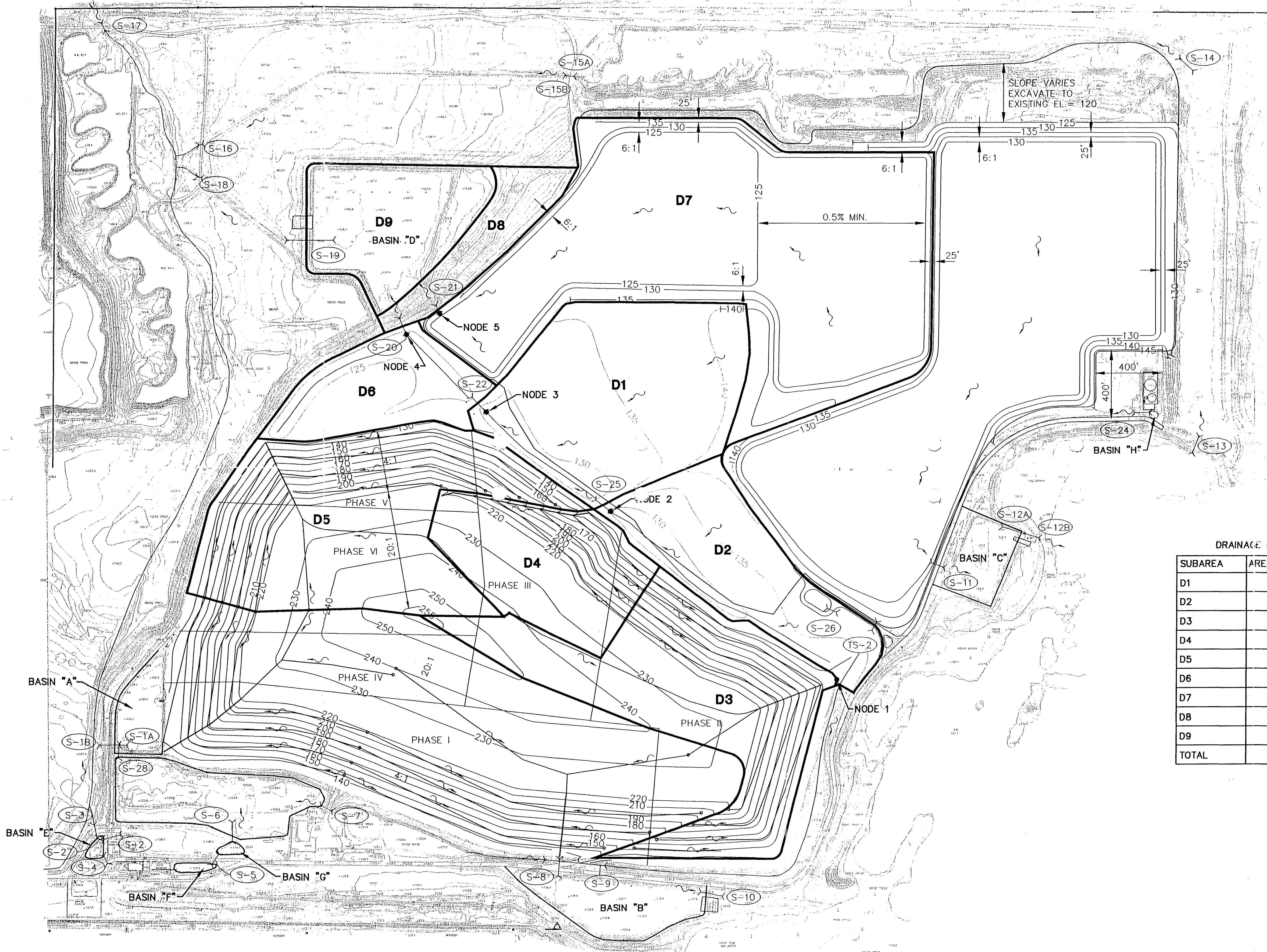
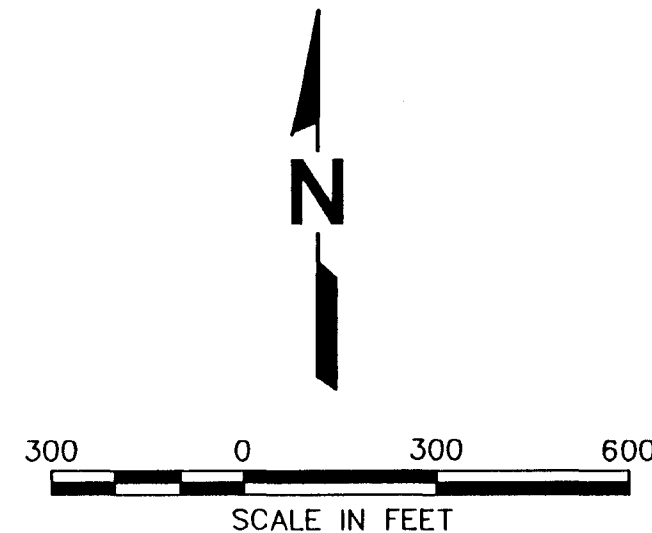


- 6 NODES
- 8 SUB-SHEDS
- 1 CHANNEL LINK
- 4 PIPE CONVEYS

N1 = DOWNCHUTE EXIT

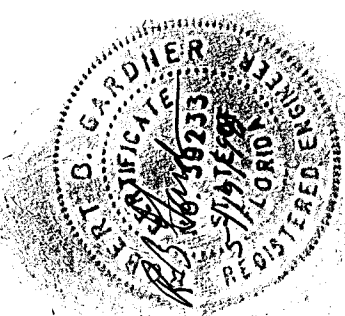
1086375

1



DRAINAGE DATA

SUBAREA	AREA (ACRES)	CN
D1	31.9	55
D2	19.7	55
D3	34.6	86
D4	18.0	86
D5	38.2	86
D6	12.8	55
D7	73.9	55
D8	7.5	55
D9	15.5	100
TOTAL	252.1	--



REV.	DATE	DESCRIPTION	CK.	BY
1				
2				
3				
4				
5				

DRAWING TITLE	DRAINAGE PLAN
PROJECT TITLE	SOUTH-EAST COUNTY LANDFILL

CLIENT	HILLSBOROUGH COUNTY SOLID WASTE MANAGEMENT DEPARTMENT TAMPA, FLORIDA
--------	---

SCS ENGINEERS STEARN, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3012 U.S. HWY. 301 NORTH, SUITE 700, TAMPA, FL 33618 PH (813) 624-0080 FAX NO. (813) 624-0717	DATE MAY 16, 1998
---	----------------------

CADD FILE DDRAIN	DRAWING NO.
---------------------	-------------

RECEIVED
MAY 20 1998
BY: SCOTT HARRIS
FOR: HILLSBOROUGH COUNTY

FDEP

3804 Coconut Palm Drive, Tampa, FL 33619-8318

FAX

FAXED

Date:

5/20/98

Number of pages including cover sheet:

2

To:

Larry Ruiz
SES

Phone:

60210080

Fax phone:

60236757

CC:

From:

Kim Ford

Phone:

(813) 744-6100

x382

Fax phone:

(813) 744-6125

REMARKS:

☐ Urgent

☒ For your review

☐ Reply ASAP

☐ Please comment

Larry
Here's notes of meeting
sent to Larry on 4/4/98.

Kim

MEETING SUMMARY- SE LANDFILL PHASES V AND VI

April 9, 1998

2:10 p.m.

Bob G. discussed the agenda issues and explained the "scenario" table.

Larry R. explained the layout for the tire trenches.

Karl S. discussed the filter material.

Kim F. objected to the conclusion that the existing system complies with FDEP rules based on the consultant's calculations without FDEP's recommended equation and lack of field data to support consultant's slope for the top of clay.

Bob G. agreed to investigate the slope of the top of clay for future reference and concluded that the proposed scenario #6 which includes the rain cover and additional collection trenches will be cost effective by saving on the amount of leachate that needs to be treated.

Kim F. explained the that a construction permit is required along with a fee of \$1000 for the Phases V and VI improvements, and later a minor modification to the operation permit with the certification of construction completion along with a fee of \$250.

Patty said the leachate tank inspection would be completed within 30 days.

Kim F. requested a final report on the treatment plant corrective actions.

Larry R. discussed intentions to use a rain cover on Phase IV.

Kim F. requested a proposal for temporary use of the rain cover until the Leachate Management Plan and operations permits are modified to include its continued use.

kbk

Transmit Confirmation Report

No.	:	001
Receiver	:	9-623-6757
Transmitter	:	WASTE MGT TAMPA SWDIST
Date	:	May 20 98 8:03
Time	:	01'02
Mode	:	Norm
Pages	:	02
Result	:	OK

FAX COVER**TO:**

DATE: 4/27/98 - 5/19/98
NAME: Kim Ford
COMPANY NAME: FDER
FAX NUMBER: 744-6125
PHONE NUMBER: 744-6100

SCS ENGINEERS

Environmental Consultants

3012 Us Highway 301 North
Suite 700
Tampa, Florida 33619

Phone 813 621-0080
FAX 813 623-6757

FROM: Larry Wiz
JOB/OVERHEAD NUMBER: 0995029.13
NUMBER OF PAGES: _____

COMMENTS:

For your review:
As we requested in our meeting, could
you provide a letter to the County as the
one attached?
Please call with comments.

Larry

PLEASE call

BEST AVAILABLE COPY

April XX, 1998

Hillsborough County
Solid Waste Management Department
Mr. Daryl Smith, Director
P. O. Box 1110
Tampa, Florida 33601

DRAFT

Re: Southeast County Landfill - Phases V and VI Leachate Collection System

Dear Mr. Smith:

As you are aware, on April 9, 1998, we had a pre-application meeting to discuss the operation permit modification and the liner/leachate collection system of Phases V and VI at the Southeast County Landfill (SCLF).

In the meeting, the County presented conclusions which suggested the existing liner/leachate collection systems in Phases V and VI comply with the requirements of Rule 62-701.400(3) Florida Administrative Code (FAC). Although the Florida Department of Environmental Protection (FDEP) does not completely dismiss the County's conclusions, the FDEP believes that insufficient field data has been presented to provide reasonable assurance to the FDEP that the existing liner/leachate collection system in Phases V and VI will perform as predicted.

In the absence of this data, the FDEP believes the improvements proposed by the County, which include adding additional leachate collection trenches and using rain tarps, provides the FDEP with the necessary reasonable assurance that the SCLF liner/leachate collection will comply with the requirements of Rule 62-701.400(3).

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

DRAFT

Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

KBF/kf

cc: Robert Gardner, P.E., SCS Engineers
Paul Schipfer, EPCHC
Robert Butera, P.E., FDEP Tampa

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HILLSBOROUGH COUNTY

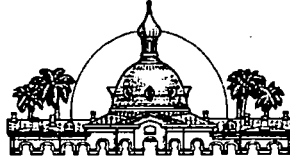
FLORIDA

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Jimmie Keel

May 11, 1998

D.E.P.

MAY 12 1998

SOUTHWEST DISTRICT
TAMPA

Mr. Kim Ford, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

SUBJECT: Leachate Treatment and Reclamation Facility - Repair Update/Storage Tank
Inspection Schedule

Dear Mr. Ford:

This information is being provided as an update on the repairs to the PACT tankage at the County's Leachate Treatment and Reclamation Facility (LTRF). As previously discussed in the Hillsborough County Solid Waste Management Department's (SWMD) January 30, 1998 correspondence (copy attached), the SWMD was able to successfully negotiate with U.S. Filter/Zimpro (Zimpro) to have Zimpro and its subcontractors, Fisher Tank and ECO Painting to perform the work required to repair the LTRF.

As outlined in the attached internal memorandum, all structural repairs were completed to the PACT tankage on January 23, 1998, with all coating work completed on February 23, 1998. Following the scheduled coating cure time, a walk-through was conducted by representatives of the County and Zimpro. During the walk-through, it was found that the installation of all of the isolation kits required for separation of the tank's dissimilar metals was not completed. Zimpro has indicated that they intend to complete the remaining work during the next two weeks. Once the work has been completed, all required certifications/reports will be submitted to the SWMD.

Once Zimpro's repair work has been accepted by the County, the SWMD will be in a position to proceed with the draining of the 500,000 gallon leachate storage tank in preparation for the required tank inspection and certification. While the 500,000 storage tank is drained for inspection, the SWMD will utilize the PACT tankage for the storage of leachate prior to off-site removal. This will allow the SWMD to continue to have sufficient storage to maintain accelerated leachate removal from the Southeast County Landfill. As there is no other leachate storage alternative, some re-valving will have to be performed prior to utilization of the PACT tankage for storage. This re-valving work can be accomplished in conjunction with Zimpro completing the remaining repair work.

Mr. Kim Ford
May 11, 1998
Page Two

Since the SWMD was unable to place leachate into the PACT tankage prior to the County's acceptance of Zimpro's work, the 500,000 gallon tank inspection had to be scheduled following completion of the repairs. Since Zimpro has committed to completing the remaining PACT repairs within two weeks, the 500,000 gallon tank inspection work should begin by the end of the month. At this time, a firm has been procured by the SWMD to perform this work and is awaiting the County's Notice-to-Proceed. The firm has submitted the following schedule:

- Following the transfer of leachate to the PACT tank, Florida Aquastore will install a manway in the side of the tank (1 working day)

- Washout and inspection of the tank by Tank Engineering and Management Consultants, Inc. (TEAM) (3 working days)

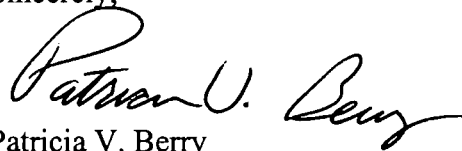
- Preparation and delivery of the certification report by TEAM (within 3 weeks of the inspection)

Should any changes develop in the outlined schedule, the DEP will be promptly notified.

As previously stated, the DEP is welcome to visit the site and observe the Zimpro repair work and/or the 500,000 tank inspection first hand. Let us know if you are interested and we can arrange to meet you onsite.

Please advise should you have any questions concerning the information provided.

Sincerely,



Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

Attachments

xc: John Johnson, SWMD
Matt Matthews, SWMD
Larry Ruiz, SCS
Paul Schipfer, EPC

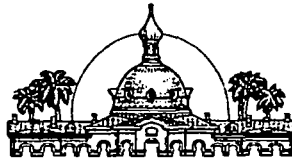
HILLSBOROUGH COUNTY

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MEMORANDUM

D.E.P.

MAY 12 1998

SOUTHERN
TALIA

DATE: May 7, 1998

TO: Patricia V. Berry, Landfill Services Section Manager, Solid Waste Management Department

FROM: John W. Johnson, Landfill Services Section

SUBJECT: Leachate Treatment and Reclamation Facility - Repair Schedule Update

The following is a summary of the scheduled repair and coating work to the PACT tankage at the County's Leachate Treatment and Reclamation Facility (LTRF):

January 23, 1998;

All structural repairs were completed by Fisher Tank Co. including all "punch-list" items identified by U.S. Filter/Zimpro's on-site project manager and the County's independent structural inspector, Tank Engineering And Management Consultants, Inc. (TEAM).

February 23, 1998;

All coating (painting) work was completed by ECO Painting including "punch-list" items identified by U.S. Filter/Zimpro's on-site project manager and the County's independent coatings inspector, TEAM.

February 24, 1998 - April 30, 1998;

Scheduled coating "cure" time in accordance with paint manufacturer's recommendation to include allowances for rain/wet days.

April 30, 1998;

Walk-through inspection performed with representatives from the County, TEAM, U.S. Filter/Zimpro and Tenemec Paints in attendance.

Page 2

Walk-through inspection summary:

- 1- The Tenemec paint coating had reached its proper cure.
- 2- The isolation kits installed by U.S. Filter/Zimpro for separation of the tank's dissimilar metals was not complete.

Summary:

The structural repairs and coating of the PACT tankage are complete with exception to installation of the remaining isolator kits by U.S. Filter/Zimpro. A schedule for installation of the remaining kits has not been forwarded to the County as of this date. The County's desire for a schedule has been presented to U.S. Filter/Zimpro. Once the work has been completed, all required certifications/reports will be submitted to the County.

Timing for installation of the kits has a definite bearing on the County's schedule for the draining and inspection of the LTRF's Main Leachate Storage Tank. An independent certified inspection firm has been procured to perform the storage tank inspection and is awaiting our Notice-To-Proceed.

c: file/ltrf

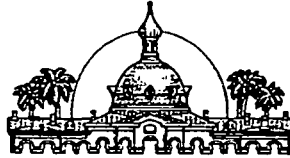
HILLSBOROUGH COUNTY

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January 30, 1998

D.E.P.

MAY 12 1998

SOUTHERN
TAMPA

Mr. Kim Ford, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

SUBJECT: Leachate Treatment and Reclamation Facility - Repair Schedule

Dear Mr. Ford:

As you are aware, the Hillsborough County Solid Waste Management Department (SWMD) has been able to successfully negotiate with U.S. Filter/Zimpro (Zimpro) to have Zimpro and its subcontractors, Fisher Tank and ECO Painting, complete the work required to repair the PACT tankage at the County's Leachate Treatment and Reclamation Facility (LTRF).

The scope involves welding and repair work, followed by repainting of repair areas within the tank's interior surface. Additionally, Zimpro will apply a third coat to the entire tank surface to provide additional protection to the tank.

On January 12, 1998, all involved parties met on site to discuss the project scope and to mobilize the work. At that time, the SWMD requested that Zimpro provide a more detailed schedule of the work plan to the County. On January 15, 1998, the SWMD received the schedule from Zimpro shown in Attachment 1. Following receipt of the schedule, the SWMD requested additional information from Zimpro concerning the schedule. On January 16, 1998, the SWMD received the information provided in Attachment 2.

To date, all structural steel repairs were completed as of January 23, 1998. The painting subcontractor began sandblasting on January 28, 1998 and are expected to complete all painting by February 13, 1998.

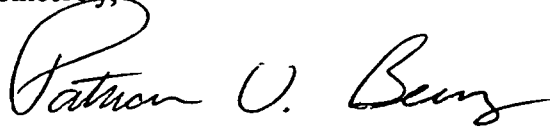
Mr. Kim Ford
January 30, 1998
Page Two

To ensure that all work is being completed in accordance with the original Contract Documents and all applicable specifications and codes, Zimpro has provided a full time on-site field superintendent. In addition, the SWMD procured the services of an independent certified inspection firm. Specifically, the SWMD hired Tank Engineering and Management Consultants, Inc. (TEAM) to perform the inspection services. TEAM's role is to provide a certified welding inspector during the welding and repair work and a National Association of Coating Engineers (NACE) certified coating inspector to provide full-time inspection during the surface preparation and recoating of the tank interior. TEAM will also oversee the non-destructive testing of the coating.

A site visit anytime between now and the scheduled completion date may be of interest to you to observe the repair work first hand. Let us know if you are interested and we can arrange to meet you onsite at your convenience.

Please advise should you have any questions concerning the information provided.

Sincerely,

A handwritten signature in black ink, appearing to read "Patricia V. Berry". The signature is fluid and cursive, with the first name "Patricia" being the most prominent part.

Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

Attachments

xc: John Johnson, SWMD
Matt Matthews, SWMD
Larry Ruiz, SCS
Paul Schipfer, EPC

Attachment 1

U.S.FILTER/ZIMPRO

301 West Military Road
Rothschild, WI 54474

January 14, 1998

Patricia Berry
Hillsborough County
Department of Solid Waste
P. O. Box 1110
Tampa, FL 33601

Re: Hillsborough County Warranty Work
Construction Schedule
U.S. Filter/Zimpro Project No. 21-2481(01) 30.0 7500

Dear Ms. Berry:

The schedule for the repair work that you requested is.

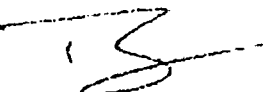
Structural Steel repairs will be completed by Friday, January 23rd.

Sandblasting and painting is scheduled to start Monday January 26th and will finish by February 13th.

This schedule includes an allowance for some bad weather, but could be adversely affected by an extended period of cold or rainy weather during the painting phase.

If I can be of any further assistance, please let me know.

Very truly yours,



Thomas R. Zenda
Field Superintendent

cc: Roger Hurd

U.S.FILTER/ZIMPRO

301 West Military Road
Rothschild, WI 54474

January 15, 1998

Patricia Berry
Hillsborough County
Department of Solid Waste
P. O. Box 1110
Tampa, FL 33601

RECEIVED

JAN 16 1998

by Solid Waste Department

Re: Hillsborough County Warranty Work
Construction Schedule
U.S. Filter/Zimpro Project No. 21-2481(01) 30.0 7500

Dear Ms. Berry:

The additional information concerning our schedule requested by John Johnson follows.

In general, the sequence of painting will start in the 1st Stage Aeration Tank and work towards the Anoxic Mix Tank and from the inside to the outside. Bare steel will be sandblasted and prime coated first. When bare steel is sandblasted, it will prime coated the same day. After the second coat is applied to the repaired areas, the third coat will than be applied to all steel surfaces, sandblasting where required. The final coat of Tnemec 73 will than be applied to exterior surfaces.

Fisher Tank will be working from 7 AM to 5:30 PM during the steel repairs. I do not know at this time what hours ECO Painting will be working.

As I noted yesterday, structural steel repairs will be completed by Friday, January 23rd. Sandblasting and painting is scheduled to start Monday January 26th and will finish by February 13th. This schedule includes an allowance for some bad weather, but could be adversely affected by an extended period of cold or rainy weather during the painting phase.

If I can be of any further assistance, please let me know.

Very truly yours,



Thomas R. Zenda
Field Superintendent

cc: Roger Hurd