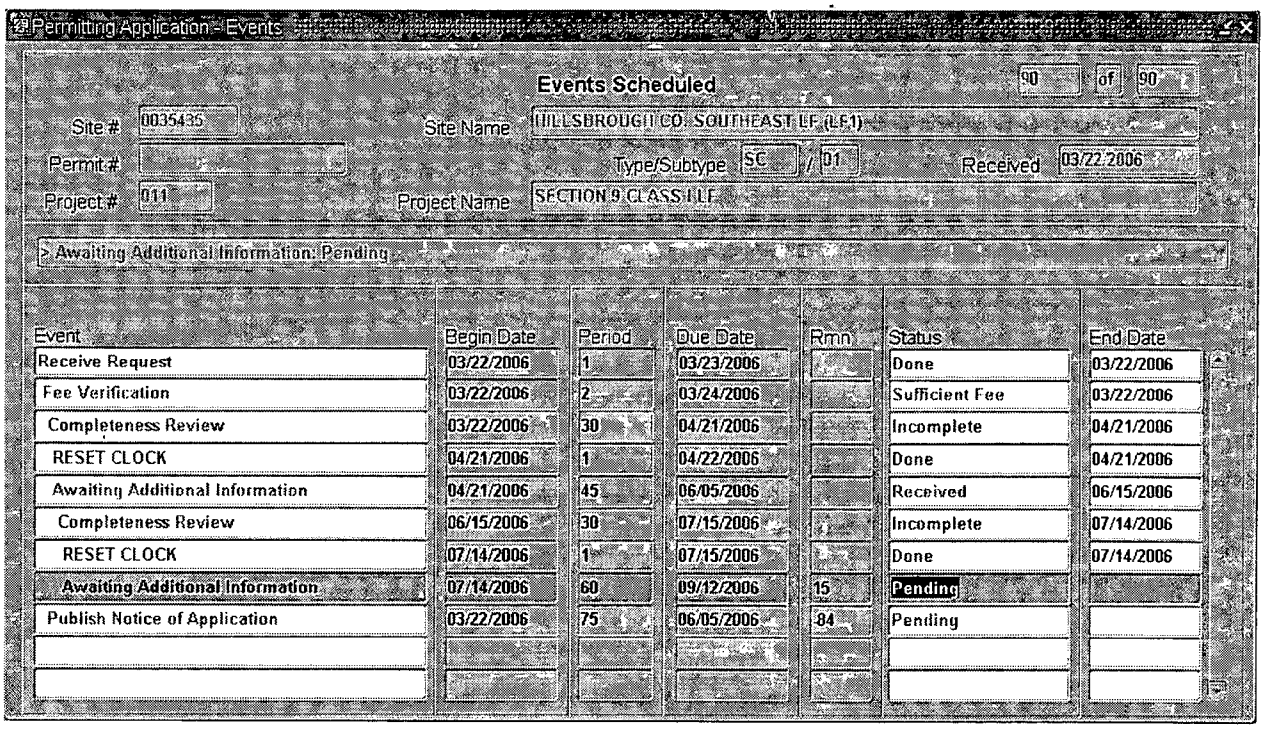

Permitting Application - Events

Events Scheduled 90 of 90

Site # 0035435 Site Name HILLSBOROUGH CO. SOUTHEAST LF (LF1)

Permit # Type/Subtype SC / 01 Received 03/22/2006

Project # 011 Project Name SECTION 9 CLASS I LF

> Awaiting Additional Information: Pending

Event	Begin Date	Period	Due Date	Rmn	Status	End Date
Receive Request	03/22/2006	1	03/23/2006		Done	03/22/2006
Fee Verification	03/22/2006	2	03/24/2006		Sufficient Fee	03/22/2006
Completeness Review	03/22/2006	30	04/21/2006		Incomplete	04/21/2006
RESET CLOCK	04/21/2006	1	04/22/2006		Done	04/21/2006
Awaiting Additional Information	04/21/2006	45	06/05/2006		Received	06/15/2006
Completeness Review	06/15/2006	30	07/15/2006		Incomplete	07/14/2006
RESET CLOCK	07/14/2006	1	07/15/2006		Done	07/14/2006
Awaiting Additional Information	07/14/2006	60	09/12/2006	15	Pending	
Publish Notice of Application	03/22/2006	75	06/05/2006	84	Pending	

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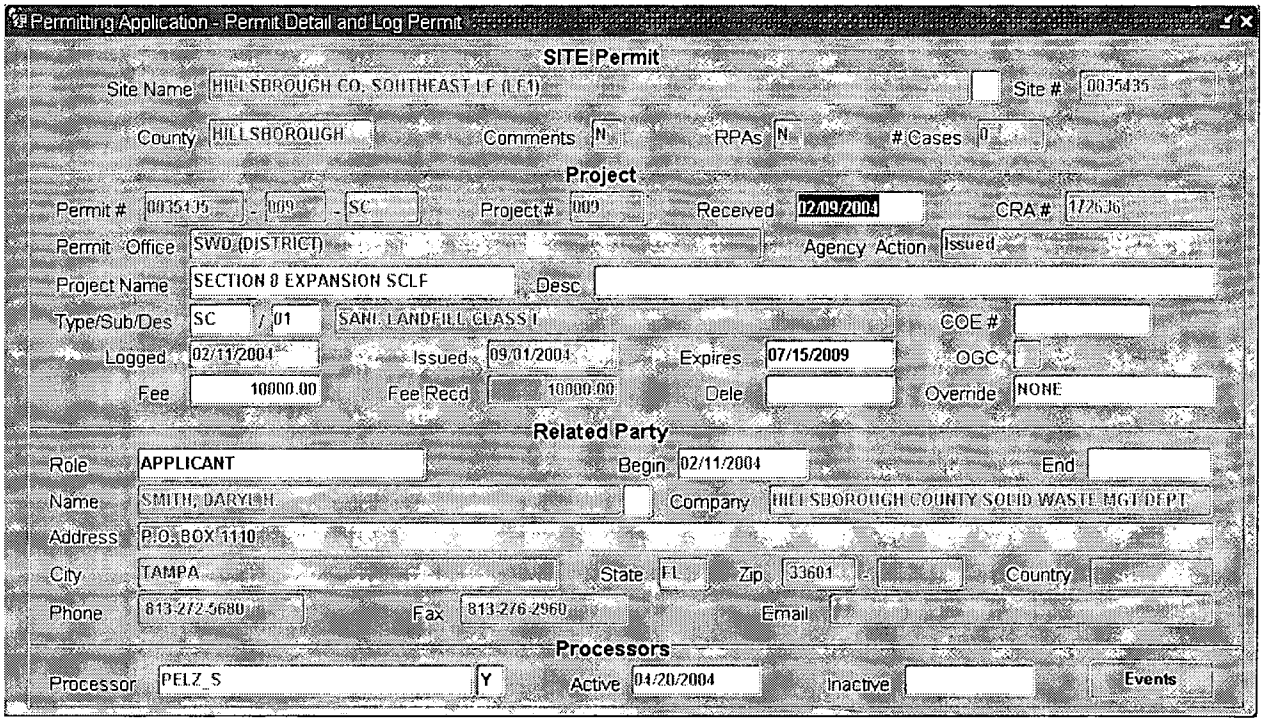
Permitting Application - Permit Detail and Log Permit
SITE Permit
Site Name HILLSBOROUGH CO. SOUTHEAST LF (LF1)
Site # 0035435
County HILLSBOROUGH
Comments N
RPAs N
Cases 0
Project
Permit # 0035435 - 009 - SC
Project # 009
Received 12/09/2004
CRA # 172636
Permit Office SWD (DISTRICT)
Agency Action Issued
Project Name SECTION 8 EXPANSION SCLF
Desc
Type/Sub/Des SC / 01 SANI. LANDFILL CLASS I
COE #
Logged 02/11/2004
Issued 09/01/2004
Expires 07/15/2009
OGC
Fee 10000.00
Fee Recd 10000.00
Dele
Override NONE
Related Party
Role APPLICANT
Begin 02/11/2004
End
Name SMITH, DARYL H.
Company HILLSBOROUGH COUNTY SOLID WASTE MGT DEPT
Address P.O. BOX 1110
City TAMPA
State FL
Zip 33601
Country
Phone 813-272-5680
Fax 813-276-2960
Email
Processors
Processor PELZ_S
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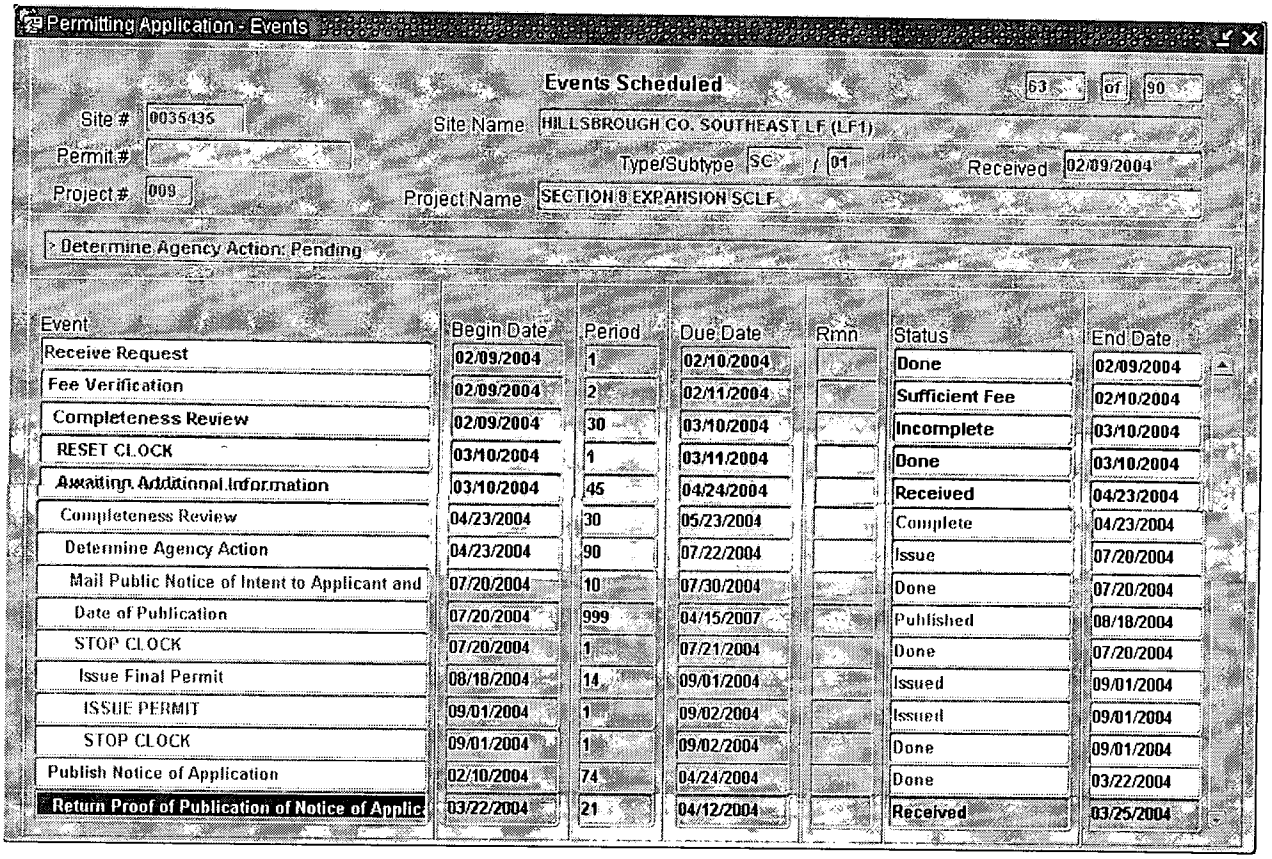
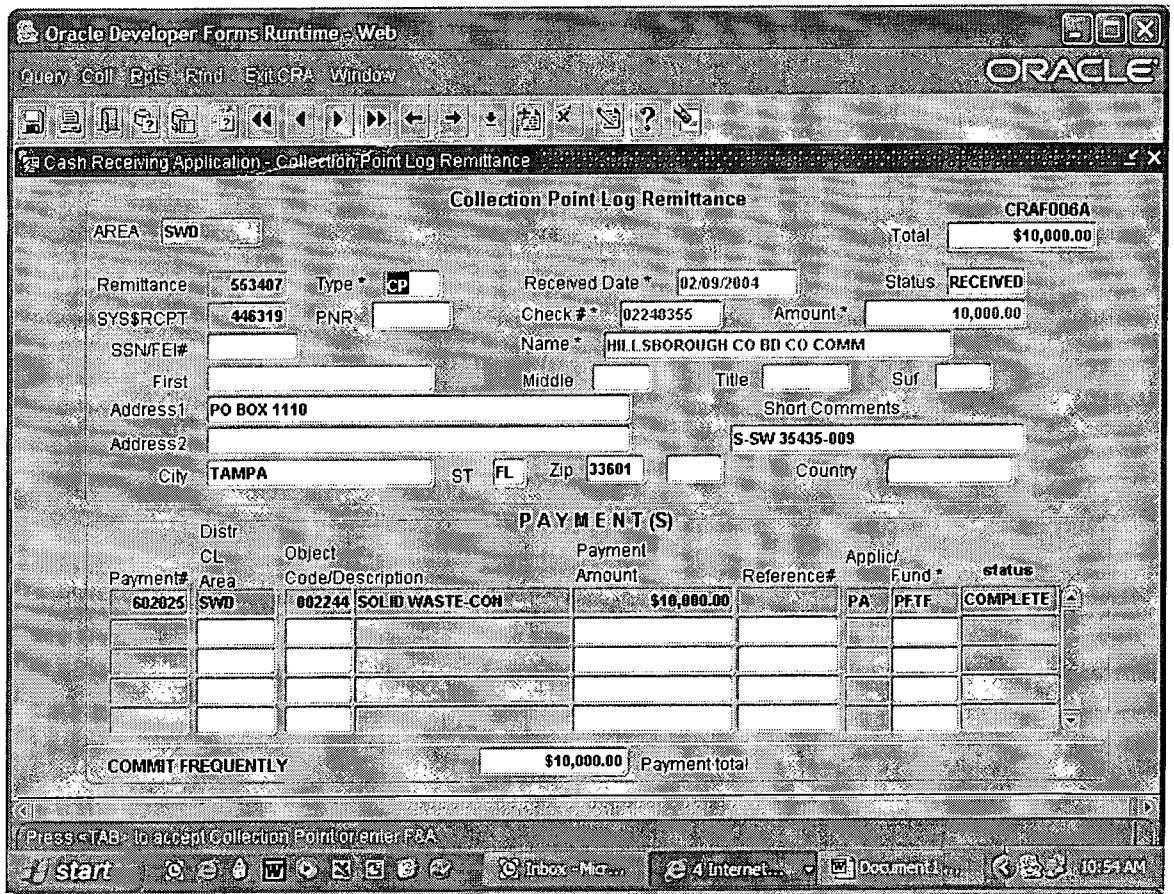
Active 04/20/2004
Inactive
Events


Permitting Application - Events
Events Scheduled
63 of 90
Site # 0035435
Site Name HILLSBOROUGH CO. SOUTHEAST LF (LF1)
Permit #
Type/Subtype SC / 01
Received 02/09/2004
Project # 009
Project Name SECTION 8 EXPANSION SCLF
Determine Agency Action: Pending
Event | Begin Date | Period | Due Date | Rmn | Status | End Date
Receive Request | 02/09/2004 | 1 | 02/10/2004 | | Done | 02/09/2004
Fee Verification | 02/09/2004 | 2 | 02/11/2004 | | Sufficient Fee | 02/10/2004
Completeness Review | 02/09/2004 | 30 | 03/10/2004 | | Incomplete | 03/10/2004
RESET CLOCK | 03/10/2004 | 1 | 03/11/2004 | | Done | 03/10/2004
Awaiting Additional Information | 03/10/2004 | 45 | 04/24/2004 | | Received | 04/23/2004
Completeness Review | 04/23/2004 | 30 | 05/23/2004 | | Complete | 04/23/2004
Determine Agency Action | 04/23/2004 | 90 | 07/22/2004 | | Issue | 07/20/2004
Mail Public Notice of Intent to Applicant and | 07/20/2004 | 10 | 07/30/2004 | | Done | 07/20/2004
Date of Publication | 07/20/2004 | 999 | 04/15/2007 | | Published | 08/18/2004
STOP CLOCK | 07/20/2004 | 1 | 07/21/2004 | | Done | 07/20/2004
Issue Final Permit | 08/18/2004 | 14 | 09/01/2004 | | Issued | 09/01/2004
ISSUE PERMIT | 09/01/2004 | 1 | 09/02/2004 | | Issued | 09/01/2004
STOP CLOCK | 09/01/2004 | 1 | 09/02/2004 | | Done | 09/01/2004
Publish Notice of Application | 02/10/2004 | 74 | 04/24/2004 | | Done | 03/22/2004
Return Proof of Publication of Notice of Applic | 03/22/2004 | 21 | 04/12/2004 | | Received | 03/25/2004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ORACLE
Cash Receiving Application - Collection Point Log Remittance
Collection Point Log Remittance
CRAF006A
AREA SWD
Total $10,000.00
Remittance 563407 Type * CP
Received Date * 02/09/2004
Status RECEIVED
SYS$RCPT 446319 PNR
Check # * 02248355
Amount * 10,000.00
SSN/FEI#
Name * HILLSBOROUGH CO BD CO COMM
First
Middle
Title
Suf
Address1 PO BOX 1110
Short Comments
Address2
S-SW 35435-009
City TAMPA ST FL Zip 33601
Country
PAYMENT(S)
Payment# Distr CL Area Object Code/Description Payment Amount Reference# Applic/ Fund * status
602025 SWD 002244 SOLID WASTE-CON $10,000.00 PA PFTF COMPLETE
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Press <TAB> to accept Collection Point or enter F&A
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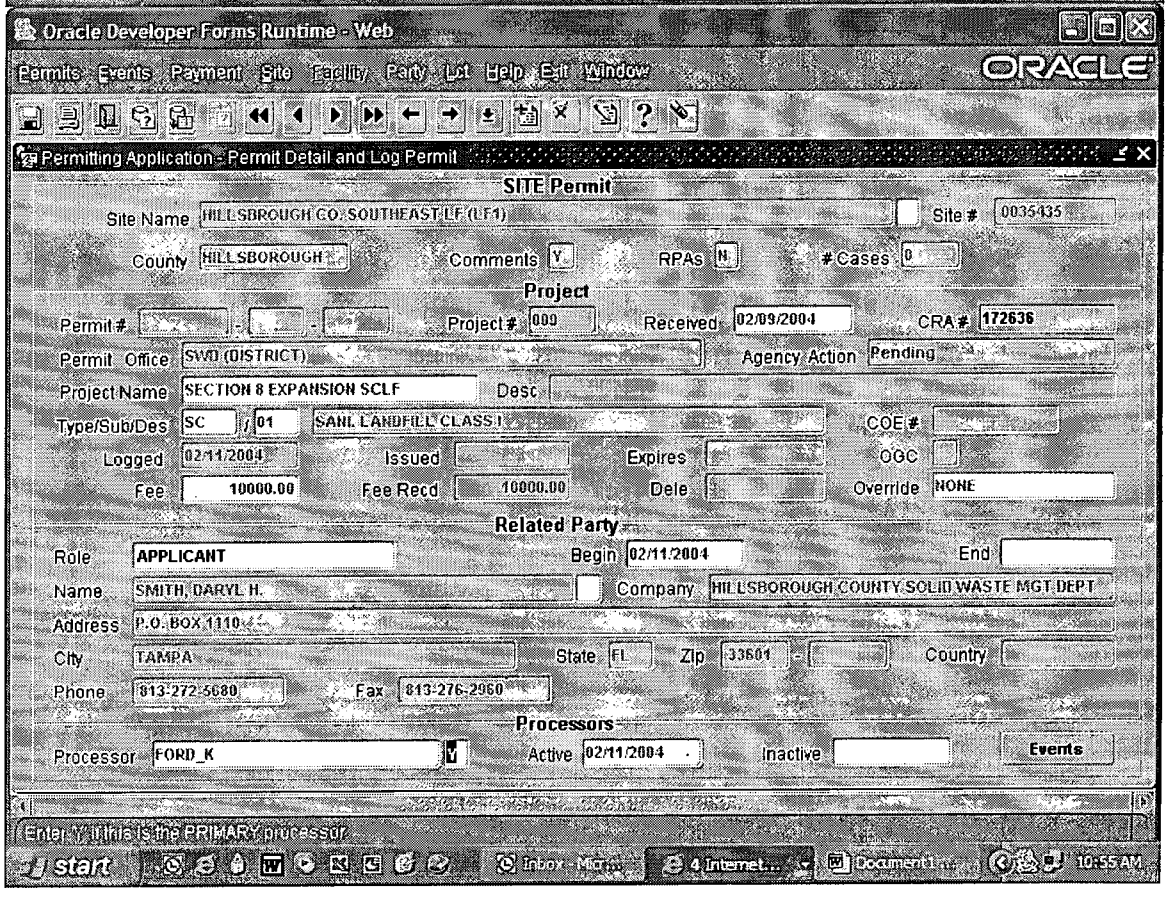
Oracle Developer Forms Runtime - Web
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ORACLE
Permitting Application - Permit Detail and Log Permit
SITE Permit
Site Name HILLSBOROUGH CO. SOUTHEAST LF (LF1)
Site # 0035435
County HILLSBOROUGH
Comments Y
RPAs N
Cases 0
Project
Permit #
Project # 009
Received 02/09/2004
CRA # 172636
Permit Office SWD (DISTRICT)
Agency Action Pending
Project Name SECTION 8 EXPANSION SCLF
Desc
Type/Sub/Des SC / 01 SANI LANDFILL CLASS I
COE #
Logged 02/11/2004
Issued
Expires
OGC
Fee 10000.00
Fee Recd 10000.00
Dele
Override NONE
Related Party
Role APPLICANT
Begin 02/11/2004
End
Name SMITH, DARYL H.
Company HILLSBOROUGH COUNTY SOLID WASTE MGT DEPT
Address P.O. BOX 1110
City TAMPA
State FL
Zip 33601
Country
Phone 813-272-5680
Fax 813-276-2960
Processors
Processor FORD_K
Active 02/11/2004
Inactive
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Inbox - Micro...
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10:55 AM

Sect. 8-Cert file

Memorandum

Florida Department of Environmental Protection
Solid Waste Section

TALLAHASSEE SOLID WASTE PROGRAM
TECHNICAL SUBMITTAL/DOCUMENT FORWARDING MEMO

To: **Richard Tedder, P.E.**
Date: **May 2, 2011**

Facility: **Hillsborough County Southeast Landfill**
WACS Id: **41193**

The following attached document(s)are being forwarded from the Southwest District Solid Waste Program to the Tallahassee Solid Waste Program:

These documents WILL BE/HAVE BEEN input into OCULUS by the SWD.

DOCUMENT/SUBMITTAL		**DATE**
Hillsborough County Southeast County Landfill Capacity Expansion Section 8, Certification of Construction Completion Report,… prepared by Jones Edmunds Associates	one - 3-ring binder	February 2006 (rec'd 3/3/2006)
Partial Construction Certification - Capacity Expansion Section 8… prepared by SCS Engineers	Two - 3 ring binders	9/30/05 (rec'd 3/3/06)
Southeast County Landfill Section 8 Capacity Expansion, (record drawings) prepared by Jones Edmunds Associates	Plan set (9 sheets)	February 28,2006 (rec'd 3/3/2006)

COPY/FYI ONLY X
FOR YOUR REVIEW _____
FOR YOUR REVIEW & COMMENT _____ **BY** _____

Hills SCLF Sect 7-8 OP

Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

MAY 25 2007

Mr. Hans W. Zarbock, P.E. Agent
Jones, Edmunds & Associates, Inc.
324 S. Hyde Park Ave., Suite 250
Tampa, FL 33606

RE: Notice of Intent to Issue
HCSELFCell Sections 7-9
FDEP File No.: 29-0270881-001
Hillsborough County

Dear Mr. Zarbock:

Enclosed is a Notice of Intent to Issue an Environmental Resource Permit for the project listed above.

In accordance with Section 62-343.090(2)(k), F.A.C., you are required to publish at your own expense, in a newspaper of general circulation within the affected area, a notice of proposed agency action.

Please have the attached notice, found on page 8 of the Consolidated Notice of Intent to Issue, published one time only in the legal ad section of a newspaper of general circulation in the affected area and provide proof of publication to the Department within seven (7) days of publication.

The permittee shall secure all permits required by FFWCC for the protection of all threatened and endangered wetland species of special concern located at the project site.

Please be advised that this notice does not constitute the application for or approval of a NPDES Stormwater Permit or a NPDES Stormwater Pollution Prevention Plan. For additional information regarding this matter please contact Department personnel in Tallahassee at (850) 488-0130 or toll free at (866) 336-6312.

Thank you for your interest in the permit process and in managing the natural resources of the state of Florida. If you have any questions about this process, please contact me at (813) 632-7600, extension 393.

Sincerely,

R. Douglas Hyman

R. Douglas Hyman, P.E.
Stormwater Engineer
ERP Program

Enclosure: Notice of Intent to Issue and Draft ERP Conceptual Permit

Copies furnished to:

FDEP Solid Waste Section
FDEP Industrial Wastewater Section
Hillsborough County EPC
Hans W. Zarbock, P.E., Jones, Edmunds & Associates, Inc., 324 S. Hyde Park Ave., Suite 250,Tampa, FL 33606
SWFWMD-TAMPA
DEP, Office of General Counsel
U. S. Army Corps of Engineers
Orlando Rivera, Bureau Chief, BMR-Phosphate Division, Tallahassee (e-mail)
File

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this CONSOLIDATED INTENT TO ISSUE and all copies were mailed before the close of business on 5/25/07, to the above listed persons.

FILING AND ACKNOWLEDGMENT

FILED, on this date with the designated Department Clerk, pursuant to 120.52(11), Florida Statutes, receipt of which is hereby acknowledged.

Clerk Date

E Robinson 5/25/07

Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

In the Matter of an
Application for Permit/Water Quality Certification by:

APPLICANT:
Barry M. Boldissar
Hillsborough Country Solid Waste Director
601 E, Kennedy Blvd., 24th Floor
Tampa, FL 33602

AGENT:
Mr. Hans W. Zarbock, P.E.
Jones, Edmunds & Associates, Inc.
324 S. Hyde Park Ave., Suite 250
Tampa, FL 33606

PROJECT NAME: Hillsborough County SE County Landfill (HCSELF) Cell Sections 7 - 9

FILE NO.: 29-0270881-001

COUNTY: Hillsborough

DATE of ISSUE:

Expiration Date of Construction Phase:

CONSOLIDATED NOTICE OF INTENT TO ISSUE ENVIRONMENTAL RESOURCE PERMIT

The Department of Environmental Protection gives consolidated notice of its intent to:

(a) issue an environmental resource permit under Part IV of Chapter 373, Florida Statutes (F.S.), and Title 62, Florida Administrative Code (F.A.C.) (draft copy of permit attached). Issuance of the environmental resource permit also constitutes certification of compliance with state water quality standards pursuant to section 401 of the Clean Water Act, 33 U.S.C. 1344.

Where applicable (such as activities in coastal counties), issuance of the environmental resource permit also constitutes a finding of consistency with Florida's Coastal Zone Management Program, as required by Section 307 of the Coastal Management Act.

I. DESCRIPTION OF THE PROPOSED ACTIVITY

The applicant, Mr. Barry M. Boldissar, Hillsborough Country Solid Waste Director applied on October 31, 2006, to the Department of Environmental Protection for a permit/water quality certification to modify a SWFWMD MSSW permitted existing surface water management system (SWMS) at the HCSELF. The HCSELF is a 2,300 acre site. This project involves modifications to an existing dry detention stormwater pond with effluent filtration (Basin C), which shall serve Class I landfill cell Nos. 7, 8, & 9 that at final cover shall comprise approximately 35 acres. The Basin C shall be configured under this permit to accommodate a total future contributing area to the pond of 59.7 acres (including the 35 acre project area) and shall be converted to a wet detention pond with a littoral zone relying on natural recruitment in order to treat and attenuate the runoff from cell Nos. 7, 8 & 9. Cell Nos. 7 & 8 (17 acre footprint at closure) were previously permitted by the FDEP Solid Waste section, Section 7 has already been constructed. Cell 8 has been constructed, but is not yet in operation. No construction work has begun on the approximately 18 acre landfill cell No. 9 and none is authorized previous to final ERP issuance and all other required permits (solid waste, etc.) . Also included in this project is one, a new 12 acre Section 9 Stockpile Area that will hold approximately 36,106 cubic yards (cy) of sediments and material excavated from Basin C, as Basin C is transformed into a wet detention pond (existing bottom is at 125' ngvd, while proposed bottom shall assume an elevation of 120' ngvd), and two, a new 11 acre Section 9 Rapid Re-Infiltration Dewatering Area. The stockpile and the dewatering area shall be located predominantly within the future 59.7 acre contributing area, and within the footprint of a future landfill cell(s).

Only the SWMS and the 35 acres of improvements, the stockpile and dewatering area, haul roads and all related appurtenances including designated contractor area are authorized under this permit.

The construction of the facility will not result in any impacts to wetlands or other surface waters.

The activity is located at the HCSELF on 15960 CR 672, in Section 23, Township 31S, Range 21E, Hillsborough County.

II. AUTHORITY FOR REVIEW

The Department has permitting authority under Part IV of Chapter 373, F.S., and Chapters 62-330, 62-341 and 62-343, F.A.C. The activity is not exempt from the requirement to obtain an environmental resource permit. Pursuant to Operating Agreements executed between the Department and the water management districts, as referenced in Chapter 62-113, F.A.C., the Department is responsible for reviewing this application.

III. BACKGROUND/BASIS FOR ISSUANCE

A. General

The original HCSELF (Phases I-VI), which is situated on a site previously utilized for phosphate mining operations, received SWFWMD MSSW permit No. 100300 dated December 9, 1983 and is currently in operation as authorized under FDEP solid waste permit(s). Included in the MSSW permit was a 147.2 acre "Site A" expansion. The total 59.7 acre area that shall be served by the proposed wet

detention pond is encompassed by "Site A". Upon final FDEP ERP permit issuance, the MSSW permit shall be rescinded as far as the regulation of the 59.7 acres ERP and the small portion of uplands to the north which shall be encroached upon by the new stockpile and dewatering area is concerned, and the ERP permit No. 29-0270881-001 shall assume regulatory oversight. All other Section A ERP components of the MSSW continue under the regulation of the SWFWMD.

The proposed SWMS improvements shall serve a 35 acre project area, and provide reasonable assurance that the stormwater discharges meet State of Florida water quality standards by retaining and treating the first 1" of runoff. The stockpile and the dewatering area will not contribute stormwater runoff to the SWMS.

The SWMS expansion (improvements) shall consist of a 3.03 acre (@SHGWT elevation 123.7' ngvd) and 4.1 acre (@ top of bank (TOB) elevation 130' ngvd) new wet detention basin outfitted with a 3,600 sf sedimentation basin at the inflow side of the pond. A new 1.2 acre littoral zone relying on natural recruitment concentrated at the outfall, is expected to aid in uptake of nutrients.

The peak stage in the new wet detention basin for the 25-year, 24-hour design storm was calculated at 129.19' NGVD, yielding a freeboard of approximately 0.81' below the top of berm (TOB) elevation 130' NGVD. The basin control structure shall consist of a 60" diameter standpipe with invert elevation at 125.2' ngvd. Discharge is to an existing wetland deep mine cut. The standpipe will be fitted with an oil, grease and sediment baffle. The pond will provide 5.78 acre-feet (AF) of water quality pre-treatment, which is in excess of the required 4.98 AF from the 59.7 acre total contributing area to the pond.

The control shall consist of a 5.5" diameter drawdown structure with invert at the SHGWT elevation of 123.7' ngvd and meets the requirement that less than or equal to one-half of the treatment volume is discharged in no less than 60 hours.

A 45' wide emergency spillway with a 12" layer of clean riprap at invert elevation 129' ngvd will discharge into an existing 106 acre primary mine cut, the water level of which is controlled by twin 24" culverts to the north with invert elevation of 121.77' ngvd. The emergency spillway is designed to prevent the SWMS perimeter berm from overtopping during extreme storm events. The spillway itself, and the flow path from the spillway to the adjacent wetland shall be stabilized by grass on mature sandy soils. Discharge is to an existing wetland deep mine cut.

Total applicant owned solid waste area contiguous to and including the project is 147.2 acres (Site A expansion).

The water level of the 106 acre wetland deep mine cut shall continue to be controlled by twin 24" culverts to the north with invert elevation 121.77' ngvd as in the pre-development condition. Ultimately flow shall continue to leave the County facility at the existing NPDES discharge point on Long Flat Creek via twin 48" RCPs. The site shall continue to drain to a stream tributary of Long Flat Creek and subsequently to Fishhawk Creek and the Alafia River.

No activity will take place within the 100-year flood plain.

B. Specific Regulatory Basis for Issuance

Through the above and based on the general/limiting and specific conditions to the permit, the applicant has provided affirmative reasonable assurance that the construction and operation of the activity, considering the direct, secondary and cumulative impacts, will comply with the provisions of Part IV of Chapter 373, F.S., and the rules adopted thereunder, including the Conditions for Issuance or Additional Conditions for Issuance of an environmental resource permit, pursuant to Part IV of Chapter 373, F.S., Chapters 62-330, and Sections 40D-4.301 and 40D-4.302, F.A.C. The construction and operation of the activity will not result in violations of the water quality standards set forth in Chapters 62-3, 62-4, 62-302, 62-520, 62-522, and 62-550, F.A.C. The applicant has also demonstrated that the construction of the activity, including a consideration of the direct, secondary, and cumulative impacts, is not contrary to the public interest, pursuant to paragraph 373.414(1)(a), F.S.

IV. PUBLICATION OF NOTICE

The Department has determined that the proposed activity, because of its size, potential effect on the environment or the public, controversial nature, or location, is likely to have a heightened public concern or likelihood of request for administrative proceedings. Therefore, pursuant to Section 373.413(4), F.S., and paragraph 62-343.090(2)(k), F.A.C., you (the applicant) are required to publish at your own expense the enclosed notice of this Consolidated Notice of Intent to Issue. The notice is required to be published one time within 30 days, in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. The applicant shall provide proof of publication to:

Department of Environmental Protection
Environmental Resource Management Program
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926
phone 813/632-7600

The proof of publication shall be provided to the above address within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time shall be grounds for denial of the permit.

V. RIGHTS OF AFFECTED PARTIES

Under this intent to issue, the permit is hereby granted subject to the applicant's compliance with any requirement in this intent to publish notice of this intent in a newspaper of general circulation and to provide proof of such publication in accordance with section 50.051 of the Florida Statutes. This action is final and effective on the date filed with the Clerk of the Department unless a sufficient petition for an administrative hearing is timely filed under sections 120.569 and 120.57 of the Florida Statutes as provided below. If a sufficient petition for an administrative hearing is timely filed, this intent to issue automatically becomes only proposed agency action on the application, subject to the result of the administrative review process. Therefore, on the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. When proof of publication is provided, if required by this intent, and if a sufficient petition is not timely filed, the permit will be issued as a

ministerial action. Because an administrative hearing may result in the reversal or substantial modification of this action, the applicant is advised not to commence construction or other activities until the deadlines noted below for filing a petition for an administrative hearing or request for an extension of time have expired and until the permit has been executed and delivered.

Mediation is not available.

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received by the clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Under rule 62-110.106(4) of the Florida Administrative Code, a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, before the applicable deadline. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon. If a request is filed late, the Department may still grant it upon a motion by the requesting party showing that the failure to file a request for an extension of time before the deadline was the result of excusable neglect.

If a timely and sufficient petition for an administrative hearing is filed, other persons whose substantial interests will be affected by the outcome of the administrative process have the right to petition to intervene in the proceeding. Intervention will be permitted only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

In accordance with rule 62-110.106(3), Florida Administrative Code, petitions for an administrative hearing by the applicant must be filed within 21 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within 21 days of publication of the notice or within 21 days of receipt of the written notice, whichever occurs first. Under section 120.60(3) of the Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within 21 days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition for an administrative hearing within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;

(c) A statement of when and how the petitioner received notice of the agency 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, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;

(f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action; and

(g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301.

Under sections 120.569(2)(c) and (d) of the Florida Statutes, a petition for administrative hearing must be dismissed by the agency if the petition does not substantially comply with the above requirements or is untimely filed.

This intent to issue constitutes an order of the Department. Subject to the provisions of paragraph 120.68(7)(a) of the Florida Statutes, which may require a remand for an administrative hearing, the applicant has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000; 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 when the order is filed with the Clerk of the Department. The applicant, or any party within the meaning of section 373.114(1)(a) or 373.4275 of the Florida Statutes, may also seek appellate review of the order before the Land and Water Adjudicatory Commission under section 373.114(1) or 373.4275 of the Florida Statutes. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when the order is filed with the Clerk of the Department.

Executed in Temple Terrace, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Deborah A. Getzoff
District Director
Southwest District

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF INTENT TO ISSUE PERMIT

The Department of Environmental Protection gives notice of its intent to issue an Environmental Resource Permit (File No. 29-0270881-001) to Mr. Barry M. Boldissar, Hillsborough Country Solid Waste Director for a permit/water quality certification for an expansion of an existing class I Waste Disposal facility known as the Hillsborough County Southeast County Landfill (HCSELF).

The activity is located at the Hillsborough Southeast County Landfill, on 15960 CR 672, in Section 23, Township 31S, Range 21E, Hillsborough County, Florida.

The expansion shall include modifications to an existing dry detention with effluent filtration stormwater pond (Basin C) and all related stormwater structures. The modifications shall mainly consist of the conversion of the stormwater pond to an approximately 3 acre wet detention stormwater pond that shall provide stormwater pre-treatment and attenuation for Class I landfill cell Nos. 7, 8 & 9 which at final cover shall total approximately 35 acres in area. Also included in the landfill expansion is a new 12 acre Stockpile Area which will hold approximately 36,106 cy of dredged material from Basin C, and a new 11 acre Rapid Re-Infiltration Dewatering Area that shall serve as a dewatering basin for any groundwater dewatered from Basin C as a result of its transformation to a wet detention stormwater pond. These structures shall be located approximately 1,200 feet to the north, outside of the 35 acre project area, but within the existing total 2,300 acre HCSELF site, which includes the 35 acre project area.

The construction and operation of the facility is not expected to result in any impacts to the on-site wetlands or other surface waters.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, within 21 days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information: (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g)

A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 21 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-106.111(2), F.A.C.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926.

Florida Department of
Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

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ENVIRONMENTAL RESOURCE PERMIT

APPLICANT:
Barry M. Boldissar
Hillsborough Country Solid Waste Director
601 E, Kennedy Blvd., 24th Floor
Tampa, FL 33602

AGENT:
Mr. Hans W. Zarbock, P.E.
Jones, Edmunds & Associates, Inc.
324 S. Hyde Park Ave., Suite 250
Tampa, FL 33606

PROJECT NAME: Hillsborough County Southeast County Landfill (HCSELF) Cell Sections 7-9

FILE NO.: 29-0270881-001

DATE of ISSUE:

COUNTY: Hillsborough

EXPIRATION DATE of CONSTRUCTION PHASE:

This permit is issued under the authority of Part IV of Chapter 373, F.S., and Title 62, Florida Administrative Code (F.A.C.). The activity is not exempt from the requirement to obtain an environmental resource permit. Pursuant to Operating Agreements executed between the Department and the water management districts, as referenced in Chapter 62-113, F.A.C., the Department is responsible for reviewing and taking final agency action on this activity.

This permit also constitutes a finding of consistency with Florida's Coastal Zone Management Program, as required by Section 307 of the Coastal Management Act.

This permit also constitutes certification compliance with water quality standards under Section 401 of the Clean Water Act, 33 U.S.C. 1341.

As staff to the Board of Trustees, the Department has reviewed the activity described below, and has determined the activity is not on state-owned

submerged lands. Therefore, your project is exempt from the further requirements of Chapter 253, Florida Statutes.

A copy of this authorization has also been sent to the U.S. Army Corps of Engineers (USACOE) for review. The USACOE may require a separate permit. Failure to obtain this authorization prior to construction could subject you to enforcement action by that agency. You are hereby advised that authorizations also may be required by other federal, state, and local entities. This authorization does not relieve you from the requirements to obtain all other required permits and authorizations.

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The above named permittee is hereby authorized to construct the work 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. This permit is subject to the limits, conditions, and locations of work shown in the attached drawings, and is also subject to the attached one through **25** General Conditions and one through **41** Specific Conditions, which are a binding part of this permit. You are advised to read and understand these drawings and conditions prior to commencing the authorized activities, and to ensure the work is conducted in conformance with all the terms, conditions, and drawings. If you are utilizing a contractor, the contractor also should read and understand these drawings and conditions prior to commencing the authorized activities. Failure to comply with all drawings and conditions shall constitute grounds for revocation of the permit and appropriate enforcement action.

Operation of the facility is not authorized except when determined to be in conformance with all applicable rules and with the general and specific conditions of this permit/certification/authorization, as specifically described below.

ACTIVITY DESCRIPTION:

This project involves modifications to an existing dry detention stormwater pond (basin) with effluent filtration (Basin C), which shall serve HCSELF Class I landfill cell Nos. 7, 8, & 9 that at final cover shall comprise approximately 35 acres. The Basin C shall be converted to a wet detention pond with a littoral zone relying on natural recruitment in order to treat and attenuate the runoff from cell Nos. 7, 8 & 9. In addition, the pond can accommodate a total future contributing area of 59.7 acres to the pond. Cell Nos. 7 & 8 (17 acre footprint at closure) were previously permitted by the FDEP Solid Waste section. Section 7 has already been constructed. Cell 8 has been constructed, but is not yet in operation. No construction work has begun or is authorized on what will become 18 acre landfill cell No. 9. Also included in this project is a new 12 acre Stockpile Area that will hold approximately 36,106 cubic yards (cy) of sediments and material excavated from Basin C as it is transformed into a wet detention pond (existing bottom is at 125' ngvd, while proposed bottom shall assume an elevation of 120' ngvd), and a new 11 acre Rapid Re-Infiltration Dewatering Area. The stockpile and the dewatering area shall be located predominantly within the future 59.7 acre contributing area footprint, and in the footprint of future landfill cell(s).

Only the SWMS and the 35 acres of improvements, the stockpile and dewatering area, haul roads and all related appurtenances, including the designated contractor area are authorized under this permit.

The proposed SWMS improvements shall serve a 35 acre project area, and provide reasonable assurance that the stormwater discharges meet State of Florida water quality standards by retaining and treating the first 1" of runoff from the 597 acre contributing area. The stockpile and the dewatering area shall not contribute stormwater runoff to the SWMS.

The system is designed to treat in excess of the first one inch of runoff from the 59.7 future contributing area (including the 35 acre project area), and provide attenuation for the 25 year, 24-hour design storm event in order to meet the requirement that the peak post development discharge rate from

the new 60" diameter standpipe to the mine cut (82.5 cfs) is less than or equal to the pre-development peak discharge rate into the adjacent wetland deep mine cut (171 cfs). The pre-development condition employed for this simulation was a large mining sand pile.

A new emergency spillway is designed to prevent the SWMS perimeter berm from overtopping during extreme storm events and is designed to discharge to the adjacent wetland deep mine cut. The spillway itself, and the flow path from the spillway to the adjacent wetland shall be stabilized by grass on mature sandy soils.

No activity will take place within the 100-year flood plain.

The facility is as shown on drawings B-1 thru B-4 and B-6, entitled "Hillsborough County Solid Waste Management Department Southeast County Landfill" and received at the Department on February 9, 2007, and Sheet Nos. B-5, 4, 4A and 4B entitled "Hillsborough County Solid Waste Management Department Southeast County Landfill", prepared by Jones and Edmunds, Inc. and received on May 10, 2007.

ACTIVITY LOCATION:

The project is located at the HCSELF on 15960 CR 672, in Section 23, Township 31S, Range 21E, Hillsborough County.

GENERAL CONDITIONS:

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1. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.

2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by Department staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

3. Activities approved by this permit shall be conducted in a manner which does not cause violations of state water quality standards. The permittee shall implement best management practices for erosion and a pollution control to prevent violation of state water quality standards. Temporary erosion control shall be implemented prior to and during construction and permanent control measures shall be completed within 7 days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into the receiving waterbody exists due to the permitted work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

4. Water quality data for the water discharged from the permittee's property or into the surface waters of the state shall be submitted to the Department as required by the permit. Analyses shall be performed according to procedures outlined in the current edition of Standard Methods for the Examination of Water and Wastewater by the American Public Health Association or Methods for

Chemical Analyses of Water and Wastes by the U.S. Environmental Protection Agency. If water quality data are required, the permittee shall provide data as required on volumes of water discharged, including total volume discharged during the days of sampling and total monthly volume discharged from the property or into surface waters of the state.

5. Department staff must be notified in advance of any proposed construction dewatering. If the dewatering activity is likely to result in offsite discharge or sediment transport into wetlands or surface waters, a written dewatering plan must either have been submitted and approved with the permit application or submitted to the Department as a permit prior to the dewatering event as a permit modification. The permittee is advised that the rules of the Southwest Florida Water Management District state that a water use permit may be required prior to any use exceeding the thresholds in Chapter 40D-2, F.A.C.

6. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.

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

8. The permittee shall complete construction of all aspects of the surface water management system, including wetland compensation (grading mulching, planting), water quality treatment features, and discharge control facilities prior to beneficial occupancy or use of the development being served by this system.

9. The following shall be properly abandoned and/or removed in accordance with the applicable regulations:

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a. Any existing wells in the path of construction shall be properly plugged and abandoned by a licensed well contractor.

b. Any existing septic tanks on site shall be abandoned at the beginning of construction.

c. Any existing fuel storage tanks and fuel pumps shall be removed at the beginning of construction.

10. All surface water management systems shall be operated to conserve water in order to maintain environmental quality and resource protection; to increase the efficiency of transport, application and use; to decrease waste; to minimize unnatural runoff from the property and to minimize dewatering of offsite property.

11. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the Department a written notification of commencement using an "Environmental Resource Permit Construction Commencement" notice (Form No. 62-343.900(3), F.A.C.) indicating the actual start date and the expected completion date.

12. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the occupation of the site or operation of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government or other responsible entity.

13. Within 30 days after completion of construction of the permitted activity, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing the required "Environmental Resource Permit As-Built Certification by a Registered Professional" (Form No. 62-343.900(5), F.A.C.), and "Request for Transfer of Environmental Resource Permit Construction Phase to Operation Phase" (Form 62-343-900(7), F.A.C.). Additionally, if deviations from the approved drawings are discovered during the certification process the certification must be accompanied by a copy of the approved permit drawings with deviations noted.

14. This permit is valid only for the specific processes, operations and designs indicated on the approved drawings or exhibits submitted in support of the permit application. Any substantial deviation from the approved drawings, exhibits, specifications or permit conditions, including construction within the total land area but outside the approved project area(s), may constitute grounds for revocation or enforcement action by the Department, unless a modification has been applied for and approved. Examples of substantial deviations include excavation of ponds, ditches or sump areas deeper than shown on the approved plans.

15. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of the conditions herein, the Department determines the system to be in compliance with the permitted plans, and the entity approved by the Department accepts responsibility for operation and maintenance of the system. The permit may not be transferred to the operation and maintenance entity approved by the Department until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the Department, the permittee shall request transfer of the permit to the responsible operation and maintenance entity approved by the Department, if different from the permittee. Until a transfer is approved by the Department pursuant to Section 62-343.110(1)(d), F.A.C., the permittee shall be liable for compliance with the terms of the permit.

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16. Should any other regulatory agency require changes to the permitted system, the Department shall be notified of the changes prior to implementation so that a determination can be made whether a permit modification is required.

17. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations including a determination of the proposed activities' compliance with the applicable comprehensive plan prior to the start of any activity approved by this permit.

18. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and Chapter 40D-4 or Chapter 40D-40, F.A.C.

19. The permittee is hereby advised that Section 253.77, F.S., states that a person may not commence any excavation, construction, other activity involving the use of sovereign or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

20. The permittee shall hold and save the Department harmless from any and all damages, claims, or liabilities which may arise by reason of the activities authorized by the permit or any use of the permitted system.

21. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under section 373.421(2), F.S., provides otherwise.

22. The permittee shall notify the Department in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of section 62-343.130, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.

23. Upon reasonable notice to the permittee, Department authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with Department rules, regulations and conditions of the permits.

24. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the Department and the Florida Department of State, Division of Historical Resources.

25. The permittee shall immediately notify the Department in writing of any previously submitted information that is later discovered to be inaccurate.

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SPECIFIC CONDITIONS:

1. All submittals required herein shall be directed to:

Department of Environmental Protection
Environmental Administrator
Submerged Lands & Environmental Resources
Southwest District
13051 N. Telecom Parkway
Temple Terrace, Florida 33637-0926

hereafter referred to as "the Department". Such submittals include, but are not limited to, record drawings, progress reports, mitigation monitoring reports and water quality monitoring reports.

All submittals shall include the permittee's name and permit number.

2. The permittee shall be aware of and operate under #1 through #25 of the attached General/Limiting Conditions for Environmental Standard General and Individual Permits". General/Limiting Permit Conditions are binding upon the permittee and enforceable pursuant to Chapter 403 of the Florida Statutes.

3. If the approved permit, drawings and the Specific Conditions contradict each other, then the Specific Conditions shall prevail.

4. In the event that the permittee files for bankruptcy prior to completion of all work permitted and required by this permit, the permittee must notify the Department within 30 days of filing. The notification shall identify the bankruptcy court and case number and shall include a copy of the bankruptcy petition.

5. The permittee is hereby advised that Florida law states: "No person shall commence any excavation, construction, or other activity involving the use of sovereign or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund or the Department of Environmental Protection under Chapter 253, until such person has received from the Board of Trustees of the Internal Improvement Trust Fund the required lease, license, easement, or other form of consent authorizing the proposed use." Pursuant to Rule 18-14.002(1), Florida Administrative Code, if such work is done without consent, or if a person otherwise damages state land or products of state land, the Board of Trustees may levy administrative fines of up to $10,000 per offense.

6. The structure/work authorized by this permit shall not be placed/conducted on any property, other than that owned by the permittee, without the prior written approval of that property owner.

7. The permittee is responsible for retaining a professional engineer registered in the State of Florida to certify that the construction of the project is in compliance with the approved permit plans.

8. Subsequent to the selection of the contractor to perform the authorized activity and prior to the initiation of work authorized by this permit, the permittee, (or authorized agent) and the contractor, shall attend a pre-construction conference with a representative of the Department's Submerged Lands and Environmental Resources staff. The permittee shall notify the Department in writing subsequent to contractor selection to request scheduling of the subject conference.

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9. Progress reports for the project shall be submitted to the Department beginning July 1, 2007, and shall continue to be submitted quarterly until construction of the permitted project is completed. The cover page shall indicate the permit number, project name and the permittee name. Progress reports must be submitted to the Department if there is no ongoing construction. Reports shall include the current project status and the construction schedule for the following quarter. The report shall include the following information:

a. Date permitted activity was begun; if work has not begun on-site, please indicate.

b. Brief description and extent of the work (i.e., construction, dredge, fill, management, sampling, maintenance) completed since the previous report or since the permit was

issued. Show on copies of the permit drawings those areas where work has been completed.

c. Brief description and extent of the work (i.e. construction, dredge, fill, monitoring, management, sampling, maintenance) anticipated in the next quarter. Indicate on copies of the permit drawings those areas where it is anticipated that work will be done.

d. This report shall include on the first page, just below the title, the certification of the following statement by the individual who supervised preparation of the report: "This report represents a true and accurate description of the activities conducted during the quarter period covered by this report."

10. All drawings, record drawings, land surveys and as-built surveys required herein shall be certified by a Professional Engineer or Registered Land Surveyor, as appropriate, registered in the State of Florida.

11. In addition to the forms required in General Condition #13, the permittee shall submit two copies of signed, dated and sealed as-built drawings to the Department for review and approval within 30 days of completion of construction. The as-built drawings shall be based on the Department permitted construction drawings, which shall be revised (i.e., "red-lined") to reflect any changes made during construction. Both the original design and constructed elevation must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawings. All surveyed dimensions and elevations required shall be verified and signed, dated and sealed by a Florida registered surveyor or engineer. Record drawings shall include the invert elevations of all culverts and controlling elevations of all permitted structures as shown in the permitted drawings. *As-builts shall be submitted to the Department regardless of whether or not deviations are present. In addition to the "As-built Certification" form, the permittee shall submit the "Request for Transfer of Environmental Resource Permit Construction Phase to Operation Phase" form as required in General Condition #13.*

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The following information shall be verified on the as-built drawings:

From the engineered, signed and sealed full sized drawings:
Mr. Joseph H. O'Neill, P.E. # 52049
February 9, 2007

Plan View/Cross-Section	Sheet/ Page Number
Basin C Modification Section and Details	Sheet B-6

1. All

From the engineered, signed and sealed full sized drawings:
Mr. Joseph H. O'Neill, P.E. # 52049
May 10, 2007

Plan View/Cross-Section	Sheet/ Page Number
Basin C Modification Grading Plan	Sheet B-5

1. Wet Detention Basin C
2. Sedimentation Basin in Basin C
3. Modified Standpipe
4. Overflow Spillway

Section 9 Capacity Expansion Facility Site Plan	Sheets 4, 4A, 4B

1. Section 9 Stockpile Area (stockpile)
2. Section 9 Rapid Re-Infiltration Dewatering Area

3. Haul Routes

12. Best management practices for erosion control shall be implemented prior to construction commencement and shall maintained at all times during construction to prevent siltation and turbid discharges in excess of State water quality standards pursuant to Rule 62-302, F.A.C. Methods shall include, but are not limited to the use of staked hay bales, staked filter cloth, sodding, seeding, staged construction and the installation of turbidity screens around the immediate project site.

In addition, if the landfill entrance connects to a public roadway, an anti-tracking BMP shall be installed in accordance with the Florida Stormwater Sediment and Erosion Control Inspector's Manual. All haul roads shall be stabilized with an appropriate clean non-asphaltic surface (clean lime rock, clean gravel, for example) when and where required for suppression of sediment-laden discharges into wetlands.

The contractor equipment staging area shall incorporate BMPs that will be utilized to prevent spills or leaks from vehicles and equipment. Silt fencing or a small berm will be placed around the contractor staging area, silt fencing or a small berm shall be installed around the contractor material storage area, and BMPS installed for erosion control from all roads to and from Basin C and the stockpile area and to and from the proposed soil recovery area haul road and the cells 7-9. Appropriate BMPS shall be employed around the stockpile, and rapid infiltration basin (dewatering area) (if needed) to prevent offsite discharges. The contractor staging area, contractor material storage area, all haul routes, roads, wet detention Basin C, and the stockpile / dewatering area and erosion control notes and BMPs are depicted on sheet B-6 dated February 9, 2007, and on DWG Nos. 4, 4A, 4B labeled "Section 9 Capacity Expansion Facility Site Plan" dated May 10, 2007 of the attached permit drawings, and located on sheet B-5 labeled "Basin C Modification Grading Plan" dated May 10, 2007. Erosion control methods shall be implemented prior to construction as depicted in the general notes section on Sheet B-2, item Nos. 19-22, of Jones-Edmunds Inc., Job #08449-021-01 dated February 9, 2007 of the attached permit drawings, attached hereto and incorporated herein.

13. This permit only authorizes the permitted activities on the 35 acre project area as well as construction, operation and proper demobilization of the 12 acre Section 9 Stockpile Area and 11 acre Section 9 Rapid Re-Infiltration Dewatering Area that are almost exclusively outside the 59.7 acre contributing area, but within the 2,300 acre contiguous County owned landfill. Work on future landfill cell phases beyond Cell # 9 shall require both a conceptual permit and an individual or standard general permit for the particular phase contemplated.

14. Areas of exposed soils shall be isolated from surface waters and wetlands to prevent erosion and deposition of these soils into State waters during permitted activities.

15. Storage or stockpiling of tools, materials (i.e., lumber, pilings, debris.) within wetlands, along the shoreline within the littoral zone or elsewhere within waters of the state is prohibited. Stockpiling material, waste or overburden in the vicinity of wetlands or other surface waters is prohibited.

16. The permittee shall be responsible for ensuring erosion control devices/procedures are inspected and maintained daily during all phases of construction authorized by this permit until areas disturbed during construction are sufficiently stabilized to prevent erosion, siltation, and turbid discharges.

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The following measures shall be taken immediately by the permittee when turbidity levels within waters of the State surrounding the project site, exceed 29 NTUs above background:

a. Immediately cease work contributing to the water quality violation.

b. Stabilize exposed soils contributing to the violation. Modify the work procedures responsible for the violation, install additional turbidity containment devices and repair non-functioning turbidity containment devices.

c. Notify the Department within 24 hours of the time the violation is first detected.

17. Wetland areas or water bodies, which are outside the specific limits of construction authorized by this permit, must be protected from erosion, siltation, scouring and/or dewatering. There shall be no discharge in violation of the water quality standards in Chapter 62-302, Florida Administrative Code. Turbidity/erosion controls shall be installed prior to clearing, excavation or placement of fill material, shall be maintained until construction is completed, disturbed areas are stabilized, and turbidity levels have fallen to less than 29 NTUs above background. The turbidity and erosion control devices shall be removed within 14 days once these conditions are met.

18. Staked filter cloth shall be positioned at the edge of the permitted fill slopes adjacent to wetlands to prevent turbid run-off and erosion.

19. Grass seed, or sod shall be installed and maintained on exposed slopes and disturbed soil areas within 48 hours of completing final grade, and at other times as necessary, to prevent erosion, sedimentation or turbid discharges into waters of the state and/or adjacent wetlands. A vegetative cover that stabilizes and prevents erosion of the fill material shall be established within 60 days of sodding or seeding. Turbidity barriers/erosion control devices shall be removed upon establishment of a substantial vegetative cover.

20. Stockpile sediment cannot be used for any purpose other than that of cell 7 –9 landfill daily cover. Authorization shall be obtained from the Department's solid waste program manager should stockpile sediment be employed for use as daily cover. The pre-development Basin C filter sand and under drain piping shall be disposed of in a location as authorized by the program manager as well.

21. "Rip rap" shall consist of unconsolidated boulders, rocks, or clean concrete rubble with no exposed reinforcing rods or similar protrusions. The riprap shall be free of sediment, debris and toxins or otherwise deleterious substances. Riprap shall have a diameter of at least 12 inches to 3 feet.

22. For wet detention ponds only: The successful establishment and survival of littoral shelf vegetation within the wet detention pond is necessary for stormwater quality treatment and permit compliance. A minimum of 35 percent littoral shelf coverage of non-nuisance native vegetation, concentrated at the outfall is required before the system will be approved and transferred to the operation phase. The successful establishment of non-emergent vegetation, such as trees and shrubs, may also be included in the littoral shelf area. Periodic replanting is required if coverage falls below the 35 percent level.

23. Signs shall be posted a minimum of every 100 feet around the perimeter of all wet detention ponds stating "**Stormwater Treatment Pond – No mowing or spraying of aquatic vegetation allowed**

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unless authorized by FDEP. Call 813/632-7600 for more information." These information signs shall be installed prior to the Transfer to Operation Phase and are required for the proper operation and maintenance of the stormwater treatment system.

24. Excavation of the Basin C wet detention pond is limited to the permitted design specifications as depicted on Sheet B6 of the drainage plans attached hereto and incorporated herein. If limestone bedrock or a clay-confining layer is encountered during construction the Department shall be immediately notified and construction in the affected area shall cease.

25. All water management structures shall be constructed of clean fill devoid of any materials or vegetative matter that would allow water to be piped through the structure. Live vegetative cover on the landfill berm shall be provided at the time of construction when the final slope is attained. Suitable and clean soils that are free of vegetation, garbage, trash, tires, hazardous, toxic waste or other materials that are suitable for construction as determined by the Department shall be used to construct / conform / contour the Basin C wet detention pond and littoral shelves.

26. The permittee shall notify the Department of any sinkhole development in the surface water management system within 48 hours after discovery and must submit a detailed sinkhole evaluation and repair plan for approval by the Department within 30 days of discovery.

27. The permitted surface water management system shall only be used for the purpose of controlling stormwater runoff from the site and shall not be used to dispose of or store any solid/liquid waste landfill cell waste or for other operational aspects of the landfill or products generated or used during operation or construction of the facility.

28. This permit does not authorize the entrenchment of water, sewer, cable or utility lines within wetlands/water bodies.

29. The Operation and Maintenance Entity shall submit inspection reports in the form required by the Department, FDEP Form # 62-343.900(6), *Inspection Certification*, in accordance with the following schedule:

(X) For systems utilizing retention and wet detention, the inspections shall be performed 24 months after operation is authorized and every 24 months thereafter.

(XX) For systems utilizing swales or retention-and-percolation, the inspections shall be performed 24 months after operation is authorized and every 18 months thereafter.

30. If during the progress of this project prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures are encountered at any time within the project site area, work should cease in the immediate vicinity of such discoveries. The permittee, or other designee, shall contact the Florida Department of State, Division of Historical Resources, Review and Compliance Section at 850/245-6333, or 800/847-7278, as well at the Department at 813/632-7600. Project activities shall not resume without verbal and/or written authorization from the Division of Historical Resources.

In the event that any unmarked human remains are encountered anywhere on the subject property, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05,

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Florida Statutes. The permittee, or other designee, should contact the authority cited in this Section. Thereafter, project activities shall not resume without verbal and/or written authorization from the designated official.

31. The authorized stormwater management system shall be completed, the signed and sealed as-builts shall be submitted to the Department for approval, and the entire system transferred to operation prior to or simultaneously with the associated landfill development. Occupation of the site shall be in accordance with General Condition 13.

32. The issuance of this Environmental Resource Permit does not constitute the review or approval of a NPDES Stormwater permit or Pollution Prevention Plan. Construction activities that disturb more than one (1) acres of land are required to obtain a NPDES/MSGP permit. Permittee is advised to contact the Department's NPDES stormwater program at (850) 245-7522 prior to the commencement of any construction.

33. The water level in the primary mine cut wetlands adjacent to the proposed Basin C wet pond shall be monitored weekly at the three NPDES water quality sampling sites in the mine cut adjacent to Basin C during the construction and dewatering phase. If a declining trend in water level is noted, then the Department shall be notified within 48 hours of discovery. In any event levels shall be provided on the progress reports cited in specific condition No. 10.

The permittee shall install two staff gauges, one outside the overflow spillway and a second in the existing pond to the west of the project site to measure water levels in the wetlands and existing surface waters. The gauges shall be monitored monthly and the data shall be submitted on a quarterly basis to the Department. A site map showing the location of the gauges shall be submitted to the Department within 30 days of permit issuance. The staff gauges shall be installed by the permittee within 30 days of permit issuance.

34. To warn personnel of safety hazards, appropriate signage shall be posted along the stockpile and dewatering area prior to utilization of these areas. The As-Built Plans shall incorporate the signage.

35. At least four (4) grab samples shall be extracted from the upper 6" soil column in the pre-development Basin dry pond with effluent filtration, per locations and sampling parameters specified in modified sheet B-5. Results shall be provided to the Department for Department review within thirty (30) days of Permit issuance, and written Department approval (letter of authorization) shall be required before material from Basin C can be authorized for transfer to the proposed stockpile. In the event that Basin C sediment sampling results indicate that the Basin C sediments may result in a violation of surface water (or ground water) parameter(s), the Department shall work with the permittee to determine whether modifications to the stockpile design shall be required.

In the event that the current stockpile design is acceptable (Department provides permittee with a letter of authorization that becomes a part of the permit) after a determination that the grab samples are sufficient in number (more than 4 samples may be required), taken at the correct locations and at the correct depths and sampled for the specified parameters, and the results are deemed satisfactory, the sediment and groundwater removal operations from the pre-development Basin C may commence with sediments to be contained on the stockpile footprint located just north of the proposed 35 acre project area, (not to exceed 12 acre footprint). The BMPS shall prevent sedimentatious or turbid discharges from entering wetlands or other surface waters, including the deep mine cut, and wetlands immediately to the north. Minimum set back distances as indicated on the drainage plans shall be maintained.

DRAFT

The Basin C dewatering system shall consist of a pump and pipe system to convey the dewatered water to the dewatering area. Water will percolate into deep sand with no surface return water. The permittee shall provide the Department with adequate assurances that there are no raw water wells within the radius of influence of the dewatering area within 30 days of permit issuance and written Department approval (letter of authorization) shall be required before dewatering operations may commence. The BOT of the 11 acre new dewatering area at existing grade shall be at or above approximately 130' NGVD. SHGWT elevation is estimated at below 120' NGVD. A freeboard of at least 6" shall be maintained in order to prevent overtopping or off-site discharge from the dewatering area during dewatering of Basin "C". The dewatering area shall be maintained otherwise in accordance with the notes on plan sheet 4A.

The following measures shall be taken immediately by the permittee if Surface Water parameters such as benzene within surface waters surrounding the project site, exceed State water quality standards pursuant to Rule 62-302, F.A.C.:

a. Immediately cease work contributing to the water quality violation.

b. Notify the Department within 24 hours of the time the violation is first detected.

Utilization of the stockpile and dewatering area is authorized by this permit for a maximum period not to exceed one year. After which time the permittee shall provide the Department with AS-Builts indicating restoration to the pre-use state within 90 days of decommission.

Within 90 days of permit issuance the permittee shall provide the Department with a copy of the stockpile and dewatering area decommissioning plan that can be undertaken without resulting in long-term surface or ground water impacts.

36. The permittee shall construct the surface water management system prior to any land clearing, grading, or operational activities within the project area. During construction and operational activities the permittee shall ensure that the SWMS shall be kept free of solid waste material at all times and the permittee shall operate and maintain the SWMS in such a manner, which will ensure that no adverse off-site water quality impacts will occur.

37. No grading, grubbing or site clearing, etc., is authorized without ERP Permit issuance. Soils and fines recovered from construction and demolition debris shall be stored at least 200' from any water body including the Basin C pond, and all wetlands. Recovered fines shall not be utilized as berms for the SWMS. Recycled material and incoming waste shall not be stored or disposed of or in contact with ground water or surface water. The Waste tire chip storage pads are not authorized under this permit and runoff shall not directed to any component of the authorized SWMS or to any locale in the 59.7 acre project area.

38. Leachate, as defined by Chapter 62-701, F.A.C., shall not enter or mix with stormwater. Stormwater containing leachate shall be treated as leachate. Operation of the facility shall be in accordance with Chapter 62-701, F.A.C.

39. A Department Industrial Wastewater dewatering permit shall be required if ground water or contaminated storm water is discharged to a surface water body including the on-site storm water system. Use of the wet detention basin for consumptive use including irrigation is not authorized by this permit.

40. Borrow pit construction is not authorized by this ERP.

DRAFT

41. The SWMS is designed and constructed to comply with certain environmental protection criteria. Maintenance of the storm water system is the responsibility of Hillsborough County Utilities to ensure that that the storm water management system is functioning as designed. In addition to the O & M requirements of the Facility Operation and Maintenance (O & M) Plan Basin "C" Capacity Expansion Area (Sections 7, 8, and 9) attached hereto and incorporated herein, this permit shall guide the care of the SWMS.

Sediments and debris removed from the SWMS shall be properly "processed" for final disposal into an approved facility. The permittee shall follow Department guidelines regarding the proper disposal of stormwater sediments. The complete report is available at this web site: http://www.dep.state.fl.us/water/nonpoint/docs/nonpoint/May04StSweepGuidance.pdf
Inspections and O & M activities shall be recorded by facility personnel who have received storm water training, and records maintained at the site shall be available for all on-site inspections by Department staff. In addition, the facility shall be kept in a clean condition, through the implementation of good housekeeping practices.

END OF SPECIFIC CONDITIONS

SENDER: ISSUED PERMIT MOD 43543-012-SO/MM

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b. to existing 35435-006-SO
- Print your name and address on the reverse of this form so that we can return this card to you. Hills SELF Sect. 8
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write *"Return Receipt Requested"* on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Hillsborough County
Solid Waste Management Department
c/o **Mr. Barry Boldissar**, Director
PO Box 1110
Tampa, FL 33601

4a. Article Number
7004 0750 0003 0516 4981

4b. Service Type
☐ Registered ☒ Certified
☐ Express Mail ☒ Insured
☒ Return Receipt for Merchandise ☒ COD

7. Date of Delivery
AUG 10 2006

5. Received By: *(Print Name)*
CLERK OF CIRCUIT COURT
MAIL SERVICES

8. Addressee's Address *(Only if requested and fee is paid)*

6. Signature: *(Addressee or Agent)*

PS Form **3811,** December 1994 Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Retu ceipt Service.

UNITED STATES POSTAL SERVICE

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Florida Department of Environmental Protection
Southwest District
c/o Susan Pelz – Solid Waste
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
AUG 11 2006
SOUTHWEST DISTRICT
TAMPA

Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926
Telephone: 813-632-7600

Jeb Bush
Governor

Colleen M. Castille
Secretary

Mr. Barry Boldissar, Director
Hillsborough County
Solid Waste Management Department
PO Box 1110
Tampa, Fl. 33601

August 29, 2006

RE: Hillsborough County Southeast County Landfill
Permit No.: 35435-009-SC, Class I LF Construction
Certification of Construction Completion
Section 8 (approximately 6.8 acres)

Dear Mr. Boldissar:

The Department has reviewed the following information submitted to demonstrate that Section 8 of the Southeast County Class I landfill was built in substantial conformance with the conditions of the above-referenced permit and Department rules:

1. Partial Construction Certification Report - Capacity Expansion Section 8,… dated September 30, 2005 (received March 3, 2006)(two 3-ring binders), prepared by SCS Engineers;

2. Hillsborough County Southeast County Landfill Capacity Expansion Section 8, Certification of Construction Completion Report,… dated February 2006 (received March 3, 2006) (one 3-ring binder), prepared by Jones, Edmunds & Associates [JEA] (including information subsequently amended, revised or replaced, pages inserted into original as appropriate);

3. Hillsborough County Southeast County Landfill Capacity Expansion Section 8, Certification of Construction Completion Report, Response to DEP Request for Additional Information,… dated May 2006 (received May 2, 2006) (one 3-ring binder and information inserted into Ref. 2 above), prepared by JEA;

4. Response to Request for Additional Information,… dated July 24, 2006 (received July 24, 2006) (spiral bound document, information inserted into Ref #2 as appropriate), prepared by JEA;

5. "Section 8-Leachate Pipe Profiles," information received via email August 22, 2006, prepared by JEA (inserted into Ref. 4, above);

6. Plan sheets titled, Southeast County Landfill Section 8 Capacity Expansion Construction Drawings, February 28, 2006,… (received March 3, 2006) (9 sheets), prepared by JEA, including revised Sheets 4 and 5 received May 2, 2006 and Sheet 9 received July 24, 2006; and

7. Pickett & Associates topographic surveys showing soil test locations, revised March 30, 2005 (received May 2, 2006), (18 sheets).

Based on the information submitted, the Department Solid Waste Section **approves** the certification documentation and operation of Section 8 in accordance with modified permit 35435-007-SO (includes modification #35435-010-SO/01). Please be reminded that this approval does not relieve the permittee from compliance with other Department rules or facility permits. If you have any questions, please contact me at (813) 632-7600 ext. 386, or susan.pelz@dep.state.fl.us.

Sincerely,

Susan J. Pelz, P.E.
Solid Waste Manager
Southwest District

sjp
cc: Patty Berry, Hillsborough Co, PO Box 1110, Tampa, Fl. 33601
Joe O'Neill, P.E., JEA, 324 S. Hyde Park Ave., Ste. 250, Tampa, Fl. 33606
Ray Dever, P.E., SCS Engineers, 3012 US Highway 301 North, Ste. 700, Tampa, Fl. 33619
Richard Tedder, P.E., FDEP Tallahassee
Fred Wick, FDEP Tallahassee
Ted Murray, FDEP ERP, Tampa
Steve Morgan, FDEP Tampa
Ron Cope (email)

Hills SELF
Sect 9 Constr permit

Pelz, Susan

From: Pelz, Susan

Sent: Monday, August 28, 2006 3:19 PM

To: 'Richard Siemering'

Cc: Joseph O'Neill; Don Hullings; berryp@hillsboroughcounty.org; RuizLE@hillsboroughcounty.org; Morris, John R.

Subject: RE: Southeast County Landfill, Response to RAI No. 2 Request for Time Extension

Rich,

The Department has no objection to your request.

If you have any questions, please call or email (email is better).

Susan J. Pelz, P.E.
Solid Waste Program Manager
Southwest District

13051 N. Telecom Parkway
Temple Terrace, Fl. 33637
813-632-7600 x 386
susan.pelz@dep.state.fl.us

-----Original Message-----
From: Richard Siemering [mailto:RSiemering@jonesedmunds.com]
Sent: Tuesday, August 22, 2006 9:58 AM
To: Pelz, Susan
Cc: Joseph O'Neill; Don Hullings; berryp@hillsboroughcounty.org; RuizLE@hillsboroughcounty.org
Subject: Southeast County Landfill, Response to RAI No. 2 Request for Time Extension

Ms. Pelz:

As discussed during our August 17, 2006 meeting, attached is a copy of our letter to you requesting a time extension for submitting responses to FDEP RAI No. 2 for the Section 9 Permit to Construct application. Please provide us an email approving the time extension request. Thank you.

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

Richard A. Siemering
Project Manager

Jones Edmunds
324 South Hyde Park Avenue
Suite 250
Tampa, Florida 33606
Ph. 813-258-0703
Fax 813-254-6860
Cell: 813-967-0370
Email: RSiemering@JonesEdmunds.com

JONES EDMUNDS

Dept. of Environmental Protection

AUG 24 2006

Southwest District

rec'd via email 8/22/06

August 22, 2006

Ms. Susan J. Pelz, P.E.
Florida Department of Environmental Protection
Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Subject: Construction Permit Application Submittal Extension– Response to RAI No. 2
Capacity Expansion, Section 9
Southeast County Landfill, Hillsborough County, Florida
Pending Permit No. 35435-011-SC/01
Jones Edmunds Project No. 08449-021-01

Dear Ms. Pelz:

On behalf of the Hillsborough County Solid Waste Management Department (SWMD), Jones Edmunds requests a time extension for submitting responses to the Department of Environmental Protection's (DEP) Request for Additional Information (RAI) No. 2, dated July 14, 2006. Based on the discussion during our August 17, 2006 meeting, an additional three weeks is needed to complete the responses to the subject DEP RAI. Therefore, Jones Edmunds requests a three week time extension whereby we plan on submitting the response to the Section 9 DEP RAI No. 2 on or before September 12, 2006.

Please call us if you require any clarifications or information relating to this time extension request.

Sincerely,

Richard A. Siemering
Project Manager

Joseph H. O'Neill, P.E.
Solid Waste Department Manager

cc: Patricia V. Berry, SWMD
Larry Ruiz, SWMD
Ron Cope, HCEPC

324 South Hyde Park Avenue
Suite 250
Tampa, FL 33606

813.258.0703 Phone
813.254.6860 Fax
www.jonesedmunds.com

Pelz, Susan

From: Joseph O'Neill [joneill@jonesedmunds.com]
Sent: Tuesday, August 22, 2006 3:42 PM
To: Pelz, Susan
Cc: Joseph O'Neill; Richard Siemering; Carlos Restrepo
Subject: Section 8- Leachate Pipe Profiles

Good afternoon Susan,

Per our conversation yesterday, I checked the pipe profiles to make sure that the as-built pipe elevations were used as a starting reference elevation. They are. (refer to Sec8Pipe Profiles calcs.pdf)

From the as-built elevations, the settlement numbers computed by SCS Engineers were used to determine the post-settled elevation for Section 7&8 Buildout and Site "A" Buildout.

The as-built pipe survey has numerous individual elevations and we have an exaggerated vertical scale shown on the profile hence the "wavy" profile. We only have three settlement points (as shown on the Sec8Pipe Profiles.pdf). We connected the three points with straight lines therefore there may be places in between the post-settlement points were the settled profile has the "appearance" of being "above" the initial as-built pipe profile.

I hope this helps clarify the pipe profiles.

Thanks you, please call with any questions.

Joseph H. O'Neill, P.E.
Solid Waste Department Manager

Jones Edmunds & Associates, Inc.
324 South Hyde Park Avenue Suite 250
Tampa, Florida 33606
Phone (813) 258-0703 x132
Fax (813) 254-6860
Mobile (813) 426-2613
joneill@jonesedmunds.com
www.jonesedmunds.com

-----Original Message-----
From: Carlos Restrepo
Sent: Tuesday, August 22, 2006 3:29 PM
To: Joseph O'Neill
Subject: Sec 8 Leachate Pipe Profiles

Carlos A Restrepo

Jones Edmunds & Associates
324 S. Hyde Park Avenue, Suite 250
Tampa, Florida 33606
Phone 813-258-0703
Fax 813-254-6860
crestrepo@jonesedmunds.com
www.jonesedmunds.com

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computer system in which it is received, it , responsibility of the recipient to ensure that it is virus .

JONES EDMUNDS
ENGINEERS | ARCHITECTS | SCIENTISTS

PROJECT NUMBER: 0944902001 SHEET 1 OF 2
PROJECT NAME: SEC 8
BY: CAP DATE: 22/8/06
SUBJECT: SEC 8 LEACHATE PIPE SETTLEMENTS
CHECKED BY: JHO DATE: Aug 22 2006

Settlements

Point 1

7&8 Buildout = 0.22' } See Appendix 1 Sec 8 Operations Permit Application.
Final Buildout = 0.67' } SCS Engineers Aug 2005

Point 1 (As built)
Elevation = 131.87' ✓ See Appendix 1 Sec 8 Construction Certification Report (As Built survey drawing). Jones Edmunds May 2006

7&8 Buildout = 131.87' - 0.22' = 131.65' ✓
Final Buildout = 131.87' - 0.67' = 131.2' ✓

Point 2

7&8 Buildout = 0.06' } Settlements
Final Buildout = 0.15' }
As Built EL = 133.13' ✓

7&8 Buildout = 133.13' - 0.06' = 133.07' ✓
Final Buildout = 133.13' - 0.15' = 132.98' ✓

Point 3

7&8 Buildout = -0.02' } Settlements
Final Buildout = 0.14' }
As Built EL = 135.12 ✓

7&8 Buildout = 135.12' - (-0.02') = 135.14' ✓
Final Buildout = 135.12' - 0.14 = 134.98' ✓

Point 4

7&8 Buildout = 0.36' } Settlements
Final Buildout = 0.54' }
As Built EL = 132.94' ✓

7&8 Buildout = 132.94' - 0.36' = 132.58 ✓
Final Buildout = 132.94' - 0.54' = 132.4 ✓

JONES EDMUNDS
ENGINEERS | ARCHITECTS | SCIENTISTS

PROJECT NUMBER: 08449 02001 SHEET 2 OF 2
PROJECT NAME: SEC 8
BY: CAR DATE: 22/8/06
SUBJECT: SEC 8 LEACHATE PIPE SETTLEMENTS.
CHECKED BY: JHO DATE: Aug 22, 2006

Point 5

7 & 8 Buildout = 0.09' } Settlements.
Final Buildout = 0.12' }
As Built EL = 134.81 ✓

7 & 8 Buildout = 134.81' − 0.09' = 134.72' ✓
Final Buildout = 134.81' − 0.12' = 134.69' ✓

Point 6

7 & 8 Buildout = −0.02' } Settlements
Final Buildout = 0.10' }
As Built EL = 137.03' ✓

7 & 8 Buildout = 137.03' − (−0.02') = 137.05' ✓
Final Buildout = 137.03' − 0.10 = 136.93' ✓

Point 7

7 & 8 Buildout = 0.29' } Settlements
Final Buildout = 0.28' }
As Built EL = 134.50' ✓

7 & 8 Buildout = 134.50' − 0.29' = 134.21' ✓
Final Buildout = 134.50' − 0.28' = 134.22' ✓

Point 8

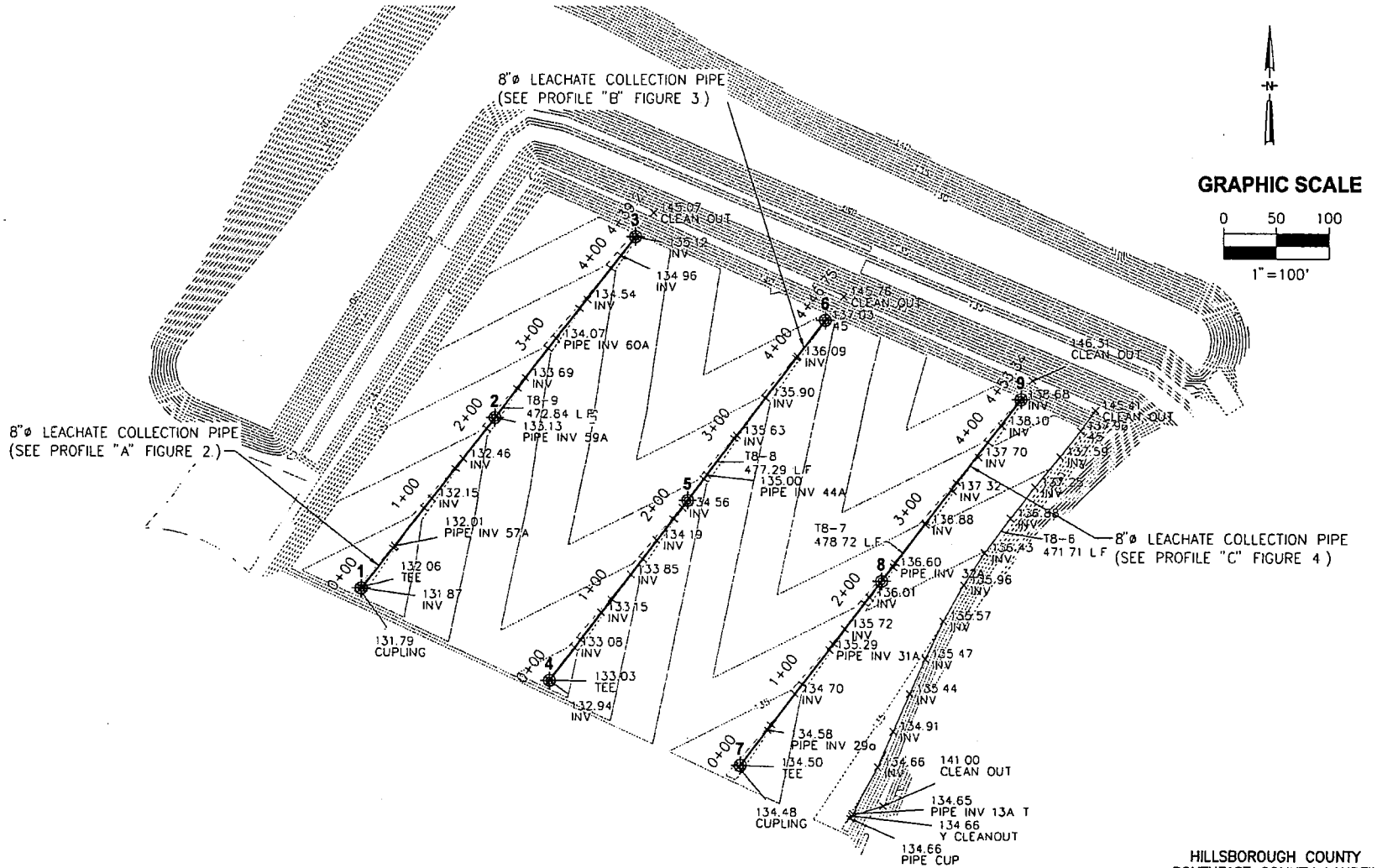
7 & 8 Buildout = 0.10' } Settlements
Final Buildout = 0.08' }
As Built EL = 136.32' ✓

7 & 8 Buildout = 136.32' − 0.10' = 136.22' ✓
Final Buildout = 136.32' − 0.08' = 136.24' ✓

Point 9

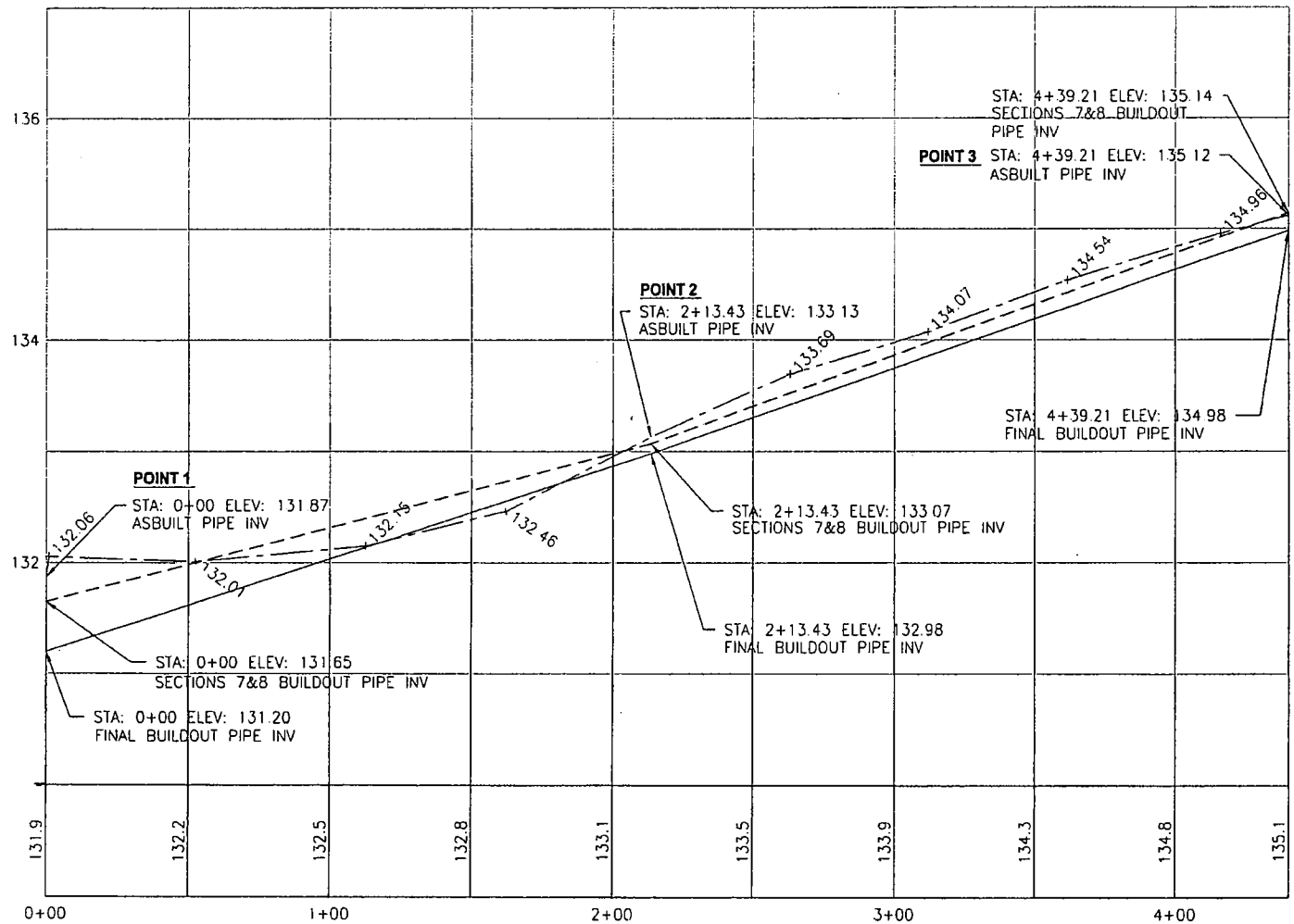
7 & 8 Buildout = −0.0052' } Settlements.
Final Buildout = 0.10' }
As Built EL = 138.68' ✓

7 & 8 Buildout = 138.68' − (−0.0052') = 138.69' ✓
Final Buildout = 138.68' − 0.10' = 138.58' ✓



HILLSBOROUGH COUNTY
SOUTHEAST COUNTY LANDFILL
SECTION 8 SITE A
LEACHATE PIPE SETTLEMENT CALCULATION
FIGURE 1. SITE PLAN

JONES EDMUNDS

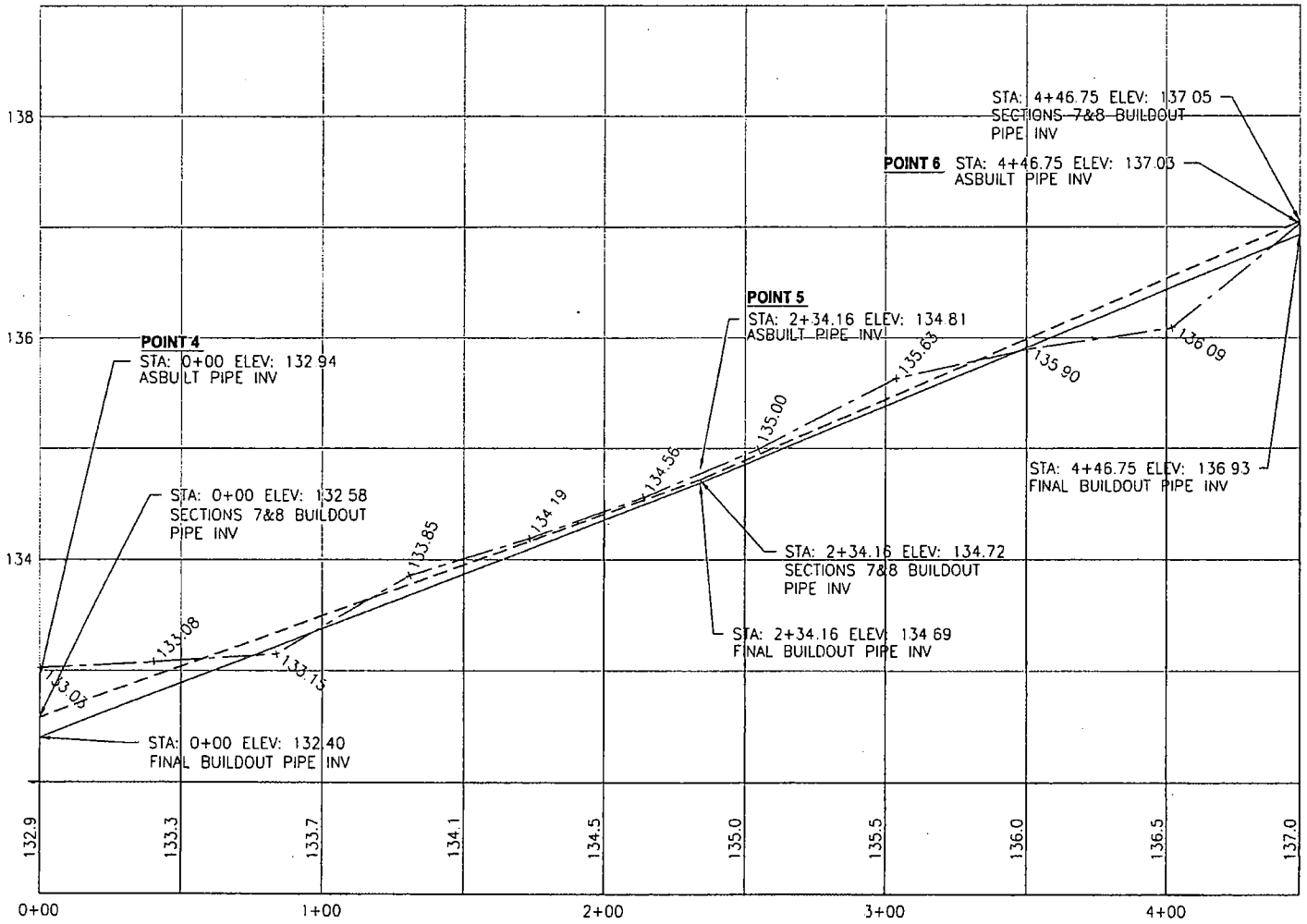


PROFILE "A"

SCALE 1"= 40' HORZ
1"= 1' VERT

HILLSBOROUGH COUNTY
SOUTHEAST COUNTY LANDFILL
SECTION 8 SITE A
LEACHATE PIPE SETTLEMENT CALCULATION
FIGURE 2. PROFILE "A"

JONES EDMUNDS

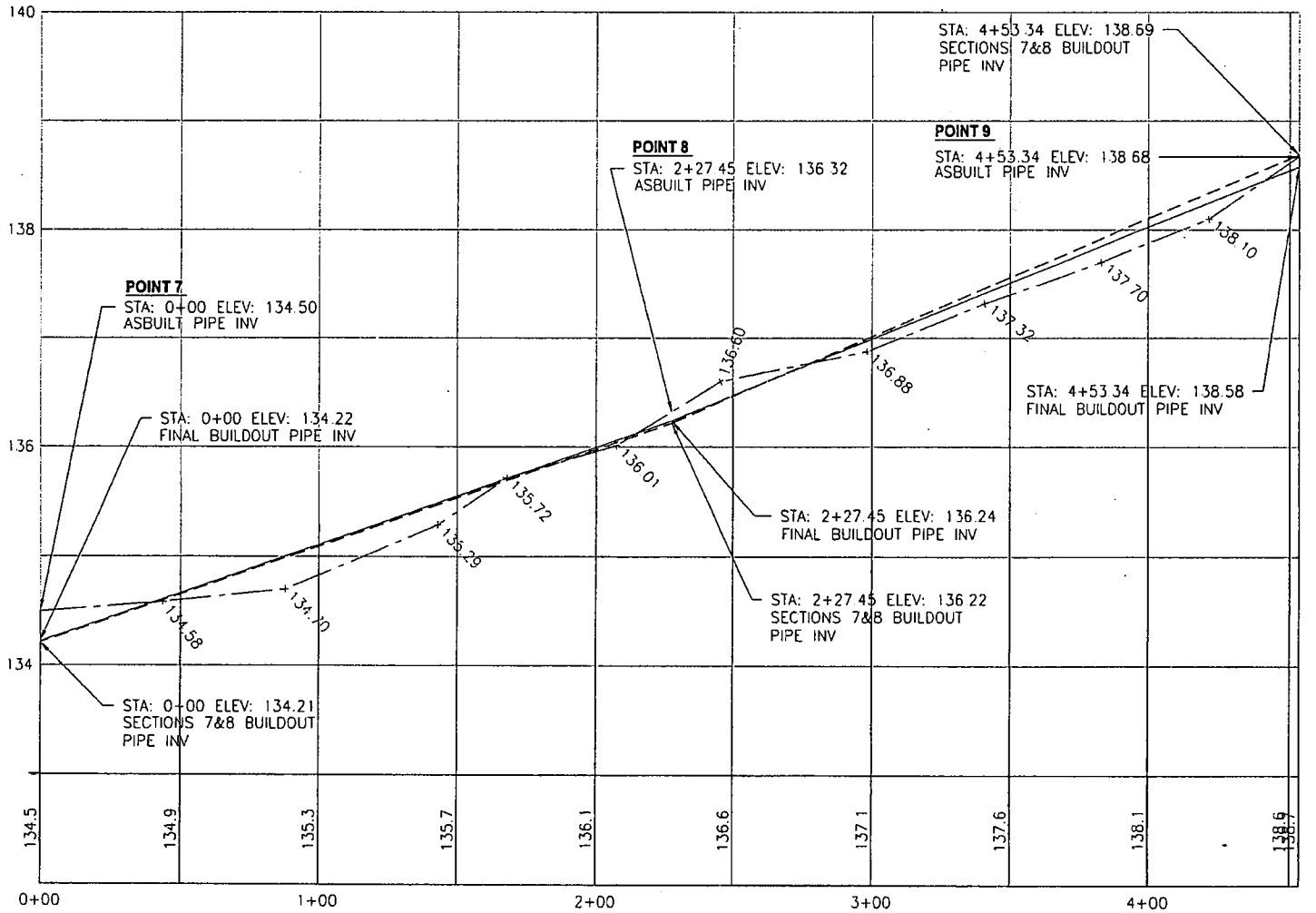


PROFILE "B"

SCALE 1" = 40' HORZ
1" = 1' VERT

HILLSBOROUGH COUNTY
SOUTHEAST COUNTY LANDFILL
SECTION 8 SITE A
LEACHATE PIPE SETTLEMENT CALCULATION
FIGURE 3. PROFILE "B"

JONES EDMUNDS



PROFILE "C"

SCALE 1"= 40' HORZ
1"= 1' VERT

HILLSBOROUGH COUNTY
SOUTHEAST COUNTY LANDFILL
SECTION 8 SITE A
LEACHATE PIPE SETTLEMENT CALCULATION
FIGURE 4. PROFILE "C"

JONES EDMUNDS

Hills Sect 8 constr. file

Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Jeb Bush
Governor

Colleen M. Castille
Secretary

DATE: 6/14/06

TIME: 100pm

LOCATION/CONFERENCE ROOM:

SUBJECT: Hillsborough Sect 8 cert – Discuss remaining items to complete certification

ATTENDEES

Name	Affiliation	Telephone	Email
Susan Pelz	FDEP	813-632-7600 x386	
Joseph H. O'Neill	Jones Edmunds	813-258-0703 x 132	joneill@jonesedmunds.com
Rich Siemering	Jones Edmunds	813-258-0703	RSIEMERING@JONESEDMUNDS.com

LETTER OF TRANSMITTAL

JONES EDMUNDS

TO:	Ms. Susan J. Pelz, P.E. Florida Depart. of Environmental Protection 13051 N Telecom Parkway Temple Terrace, FL 33637-0926	DATE	July 24, 2006
		JOB. NO.	08449-020-01 Task 0600
		RE:	Section 8 RAI

Dept. of Environmental Protection
JUL 24 2006
Southwest District

WE ARE SENDING YOU VIA:

- ☐ U.S. Mail
- ☐ FedEx
- ☐ Hand Delivery
- ☐ UPS Next Day
- ☐ UPS Ground
- ☒ Courier

# Copies	Date	Description
2	July 24, 2006	Capacity Expansion Section 8 RAI Reports, Southeast County Landfill

THESE ARE TRANSMITTED AS CHECKED BELOW:

- ☒ For Approval
- ☐ For Your Use
- ☐ As Requested
- ☐ For Signature
- ☐ For Your Information
- ☐ For Review and Comment
- ☐ For Your File
- ☐ Other:

REMARKS: Susan,

Attached are 2 copies of the Capacity Expansion Section 8 RAI Report (Certification of Construction Completion)

Please call with any questions.

Copies to: File

Signed

If enclosures are not as noted, kindly notify us at once.

324 S. Hyde Park Avenue, Suite 250 ! Tampa, Florida 33606 ! 813-258-0703 / FAX 813-254-6860

JONES EDMUNDS

Dept. of Environmental Protection
JUL 24 2006
Southwest District

July 24, 2006

Ms. Susan Pelz, P.E.
Florida Department of Environmental Protection
Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Subject: Response to Request for Additional Information
Southeast County Landfill, Hillsborough County
Capacity Expansion Section 8
Certification of Construction Completion
Permit No. 35453-009-SC
Jones Edmunds Project No. 08449-020-01

Dear Ms. Pelz:

Following our meeting on June 14, 2006 to discuss the Section 8 Certification of Construction Completion Report (Report), you had requested some additional information to be submitted to our office to assist you with completion your approval of the Report. The additional information that you requested is listed below.

Comment 1) Please clarify the photograph dated November 3, 2005. (Refer to the Department's Comment Number 3.C.4).

Response 1: As discussed during the meeting, no damage was observed to the primary geomembrane as shown in the submitted photographs; however, the location of the damaged geocomposite was mistakenly placed on the secondary as-built panel layout. Provided in Attachment 1 is a revised Primary As-Built panel layout that shows the damage location (approximately over Primary Panel 48).

Also included in Attachment 1 is a revised Secondary as-built panel layout that was included to provide clarification or answer others comments.

Comment 2) Please provide a revised Geomembrane Panel Layout that shows the "tear" mentioned in the field notes on the primary geomembrane panel layout. The "tear" was mistakenly placed on the secondary panel layout (Refer to the Department Comment Number 3.c.4) .

Response 2: A revised Geomembrane Panel Layout is provided in Attachment 1 with the corrected location of the geocomposite "tear".

324 South Hyde Park Avenue
Suite 250
Tampa, FL 33606

813.258.0703 Phone
813.254.6860 Fax
www.jonesedmunds.com

(See board report) FILE

JONES EDMUNDS

Dept. of Environmental Protection

MAY 02 2006

Southwest Dist...

May 1, 2006

Ms. Susan Pelz, P.E.
Florida Department of Environmental Protection
Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Subject: Response to Request for Additional Information
Southeast County Landfill, Hillsborough County
Capacity Expansion Section 8
Certification of Construction Completion
Permit No. 35453-009-SC
Jones Edmunds Project No. 08449-020-01

Dear Ms. Pelz:

On behalf of the Hillsborough County Solid Waste Management Department (SWMD), enclosed are four original copies (signed and sealed by a Professional Engineer, registered in the state of Florida)of the Hillsborough County Southeast County Landfill Capacity Expansion, Section 8, Class I Landfill Certification of Construction Completion, Response to DEP Request for Additional Information, dated May 1, 2006. Please note that only one of the four originals contain the VHS video tape for the video inspection of the leachate collection system pipes.

This response to the subject RAI was delayed to allow for review/discussion of the submittal during our April 27, 2006 meeting. However, time did not allow for the review of the subject submittal. Thus, rather than scheduling another meeting, we are submitting this response to answer your questions. We would prefer, if possible, to resolve any additional issues you may have during your review by providing information directly to you (on an as-needed basis) rather than going through another RAI process.

324 South Hyde Park Avenue
Suite 250
Tampa, FL 33606

813.258.0703 Phone
813.254.6860 Fax
www.jonesedmunds.com

(see Board Report)

Jones Edmunds believes that the enclosed responses to the comments/questions presented in the request for additional information are complete and responsive. Please call us if you have any questions or require additional information.

Sincerely,

Richard A. Siemering
Project Manager

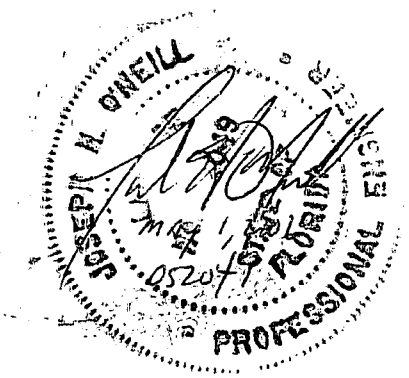
Joseph. H, O'Neill, P.E.
Solid Waste Department Manager

cc: Patricia V. Berry, SWMD
Larry Ruiz, SWMD
Ron Cope, EPC
John Arnold, Jones Edmunds

Enclosures

T:\08449 - Hillsborough\020 SELF Section 8\Correspondence\LTR05012006_Pelz Sect 8 Const RAI.doc

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAY - 2 2006
SOUTHWEST DISTRICT
TAMPA



HILLSBOROUGH COUNTY
SOUTHEAST COUNTY LANDFILL
CAPACITY EXPANSION, SECTION 8
CERTIFICATION OF CONSTRUCTION COMPLETION REPORT
RESPONSE TO DEP REQUEST FOR ADDITIONAL INFORMATION

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAY 2 2006
SOUTHWEST DISTRICT
TAMPA

Permit #35453-009-SC

Prepared for:

HILLSBOROUGH COUNTY
SOLID WASTE MANAGEMENT DEPARTMENT
COUNTY CENTER
601 E. Kennedy Boulevard, 24th Floor
Tampa, Florida 33601

JONES EDMUNDS & ASSOCIATES, INC.
324 S. Hyde Park Avenue, Suite 250
Tampa, Florida 33606

JONES EDMUNDS
Certificate of Authorization #1841

May 2006

Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926
Telephone: 813-632-7600

Jeb Bush
Governor

Colleen M. Castille
Secretary

Mr. Barry Boldissar, Director
Hillsborough County
Solid Waste Management Department
PO Box 1110
Tampa, Fl. 33601

March 17, 2006

RE: Hillsborough County Southeast Landfill, Section 8
Certification of Construction Completion
Permit #35453-009-SC, Class I LF Construction

Dear Mr. Boldissar:

This is to acknowledge receipt of the Certification of Construction Completion and supporting documentation as follows:

1. Hillsborough County Southeast County Landfill Capacity Expansion, Section 8, Certification of Construction Completion Report (1 volume), dated February 28, 2006 (received March 3, 2006), prepared by Jones, Edmunds & Associates (JEA);

2. Plan sheets titled, Southeast County Landfill Section 8 Capacity Expansion Construction Drawings (9 sheets), dated February 28, 2006 (received March 3, 2006), prepared by JEA; and

3. Partial Construction Certification Report- Capacity Expansion, Section 8, dated September 30, 2005 (2 volumes) (received March 3, 2006), prepared by SCS Engineers.

The Department has reviewed the above-referenced information and the certification of Section 8 is **not approved** at this time. The following information is needed to fully evaluate the information submitted. This is the Department's first request for additional information. Please provide the information listed below promptly.

The requested information and comments below do not repeat the information submitted by the applicant. However, every effort has been made to concisely refer to the section, page, drawing detail number, etc. where the information has been presented in the original submittal. Please be advised that although some comments do not explicitly request additional information, the intent of all comments shall be to request revised calculations, narrative, technical specifications, QA documentation, plan sheets, clarification to the item, and/or other information as appropriate.

Please submit **4 copies** of all requested information. Please submit all revised plans and reports as a complete package. If possible, please provide revised pages which may be inserted into the original submittal (holes punched for a three-ring binder). For revisions to the *narrative reports*, deletions may be struckthrough (~~struckthrough~~) and additions may be shaded (shaded) or similar notation method. This format will expedite the review process. Please include revision date on all revised pages.

Hillsborough County Southeast County Landfill Capacity Expansion, Section 8, Certification of Construction Completion Report (1 volume), dated February 28, 2006 (received March 3, 2006), prepared by Jones, Edmunds & Associates (JEA)

1. **Section 2, Subgrade.**
   a. Please provide a plan sheet that includes all of the subgrade test locations.

   b. Attachment 2-1, Burcaw report dated December 5, 2005. It appears that the material from Whetherington Tractor Service was used for the subbase and not the subgrade. Please provide revised information that includes the moisture-density relationship information in Section 3 for the subbase. Please clarify where the soils from "racetrack and infields road" were used in the project. Please provide a plan sheet that includes the subgrade test locations included in this report.

   c. Attachment 2-2, Subgrade Survey. Please clarify the term "GRND" used on some of the spot elevations.

2. **Section 3, Subbase** (low permeability clay layer).
   a. Attachment 3-1. The Faulkner report dated September 28, 2005 includes a "Sample Location Plan." However, it does not appear that Faulkner samples 21A and 9A are shown on this Figure, and several other sample locations ("TP" and "SCS") do not appear to be addressed in the report.

   b. Attachment 3-2, Subbase survey. The elevations shown on this survey do not appear to correlate with the design elevations shown on Sheet 5 of 9. In some locations, the elevations are greater than one foot lower than the design elevations. Based on this, the geotechnical evaluations submitted as part of the construction permit application may no longer be valid. Please provide revised settlement and slope stability calculations based on the constructed elevations of Section 8.

3. **Section 4, Geomembrane/Geocomposite installation.**
   a. §4.4.4. The report indicates that the criterion for geomembrane seams to pass is four out of five specimens must meet the require yield strengths (shear and peel). However, Specification Section 02776-3.05.B.6. requires that all specimens must meet the required seam strengths. Please revise the narrative as appropriate.

(Comment #3, cont'd)

b. §4.5. Please discuss geocomposite transmissivity testing in this section.

c. Attachment 4-1, Daily Field Reports.

1) *10/05/05.* Please explain how a HDPE pipe was used to "depress swell [sic] floor/shape and adjust grade." Please provide photos of this activity.

2) *10/08/05.* Please provide photos of the "wet drainage."

3) *10/18/05, 10/21/05, 10/27/05, 11/11/05.* Please provide photos of the "debris," "sticks, rocks" that were removed from the protective cover soil.

4) *11/3/05.* Please show the location where the "dozer hit geocomposite" on the panel layout drawings. Please provide photos of the damage and repairs.

5) *11/9/05.* This report indicates that the liner "blew out" on the east separation berm. However the non-destructive testing logs in the QES QA report, Section 6 do not indicate any seam failures on the separation berms. Please explain this inconsistency and provide revised information as appropriate. Please explain why the "blow out" occurred.

6) *11/17/05.* Please explain the reference to "alternate cover soil." Please provide borrow source testing results for the "alternate cover soil."

7) *11/19/05.* Please clarify why ERC was "excavating/digging a work pit to work under dozer- [and] QES directed them to line pit with 60 mil HDPE." Please clarify where this activity occurred.

8) *11/25/05.* Please clarify what was being dumped outside the east berm.

9) *11/29/05.* Please provide photos of the "water leaking through 8" tee ball plug." Please clarify the location of this occurrence.

10) *12/7/05.* Please clarify the reference to "low areas."

11) *12/13/05.* Please clarify if the figures at the end of this section are intended to be Section 7 and Section 8. It appears that only Section 7 is provided.

(Comment #3, cont'd)

d. Attachment 4-2, Panel Layouts.

1) *Secondary.* Please provide a repair number for the "cap" shown on panels 27/28. Please clarify the location of repair R10 (it appears that two R11 were shown). Please note the location of repair R48. Please clarify the location of SDT-8C (results for this test were provided in Attachment 4-4). Please clarify the location of R48 (the repair log lists the location as 27-28). Please clarify if the cap from DT-8A to R48 was extrusion welded. Please clarify the location of R89 (the repair logs lists the location as 41-Tie). Please clarify the location of R146 (the repair logs list this as 47-48).

2) *Primary.* Please provide photos of the damage from forklift (R57 through R66) and subsequent repairs. Please explain how it was determined that the secondary geocomposite and liner were not impacted by this event. This event does not appear to have been included in the Daily Reports. Please explain.

e. Attachment 4-4, Destructive test results. Please provide the result for SDT-8. Please clarify if "SDS" tests are the same as "SDT" tests. Please provide the results for SDS-26.

4. **Section 5, Leachate collection/detection system.**

a. Attachment 5-1, pipe survey. Please provide a signed and sealed as-built pipe survey.

b. Attachment 5-3, woven geotextile. Please provide conformance test results for this material (see CQA Plan §6.2.2.).

5. **Section 6, protective cover installation.**

a. Attachment 6-2, CQA test results. Please specify the company that conducted the permeability test that resulted in hydraulic conductivity = 5.6×10^{-3} cm/sec. Please explain why the drainage sand (protective soil) would include "hard pan." It does not appear that this description correlates with the requirements of Specification 02220-2.05.A. Please provide the complete Qore report. Since Faulkner Engineering Services was a subcontractor to the contractor and provided CQC testing, please explain why the Faulkner summary of test result is included in this Attachment.

(Comment #5, cont'd)

b. Attachment 6-3, protective cover soil survey. Please provide a signed and sealed as-built protective soil survey. It appears that the locations of the survey points on this survey do not correlate with the survey points on the clay subbase survey (Attachment 3-2) or the tire chip survey (Attachment 7-1) as required by Specification 01050-3.01.C. Please provide surveys that meet this requirement. Based on a comparison of points on the clay subbase survey and the protective soil survey, it appears that in some locations, the protective soil layer did not meet the thickness requirements of Rule 62-701.400(4)(b), F.A.C., and Specific Condition #9.b.

6. **Section 7, Processed tires.**

a. Attachment 7-1, survey. Please provide a signed and sealed as-built tire chip layer survey. Please include an outline of the disposal cell on this survey. See also Comment #5.b., above.

7. **Section 9, LCS videotape.** Please provide a copy of the videotape and Florida Jet Clean report.

8. **Section 10, Final survey.** Please provide a signed and sealed as-built final survey. See also Comment #5.b. above.

9. **Section 11, Photographs.**

a. November 2005.

1) *11/1/05.* Please clarify if the excavator in this photo is "low ground pressure" equipment. Please clarify how damage was prevented in the layers underlying the excavator. Please provide additional photos of the separation berm construction, including geomembrane welding, testing, etc.

2) *11/3/05.* Please clarify if the brown soil on the left of this photo is the protective soil layer.

JEA Enclosure 2, QES CQA Report

10. **Section 1, Subbase.** Please provide CQA test results for the subbase.

11. **Section 2, Secondary geomembrane.**

a. Please provide additional photos for this portion of the construction. Photographs may be provided on a compact disk instead of hard copy.

b. Non-destructive test logs.

1) This log (page 4) indicates that seam 52-54 was vacuum box tested. However, the seaming logs (sheet 5) indicate that this seam is a fusion welded seam. Please explain how a double fusion weld is adequately tested by vacuum box. This does not seem to meet the requirements of Specification 02776-3.06.A.1. and 2.

(Comment #11.b., cont'd)

2) This log (page 6) indicates that seam 27-tie in was tested by air channel. However, the seaming log (page 4) indicates that this was extrusion welded. Since extrusion welds cannot be tested by air channel pressure testing, please clarify.

c. Repair logs.

1) Please clarify the location of R48 (page 2). The comments indicate that it is located at DT-8A, but it does not appear to be shown in this location on the panel layout drawing.

2) Please clarify the type of repair for R86 (page 4).

d. Destructive test log. Please provide test results for DT-8C. Please clarify the status of test DT-8A. The repair logs (page 2-R48) indicate that this DT failed.

12. **Section 4, Primary geomembrane.**

a. Seaming logs. Please clarify why there is an entry for seam 51-t1 at 3:00pm (page 5) and at 3:40 pm (page 7).

b. Non-destructive test logs.

1) Please clarify the reference to seam #21-26B (10/5/05, page 2). This seam does not appear to be shown on the seaming logs. Please clarify the type of seam.

2) Seams 43A-42, 21-7, 21-12 (page 3), 21-25, 24-25 (page 4) are indicated to be extrusion welds. However, the seaming logs indicate that these seams are fusion welds. Please clarify.

c. Repair logs. Please provide photos of repairs R57-R66. Please explain how it was determined (and provide photos as appropriate) that the forklift did not damage the underlying secondary liner and geocomposite. See also Comment #3.d(2).

13. Section 6, Interior Separation Berms. Please provide additional photos of the separation berm construction, including welding to primary geomembrane. Please discuss the east berm "blow out" mentioned in the Daily Reports (Attachment 4-1).

14. Section 7, HDPE pipe & protective soil. Please provide CQA test results for the protective soil cover.

Partial Construction Certification Report- Capacity Expansion, Section 8, dated September 30, 2005 (received March 3, 2006), prepared by SCS Engineers, Volume I.

15. **Section 1.**

a. §1.3. Please provide calculations that demonstrate that the revised drainage sand gradation will not result in excessive clogging of the geotextile.

(Comment #15, cont'd)

b. §1.7 Please revise this section to include the requirement for double the frequency for the first 5 acres of liner. Please provide density tests from the soils CQA firm as required by CQA Plan §5.4.

16. **Section 3, Excavation.** Please clarify if Attachment 3-1 is intended to represent the contours shown on Sheet 3 of 9 in the permitted plans.

17. **Section 4, Backfill & compaction.**

a. Please provide a survey that includes contours and an outline of the disposal cell.

b. Attachment 4-2, Drawings of testing points per lift. Please provide these drawings.

c. Attachment 4-3, Burcaw/Faulkner test results. Please provide a figure that shows the locations of these test points.

18. **Section 5, Subbase.**

a. Attachment 5-1, Survey. Please provide a survey that includes contours and an outline of the disposal cell.

b. Attachment 5-2, borrow source testing. Please provide a complete copy of the Faulkner borrow source report. Please specify the consolidation stress for the hydraulic conductivity testing.

c. Attachment 5-3, CQA results (borrow source).

1) Please provide a table or list of test results that correlate with those shown on Figure 1. Please include a north arrow and scale on Figure 1.

2) Please clarify the source of the material tested by PSI. The descriptions do not appear to correlate with the material used for the subbase. Please specify the consolidation stress of the samples.

d. Attachment 5-4, CQC results.

1) *Test strip.* Please show the locations of samples P1, P2 and P3 on Figure 1 (Attachment 5-3). Please show the location of the test pad on Figure 1 (Attachment 5-3). Since Qore is the soil CQA contractor, please explain why Qore appears to have been contracted by Burcaw to conduct permeability tests.

2) Please be advised that since ASTM method D5084 was not used, the tests conducted by Qore do not appear meet the requirements of Rule 62-701.400(8)(c) or (d), F.A.C. Please clarify why the description of the materials tested by Qore do not appear to correlate with the borrow source report. Please provide information that demonstrates that adequate hydraulic conductivity testing was conducted on the subbase.

19. **Section 6, Geosynthetics.**

a. Attachment 6-2, panel placement logs. It does not appear that these logs correlate with the logs provided in JEA, Attachment 4-3. Please clarify the purpose of these logs.

b. Attachment 6-3, MQA.

1) Please explain each column in the summary sheets. Please clarify why some roll numbers are bold text. Please clarify which of these rolls were used on this project (see also "Test Results").

2) *Batch 2, Section 2, geonet.* Please provide a legible copy of this section.

3) Please clarify why some test results are blank in the lot summary tables.

4) Please clarify if Batch 7 is the same as Batch 8. Please clarify why Section 4 (geocomposite) of Batch 8 is different from batch 7 when the geonet and geotextile are the same for batches 7 and 8.

c. Attachment 6-4, CQA, geocomposite. Please provide test results for each of the tests required by Specifications Tables 02930-1, 2 and 3, and CQA Plan §6.3.3.2. Since there were 8 batches (lots) of geocomposite, please clarify why 8 conformance samples were not taken of the geocomposite.

d. Attachment 6-7, CQA geomembrane. Please provide test results for oxidative induction time.

e. Attachment 6-8, panel placement logs. Please provide legible copies of the information in this section.

f. Attachment 6-11, repair logs. Please clarify if the information in this section is duplicated in QES Section 2.

20. **Section 7, drainage sand, pipe.**

a. Attachment 7-2. Please clarify where corrugated HDPE pipe is used in this project.

Volume II.

21. **Section 8.**

a. Attachment 8-1.

1) *2/12/05.* Please clarify if this photo shows the excavation of phosphatic clay. Please clarify the type of white material in the background.

2) *7/22/05.* Please clarify the reference to "landfill material" in this photo.

3) *7/27/05.* Please explain what the light colored material that appears to be imbedded in the clay layer is.

(Comment #21.a., cont'd)

4) *8/20/05.* This photo appears to show notable ruts in the subgrade. However, the photo indicates that the area is "ready for clay." Please explain.

5) *9/1/05.* Please explain what the light colored material that appears to be imbedded in the clay layer is.

6) *9/15/05.* Please clarify what the black rectangular object in the eastern portion of the photo is.

7) *9/20/05.* Due to gray material protruding through the orange clay, this photo appears to show the subbase (clay) too thin at the top of slope. Please discuss.

8) Please provide photos from 9/28/05 through 9/30/05.

b. Attachment 8-2, Daily Reports.

1) Many of these reports indicate multiple pages for a particular date, but only one page was provided. Please review the information submitted and verify if all pages have been provided.

2) *2/17/05, 8/25/05.* Please clarify why the contractor was primarily concerned about H_2S and not methane.

3) *2/18/05, 2/24/05.* Please clarify if the geocomposites that were stored on the ground were cleaned prior to storing on tires (up off of the ground).

4) *3/10/05.* Please clarify the reference to "install temp weir." Please explain the purpose and specify the discharge location for this weir.

5) *4/14/05.* Please provide a copy of the direct shear test results for the sand referenced in this report.

6) *4/28/05.* Please provide the OIT and stress crack results referenced in this report.

Plan sheets titled, Southeast County Landfill Section 8 Capacity Expansion Construction Drawings (9 sheets), dated February 28, 2006 (received March 3, 2006), prepared by JEA

22. Please include a description of all changes to the drawings/design in the narrative report (§1.3).

23. **Sheet 5.** Please specify the changes in Details 5/8 and 6/8.

24. **Sheet 6.** Please specify the changes in Detail 6/9.

25. **Sheet 7.** Please explain how it was determined that phosphatic clay was not encountered below +118 ft. NGVD.

26. **Sheet 8.** Please verify the detail number for the separation berm detail. It appears that there are two Detail 6 on this sheet.

27. **Sheet 9.** Please provide elevations for the tie-in detail shown on this sheet.

General:

28. It does not appear that all of the deviations shown on the plans are described in the narrative reports (§1.3, JEA; §1.3, SCS, vol.I). Please provide revised narratives that include all changes in the design (e.g., separation berms).

29. It does not appear that CQA testing of the soil materials was conducted in accordance with Rule 62-701.400(8)(b), F.A.C. Please provide soil CQA test results that comply with the requirements of this Rule and CQA Plan §5.4. The Department acknowledges that two permeability test results were provided in JEA Attachment 6-2.

30. **SCS, Volume I, Section 6.** It does not appear that the all of the geosynthetics conformance testing required by the Specifications and CQA Plan were conducted (e.g., see Spec. 02930-3.01.D., 02776-3.02.C., CQAP 6.3.2.2, 6.3.2.3, 6.3.3.2, 6.3.3.3).

The following comments are for information only at this time, and do not require an immediate response:

1. Based on the information provided, it appears that construction has not complied with the following specific conditions (SC) of construction Permit #35453-009-SC:

   a. SC #6.b(1). requires that an organizational chart showing all parties be submitted at least 7 days prior to construction. A review of Department files indicates that this information does not appear to have been provided prior to construction.

   b. **JEA, Attachment 5-1, piping survey.** §5.2. of the narrative indicates that the leachate collection system piping was installed "at the lines and grades as shown on the permit drawings." However, based on the elevations shown in this Attachment show that the LCS pipe inverts were constructed at elevations lower than the permitted design. This survey also appears to indicate that the pipe slopes are flatter (0.687%, 0.856%, 0.877% and 0.7017%) than the permitted pipe slopes (1%), and that the pipes were not constructed within the tolerances required by the Specifications (see §010503.03.A, and SC#9.a and #9.b. of the permit).

   c. SC#11.c. requires that conformance testing of geosynthetics shall be in accordance with the Specifications and CQA Plan. It does not appear that these requirements have been complied with.

(Informational Comment #1, cont'd)

d. Daily Report 10/12/05 (JEA, Attachment 4-1) indicates that ERC placed geocomposite over the primary geomembrane prior to receiving passing destructive tests results. This is contrary to SC#11.f(3) of the permit. The results for PDT-1 through PDT-19 and PDT-21 appear to have been received 10/13/05, but geocomposite panels 1 through 72 were placed on 10/12/05.

e. SC #2 and #3 requires that the construction shall be performed in accordance with the permitted design and any changes to the permitted design or plans may require a permit modification. **SCS, Volume I, §1.7.** This section indicates that "fat clay" was suitable for use in the low permeability subbase. However, this does not appear to comply with Specification 02221-2.01.A.

f. SC#13.d. requires that the subbase shall have no deleterious materials larger than ¼ inch. **SCS, Volume I, §1.7.** This section indicates that the subbase was free of sticks, roots, organic matter and stones larger than 1 inch in any dimension. However, this does not appear to comply with Specification 02221-2.01.B that requires no deleterious materials no greater than ¼ inch.

Please respond **within 30 days** after you received this letter, responding to all of the information requests and indicating when a response to any unanswered questions will be submitted. If the response will require longer than 30 days to develop, you should develop a specific time table for the submission of the requested information for Department review and consideration. Pursuant to the provisions of Rule 62-4.055(1), F.A.C., if the Department does not receive a timely, complete response to this request for information the Department may issue a final order denying your application. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant may reapply as soon as the requested information is available. You are requested to submit your responses to this letter together, as one complete package. Please contact me at (813)632-7600 ext. 386 if you have any questions.

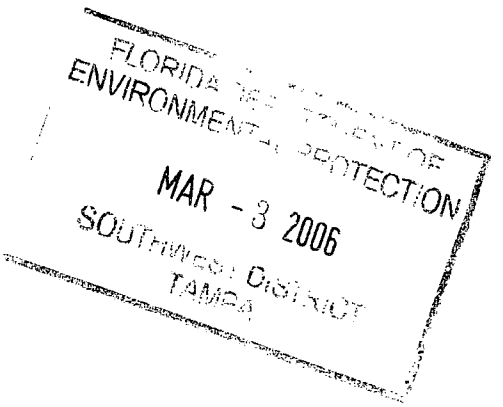
You are requested to submit your response to this letter together, as one complete package. If you have any questions, please contact me at (813)632-7600 ext. 386.

Sincerely,

Susan J. Pelz, P.E.
Solid Waste Program Manager
Southwest District

sjp
cc: Patricia Berry, HC SWMD, P.O. Box 1110, Tampa, Fl. 33601
Joe O'Neill, P.E., JEA, 324 S. Hyde Park Ave., Ste. 250, Tampa, Fl. 33606
Ron Cope, HCEPC
William Kutash, FDEP Tampa
John Morris, P.G., FDEP Tampa

JONES EDMUNDS



March 2, 2006

Ms. Susan J. Pelz, P.E.
Florida Department of Environmental Protection
Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Subject: Certification of Construction Completion Report
Hillsborough County Southeast County Landfill
Capacity Expansion, Section 8
Permit Number 35435-009-SC

Dear Ms Pelz:

On behalf of the Hillsborough County Solid Waste Management Department (SWMD), Jones Edmunds is pleased to submit the Certification of Construction Completion Report (Report) for the Hillsborough County Southeast County Landfill Capacity Expansion, Section 8 (see enclosure). The Report documents the construction activities for the subject construction project in accordance with FDEP rules and the Construction Permit.

This Certification of Construction Completion Report contains two certifications: one from SCS Engineers, dated September 30, 2005 (see enclosure), and one from Jones Edmunds dated February 2006, both signed and sealed by a Professional Engineer registered in the state of Florida. As discussed in the enclosed Jones Edmunds Certification of Construction Completion Report, SCS Engineers was responsible for certifying all construction activities beginning January 31, 2005 through September 30, 2005. Jones Edmunds Certification of Construction Completion Report includes all construction activities beginning October 1, 2005 through the remainder of the project.

Hills Co
Southeast LF
Constr. Cert
File

324 South Hyde Park Avenue
Suite 250
Tampa, FL 33606

813.258.0703 Phone
813.254.6860 Fax
www.jonesedmunds.com

(See Board Reports)

Upon your review and approval of the enclosed Certification of Construction Completion Report, please call us at your earliest convenience to schedule a site inspection/walk-through. In addition, please call us if you have any questions or require additional information.

Sincerely,

Joseph H. O'Neill, P.E.

cc: Patricia V. Berry, SWMD
Larry E. Ruiz, SWMD
Ron Cope, EPC
John P. Arnold, P.E., Jones Edmunds

3/2/06
PE No. 052049

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAR - 3 2006
SOUTHWEST DISTRICT
TAMPA

Hillsborough County
Southeast County Landfill
Capacity Expansion, Section 8
Certification of Construction Completion Report

Prepared for:
Hillsborough County
Solid Waste Management Department
County Center
601 E. Kennedy Boulevard, 24th Floor
Tampa, Florida 33601

Prepared by:
Jones Edmunds and Associates, Inc.
324 S. Hyde Park Avenue, Suite 250
Tampa, Florida 33606

February 28, 2006

DEP Form # 62-701.900(2)
Form Title Certification of Construction Completion
Effective Date May 19, 1994

DEP Application No. _____
(Filled by DEP)

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

Certification of Construction Completion of a Solid Waste Management Facility

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAR - 3 2006
SOUTHWEST DISTRICT
TAMPA

DEP Construction Permit No: 35435-009-SC County: Hillsborough

Name of Project: Capacity Expansion Section 8, Southeast County Landfill

Name of Owner: Hillsborough County Board of County Commissioners

Name of Engineer: Jones Edmunds

Type of Project: Class I Landfill Cell

Cost: Estimate $ 3,000,000 Actual $ 4,085,598.33

Site Design: Quantity: 3,000 ton/day Site Acreage: 6.8 Acres

Deviations from Plans and Application Approved by DEP: See attached Certification of Construction Completion Report

Address and Telephone No. of Site: 15960 County Road 672, Lithia, FL 33547, 813-671-7707

Name(s) of Site Supervisor: Larry E. Ruiz

Date Site inspection is requested: As soon as possible, please contact Larry Ruiz, 813-671-7707

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. 35435-009-SC :Dated: 9/1/2004

Date: February 28, 2006

Signature of Professional Engineer 3/2/06
P.E. No. 052045

Northwest District
160 Governmental Center
Pensacola, FL 32501-5794
850-595-8360

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

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

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

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

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

HILLSBOROUGH COUNTY
SOUTHEAST COUNTY LANDFILL
CAPACITY EXPANSION, SECTION 8

CERTIFICATION OF CONSTRUCTION COMPLETION REPORT

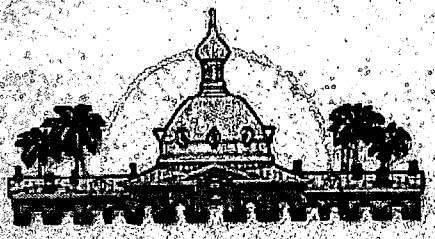
FLE

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAR - 3 2006
SOUTHWEST DISTRICT TAMPA

Construction Permit No. 35435-009-SC

Prepared for:

HILLSBOROUGH COUNTY
SOLID WASTE MANAGEMENT DEPARTMENT
P. O. Box 1110
Tampa, Florida 33601



Prepared by:

JONES EDMUNDS & ASSOCIATES, INC.
324 S. Hyde Park Avenue, Suite 250
Tampa, Florida 33606

JONES EDMUNDS

Certificate of Authorization #1841

February 2006

FILE

Partial Construction Certification Report – Capacity Expansion, Section 8

Volume 1 of 2

Southeast County Landfill
Hillsborough County, Florida

SCS ENGINEERS

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAR - 3 2006
SOUTHWEST DISTRICT
TAMPA

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
Fax (813) 623-6757

File No. 09200020.35
September 30, 2005

FILE
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAR - 3 2006
SOUTHWEST DISTRICT
TAMPA

Partial Construction Certification Report – Capacity Expansion, Section 8

Volume 2 of 2

Southeast County Landfill
Hillsborough County, Florida

SCS ENGINEERS

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
Fax (813) 623-6757

File No. 09200020.35
September 30, 2005

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

DEP Form # 62-701.900(2)
Form Title Certification of Construction Completion
Effective Date May 19, 1994

DEP Application No. _____
(Filled by DEP)

Certification of Construction Completion of a Solid Waste Management Facility

DEP Construction Permit No: 35435-009-SC County: Hillsborough

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAR - 3 2006
SOUTHWEST DISTRICT
TAMPA

Name of Project: Capacity Expansion Section 8

Name of Owner: Hillsborough County

Name of Engineer: SCS Engineers

Type of Project:

Approximately 6.8-acre Class I disposal expansion

Cost: Estimate $ 4,392,345 Actual $ 4,100,000

Site Design: Quantity: _____ ton/day Site Acreage: 6.8 Acres

Deviations from Plans and Application Approved by DEP: This completion form is to certify the design components constructed through September 30, 2005 under the direction and supervision of SCS Engineers. Please refer to the attached Partial Construction Certification Report for minor deviation from plans and Application.

Address and Telephone No. of Site: 15960 County Road 672, Lithia, FL 33547

Name(s) of Site Supervisor: Larry E. Ruiz

Date Site inspection is requested: As soon as possible, please contact Larry Ruiz, (813) 671-7707

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. 35435-009-SC :Dated: September 1, 2004

Date: 10/5/05

Signature of Professional Engineer

Northwest District
160 Governmental Center
Pensacola, FL 32501-5794
850-595-8360

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

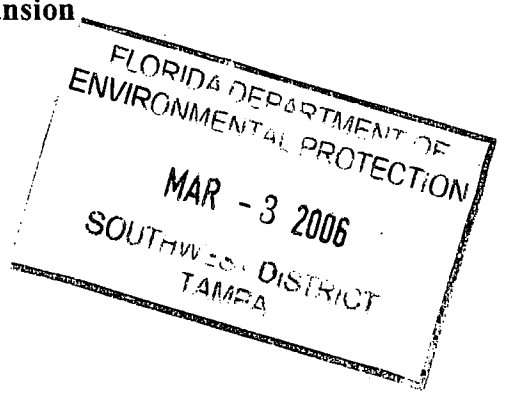
Central District
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767
407-894-7555

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

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

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

Partial Certification of
Construction Completion Report
Southeast County Landfill Capacity Expansion
Section 8 Construction



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
Fax (813) 623-6757

September 30, 2005
File No. 09200020.35

JONES EDMUNDS

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

MAR - 3 2006

SOUTHWEST DISTRICT
TAMPA

March 2, 2006

Ms. Susan J. Pelz, P.E.
Florida Department of Environmental Protection
Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Subject: Certification of Construction Completion Report
Hillsborough County Southeast County Landfill
Capacity Expansion, Section 8
Permit Number 35435-009-SC

Dear Ms Pelz:

On behalf of the Hillsborough County Solid Waste Management Department (SWMD), Jones Edmunds is pleased to submit the Certification of Construction Completion Report (Report) for the Hillsborough County Southeast County Landfill Capacity Expansion, Section 8 (see enclosure). The Report documents the construction activities for the subject construction project in accordance with FDEP rules and the Construction Permit.

This Certification of Construction Completion Report contains two certifications: one from SCS Engineers, dated September 30, 2005 (see enclosure), and one from Jones Edmunds dated February 2006, both signed and sealed by a Professional Engineer registered in the state of Florida. As discussed in the enclosed Jones Edmunds Certification of Construction Completion Report, SCS Engineers was responsible for certifying all construction activities beginning January 31, 2005 through September 30, 2005. Jones Edmunds Certification of Construction Completion Report includes all construction activities beginning October 1, 2005 through the remainder of the project.

324 South Hyde Park Avenue
Suite 250
Tampa, FL 33606

813.258.0703 Phone
813.254.6860 Fax
www.jonesedmunds.com

Upon your review and approval of the enclosed Certification of Construction Completion Report, please call us at your earliest convenience to schedule a site inspection/walk-through. In addition, please call us if you have any questions or require additional information.

Sincerely,

Joseph H. O'Neill, P.E.

cc: Patricia V. Berry, SWMD
Larry E. Ruiz, SWMD
Ron Cope, EPC
John P. Arnold, P.E., Jones Edmunds

HILLSBOROUGH COUNTY
SOUTHEAST COUNTY LANDFILL
CAPACITY EXPANSION, SECTION 8

CERTIFICATION OF CONSTRUCTION COMPLETION REPORT

FILE

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAR - 3 2006
SOUTHWEST DISTRICT
TAMPA

Construction Permit No. 35435-009-SC

Prepared for:

HILLSBOROUGH COUNTY
SOLID WASTE MANAGEMENT DEPARTMENT
P. O. Box 1110
Tampa, Florida 33601

Prepared by:

JONES EDMUNDS & ASSOCIATES, INC.
324 S. Hyde Park Avenue, Suite 250
Tampa, Florida 33606

JONES EDMUNDS

Certificate of Authorization #1841

February 2006

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAR - 3 2006
SOUTHWEST DISTRICT
TAMPA

Hillsborough County
Southeast County Landfill
Capacity Expansion, Section 8
Certification of Construction Completion Report

Prepared for:
Hillsborough County
Solid Waste Management Department
County Center
601 E. Kennedy Boulevard, 24th Floor
Tampa, Florida 33601

Prepared by:
Jones Edmunds and Associates, Inc.
324 S. Hyde Park Avenue, Suite 250
Tampa, Florida 33606

February 28, 2006

DEP Form # 62-701.900(2)
Form Title Certification of Construction Completion
Effective Date May 19, 1994

DEP Application No. _____
(Filled by DEP)

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

Certification of Construction Completion of a Solid Waste Management Facility

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAR - 3 2006
SOUTHWEST DISTRICT
TAMPA

DEP Construction Permit No: 35435-009-SC County: Hillsborough

Name of Project: Capacity Expansion Section 8, Southeast County Landfill

Name of Owner: Hillsborough County Board of County Commissioners

Name of Engineer: Jones Edmunds

Type of Project: Class I Landfill Cell

Cost: Estimate $ 3,000,000 Actual $ 4,085,598.33

Site Design: Quantity: 3,000 ton/day Site Acreage: 6.8 Acres

Deviations from Plans and Application Approved by DEP: See attached Certification of Construction Completion Report

Address and Telephone No. of Site: 15960 County Road 672, Lithia, FL 33547, 813-671-7707

Name(s) of Site Supervisor: Larry E. Ruiz

Date Site inspection is requested: As soon as possible, please contact Larry Ruiz, 813-671-7707

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. 35435-009-SC :Dated: 9/1/2004

Date: February 28, 2006

Signature of Professional Engineer 3/2/06
P.E. No. 052045

Northwest District
160 Governmental Center
Pensacola, FL 32501-5794
850-595-8360

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

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

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

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

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

Partial Construction Certification Report – Capacity Expansion, Section 8

Volume 1 of 2

Southeast County Landfill
Hillsborough County, Florida

SCS ENGINEERS

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAR - 3 2006
SOUTHWEST DISTRICT
TAMPA

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
Fax (813) 623-6757

File No. 09200020.35
September 30, 2005

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAR - 3 2006
SOUTHWEST DISTRICT
TAMPA

Partial Construction Certification Report – Capacity Expansion, Section 8

Volume 2 of 2

Southeast County Landfill
Hillsborough County, Florida

SCS ENGINEERS

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
Fax (813) 623-6757

File No. 09200020.35
September 30, 2005

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAR - 3 2006
SOUTHWEST DISTRICT
TAMPA

Partial Certification of Construction Completion Report Southeast County Landfill Capacity Expansion Section 8 Construction

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
Fax (813) 623-6757

September 30, 2005
File No. 09200020.35

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

DEP Form # 62-701.900(2)
Form Title Certification of Construction Completion
Effective Date May 19, 1994

DEP Application No. _____
(Filled by DEP)

Certification of Construction Completion of a Solid Waste Management Facility

DEP Construction Permit No: 35435-009-SC County: Hillsborough

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAR - 3 2006
SOUTHWEST DISTRICT
TAMPA

Name of Project: Capacity Expansion Section 8

Name of Owner: Hillsborough County

Name of Engineer: SCS Engineers

Type of Project:

Approximately 6.8-acre Class I disposal expansion

Cost: Estimate $ 4,392,345 Actual $ 4,100,000

Site Design: Quantity: _____ ton/day Site Acreage: 6.8 Acres

Deviations from Plans and Application Approved by DEP: This completion form is to certify the design components constructed through September 30, 2005 under the direction and supervision of SCS Engineers.

Please refer to the attached Partial Construction Certification Report for minor deviation from plans and Application.

Address and Telephone No. of Site: 15960 County Road 672, Lithia, FL 33547

Name(s) of Site Supervisor: Larry E. Ruiz

Date Site inspection is requested: As soon as possible, please contact Larry Ruiz, (813) 671-7707

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. 35435-009-SC :Dated: September 1, 2004

Date: 10/5/05

Signature of Professional Engineer

Northwest District
160 Governmental Center
Pensacola, FL 32501-5794
850-595-8360

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

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

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

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

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

JONES EDMUNDS

RECEIVED
DEC 3 0 2005
Department of Environmental Protection
BY SOUTHWEST DISTRICT

December 29, 2005

Ms. Susan J. Pelz, P.E.
Florida Department of Environmental Protection
Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Subject: Monthly and Final Update – November 1, 2005 through December 12, 2005
Southeast County Landfill, Hillsborough County
Capacity Expansion Section 8 Construction
Permit Number 35435-009-SC
Jones Edmunds Project No. 08449-020-01

Dear Ms Pelz:

On behalf of the Hillsborough County Solid Waste Management Department (SWMD), Jones Edmunds is submitting the Monthly Summary Report per Specific Condition 8b of the construction permit. The attached monthly report covers the period of November 1, 2005 through December 12, 2005. The subject construction project met the requirements for Substantial Completion on December 10, 2005. Therefore, this report is the final Monthly Summary Report that will be submitted to the FDEP for the subject construction project. This Monthly Summary Report includes the following:

1) A narrative explaining the status (and any delays) of major stages of the construction (i.e., geomembrane liner, piping, liner penetrations, etc.).

2) A summary of submittals and change order requests.

3) Weekly progress meeting minutes.

4) Color copies of photographs which are representative of the typical construction activities for the reporting period, and photographs which show overall views and details of major stages of construction, tanks construction, etc.

324 South Hyde Park Avenue
Suite 250
Tampa, FL 33606

813.258.0703 Phone
813.254.6860 Fax
www.jonesedmunds.com

(See Board Report)

Please place this Monthly Summary Report into the next appropriate section of the 3-ring Project Binder that was previously submitted to the Florida Department of Environmental Protection in June 2005.

Sincerely,

Richard A. Siemering
Project Manager

cc: Larry E. Ruiz, SWMD
Al Munger, SWMD

ATTACHMENT A

Weekly Summary Reports

Hills Co Set 8
Op

Pelz, Susan

From: Pelz, Susan
Sent: Friday, October 14, 2005 12:56 PM
To: 'PATRICIA BERRY'
Cc: Larry Ruiz; RSiemering@jea.net; Bradley, Christopher; Morris, John R.; Morgan, Steve; Yasin, Mohamed
Subject: RE: Air Section Review

Patty,

I forwarded the information on to our Air Section. Until they give you the OK to passively vent the gas, we cannot authorize you to move forward with the proposed trench/vent.

Chris Bradley in our Air Section is gathering information and discussing the situation with other air staff. I'll let you know as soon as I hear anything.

Susan J. Pelz, P.E.
Solid Waste Program Manager
Southwest District
813-744-6100 x 386
susan.pelz@dep.state.fl.us

-----Original Message-----
From: PATRICIA BERRY [mailto:BerryP@hillsboroughcounty.org]
Sent: Friday, October 14, 2005 11:58 AM
To: Pelz, Susan
Cc: Larry Ruiz; RSiemering@jea.net
Subject: Air Section Review

Susan, I am writing to inquire about the status of the DEP Air Section's review of the trench/pipe for the Southeast County Landfill Section 7. In order to address the situation in a timely manner, we would like to proceed as soon as possible with the construction of the LFG migration vent trench. Please let me know what, if any, air issues have been determined to be an issue. Thanks for your quick response. Patty

Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Dept.
Hillsborough County, FL
Tel: (813)-276-2908
berryp@hillsboroughcounty.org

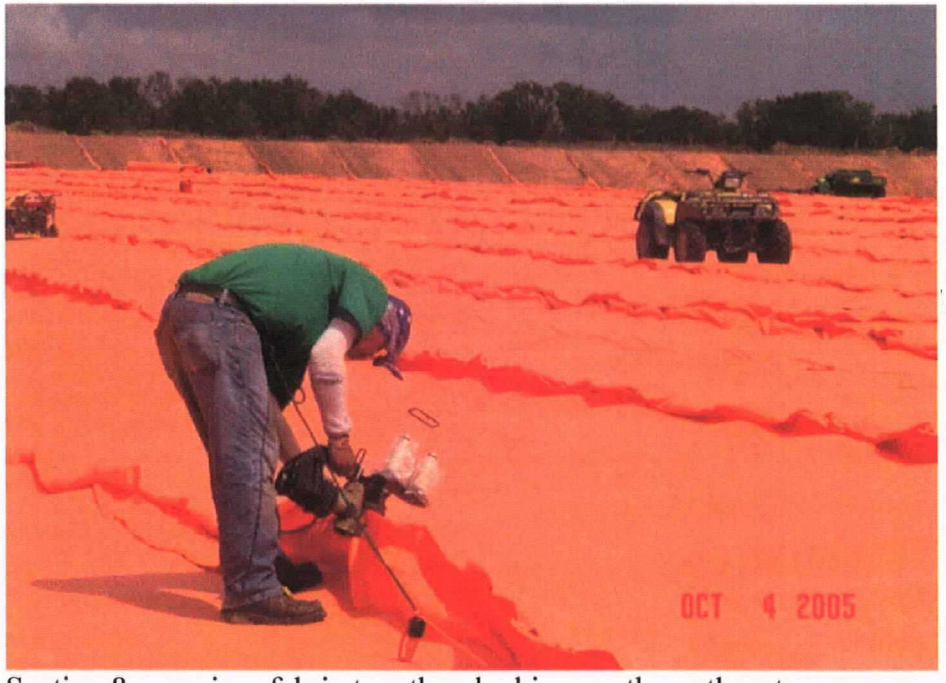
Tracking:

Recipient	Read
'PATRICIA BERRY'	
Larry Ruiz	
RSiemering@jea.net	
Bradley, Christopher	Read: 10/14/2005 12:57 PM
Morris, John R.	Read: 10/14/2005 1:38 PM
Morgan, Steve	Read: 10/14/2005 2:46 PM
Yasin, Mohamed	Read: 10/14/2005 5:27 PM

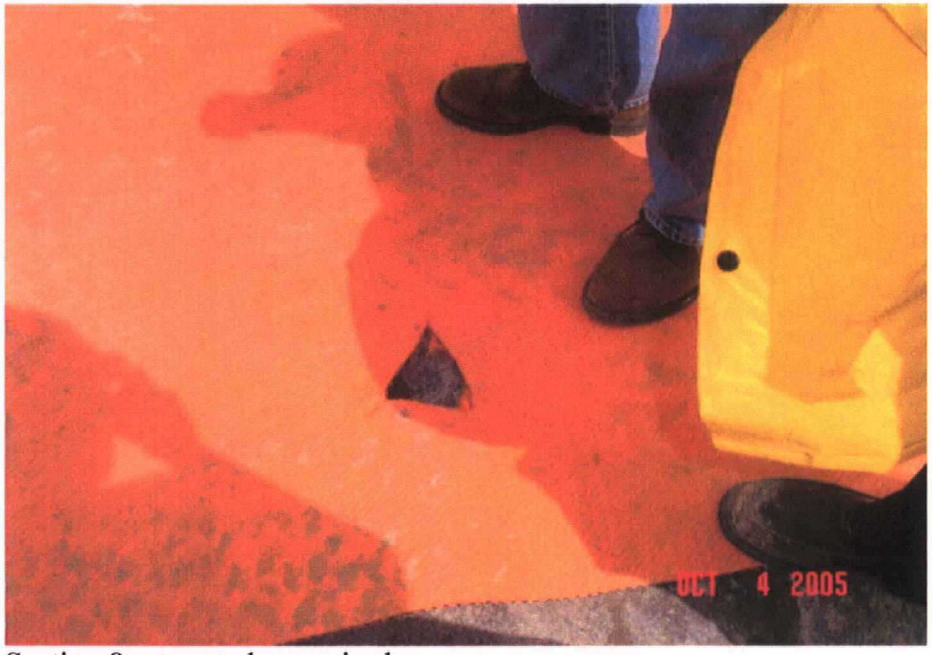
Section 8 – leak detection layer over secondary liner

Section 8 – leak detection layer showing geogrid

Section 8 –collection pipe from Section 7 at left side of photograph



Section 8 – sewing fabric together, looking north-northeast



Section 8 – tear to be repaired

Section 8 – looking across secondary liner at east half toward north

Section 8 – extrusion weld at liner panel seam

Section 8 – irregular subsurface noted within painted circle

Section 8 – from top of Section 7 looking NNE

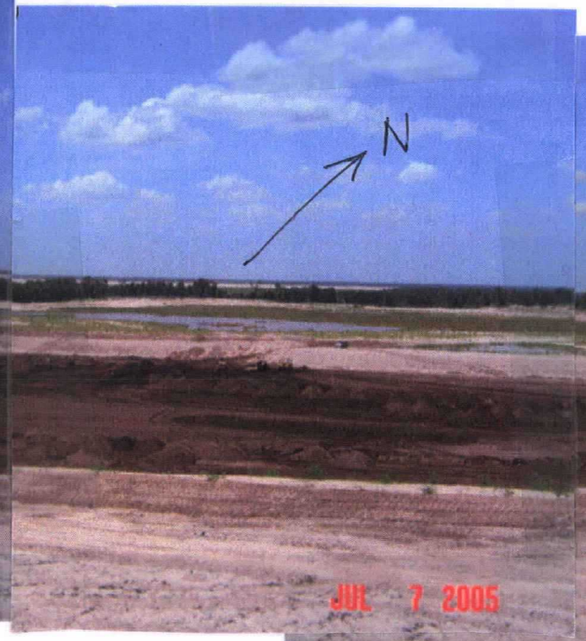
Section 8 – from top of Section 7 looking N

Section 8 – from top of Section 7 looking NNW

Hills Sect 8 constr

Hills Co. SE LF

D. Nichols



Section 8 construction

Environmental Consultants

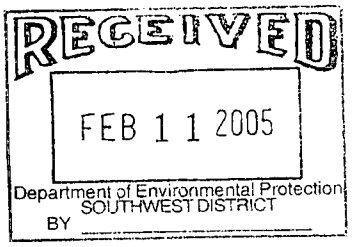
3012 U.S. Highway 301 North
Suite 700
Tampa, FL 33619-2242

100494
813 621-0080
FAX 813 623-6757

SCS ENGINEERS

February 11, 2005
File No. 09200020.35

Ms Susan J. Pelz, P.E. 2/15
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619



Subject: Southeast County Landfill, Hillsborough County
Capacity Expansion Section 8 Construction
Permit Number 35435-009-SC
Construction Schedule

Dear Ms Pelz:

In accordance with the subject permit, Specific Condition 8(a), and on behalf of the Hillsborough County Solid Waste Management Department, SCS Engineers (SCS) is submitting the attached construction schedule for the above referenced project.

If you have any questions, please contact us.

Very truly yours,

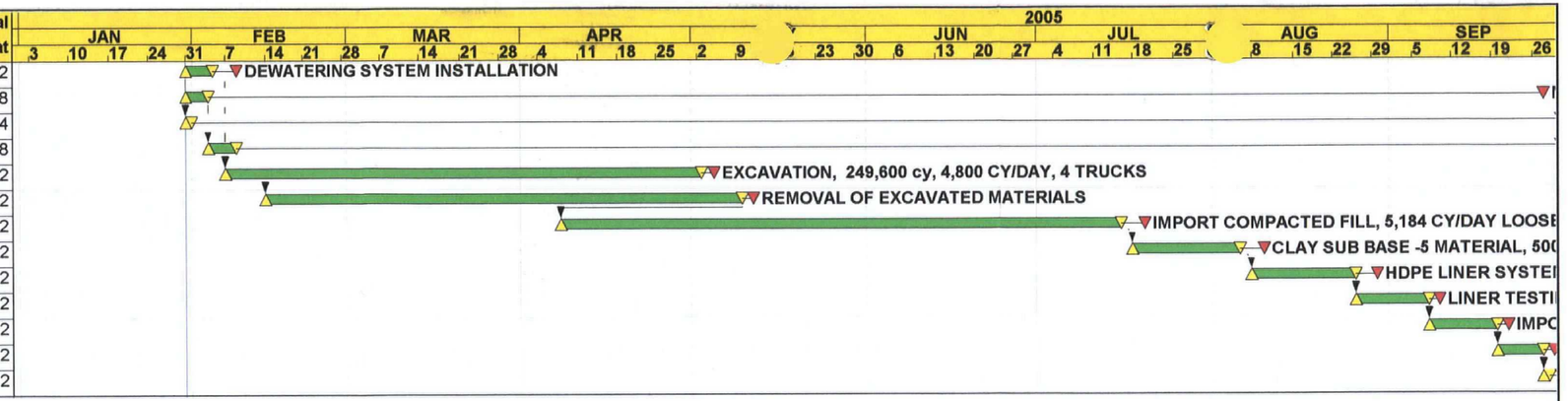
Joseph H. O'Neill, P.E.
Project Engineer

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

Cc: Larry E. Ruiz, SWMD

JHO/RJD:jho

Activity ID	Activity Description	Orig Dur	Rem Dur	%	Early Start	Early Finish	Total Float
DEWTERIN	DEWATERING SYSTEM INSTALLATION	5	5	0	31JAN05	04FEB05	2
MOB	MOBIZE EQUIPMENT	4	4	0	31JAN05	03FEB05	168
SURVEY	PRE-TOPO SURVEY AND EARTHWORK	1	1	0	31JAN05	31JAN05	174
CLEARING	CLEAR AND GRUB	3	3	0	04FEB05	08FEB05	168
DRAGLINE	EXCAVATION, 249,600 cy, 4,800 CY/DAY, 4 TRUCKS	61	61	0	07FEB05	02MAY05	2
STOCKPILE	REMOVAL OF EXCAVATED MATERIALS	61	61	0	14FEB05	09MAY05	2
FILL	IMPORT COMPACTED FILL, 5,184 CY/DAY LOOSE	71	71	0	08APR05	15JUL05	2
CLAY	CLAY SUB BASE -5 MATERIAL, 500 CY/DAY LOOSE	15	15	0	18JUL05	05AUG05	2
LINER	HDPE LINER SYSTEM	14	14	0	08AUG05	25AUG05	2
LINER	LINER TESTING	9	9	0	26AUG05	07SEP05	2
SAND	IMPORT SAND OVER LINER	8	8	0	08SEP05	19SEP05	2
TIRES	12" OF TIRE PLACEMENT	6	6	0	20SEP05	27SEP05	2
DEMOB	DEMOBILIZE EQUIPMENT	1	1	0	28SEP05	28SEP05	2



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
FEB 11 2005
SOUTHWEST DISTRICT
TAMPA

Project Start	31JAN05	Early Bar	HIL8	Sheet 1 of 1
Project Finish	28SEP05	Float Bar	ERC GENERAL CONTRACTING SERVICES, IN	
Data Date	31JAN05	Progress Bar	HILLSBOROUGH COUNTY LANDFILL SECT 8	
Plot Date	26JAN05	Critical Activity	Classic Schedule Layout	

(c) Primavera Systems, Inc.

100494

Environmental Consultants

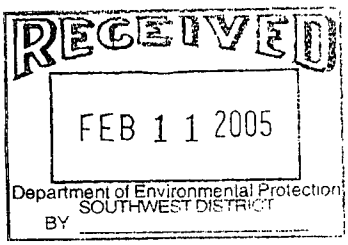
3012 U.S. Highway 301 Nor
Suite 700
Tampa, FL 33619-2242

813 621-0080
FAX 813 623-6757

SCS ENGINEERS

February 11, 2005
File No. 09200020.35

Ms Susan J. Pelz, P.E. 2/15/05
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619



Subject: Southeast County Landfill, Hillsborough County
Capacity Expansion Section 8 Construction
Permit Number 35435-009-SC
Pre-construction Meeting Summary

Dear Ms Pelz:

In accordance with the subject permit, Specific Condition 7, and on behalf of the Hillsborough County Solid Waste Management Department, SCS Engineers (SCS) is submitting the attached summary of the Pre-Construction Meeting conducted for the above referenced project.

If you have any questions, please contact us.

Very truly yours,

Joseph H. O'Neill, P.E.
Project Engineer

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

Cc: Larry E. Ruiz, SWMD

JHO/RJD:jho

Environmental Consultants

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

813 621-0080
FAX 813 623-6757

SCS ENGINEERS

HILLSBOROUGH COUNTY
SOUTHEAST COUNTY LANDFILL, CAPACITY EXPANSION, SECTION 8
PRECONSTRUCTION MEETING SUMMARY
JANUARY 27, 2005, 9:00 AM

ATTENDEES

SCS Engineers

Dennis Adams	(813) 210-1297
Joseph H. O'Neill, P.E.	(813) 621-0080
Sheila Carpenter-van Dijk	(813) 621-0080
Raymond J. Dever, P.E.	(813) 621-0080

ERC

Vaden Pollard	(321) 231-0208
Jerry L. Pinder	(407) 468-1046

Mega Force

Patrick Crawford	(941) 721-7771
Neil Teen	(941) 721-7771

Hillsborough County Solid Waste Management Department

Larry E. Ruiz	(813) 671-7707
Allen G. Munger	(813) 276-2933

The following summary is from the audio recording of, and from comments received from ERC, the County, and SCS on, the pre-construction meeting for the Section 8 project. The summary is SCS Engineers' (SCS) understanding of highlighted subjects discussed at the subject meeting. This summary is intended to highlight and summarize the major topics of discussion during the meeting; however, the audio recording has detailed information on the meeting.

Larry Ruiz chaired the meeting on behalf of Hillsborough County Solid Waste Management Department (County). The attached Record of Preconstruction Conference was distributed to the meeting participants. Each of the 16 items on the attached Record of Preconstruction Conference were discussed as outlined.

In addition to the items listed on the attachment, several items were discussed in further detail and the following is a summary outline of the discussions:

Under **Item # 1, Identification of Official Representatives**, all attendees signed a meeting sign-in sheet. The meeting sign-in sheet is attached to this meeting summary.

The following personnel and their respective roles in the project were identified as follows:

SCS Engineers (Engineers)

Dennis Adams – SCS Full-time On-Site Representative
Joseph H. O'Neill – SCS Project Manager
Shelia Carpenter-van Dijk – SCS Project Engineer
Raymond J. Dever – SCS Project Director/Engineer-of-Record

ERC (Contractor)

Vaden Pollard – ERC On-Site Project Manager
Jerry Pinder – ERC Project Manager

MegaForce (Subcontractor)

Patrick Crawford – Subcontractor Representative for Trucking
Neil Teen – Subcontractor Representative for Trucking

Hillsborough County Solid Waste Management Department (Owner)

Larry E. Ruiz – Hillsborough County Project Manager
Allen G. Munger – Hillsborough County Project Administrator

Under **Item # 2, Responsibilities of Engineer/Professional**, it was discussed that ERC was responsible for performing the work and supervising its personnel. SCS will be on-site and observe the work; however, ERC is responsible for completing the work in accordance with the Contract. SCS will be on-site to observe the work, make contract clarifications, and has the authority to reject defective work.

Under **Item #3, Responsibilities of Owner's Governing Body**, it was discussed that ERC would submit Requests For Information (RFI), in writing to SCS, for approval. An electronic version of the RFI was provided to ERC during the meeting. The Owner will be on-site and will provide direction or clarification only after ERC and SCS had attempted to resolve the issue. The Owner will also provide project data, access to the site, and facilitate payment when due.

The communication protocols for the project were discussed. A project organizational chart was handed out during the meeting. As indicated on the organizational chart, ERC will submit RFI to the SCS field representative, Dennis Adams. In additional all submittal information was to be submitted to the SCS field representative, with the exception of large submittal packages that could be sent directly to SCS's Tampa Office. If submittals were sent to the SCS's Tampa office, then ERC was directed to submit an e-mail confirmation to the SCS field representative for continuity and tracking of submittals. Submittals are to be distributed as follows:

- Two for County's records
- Two for SCS's records
- One for ERC's records

During the meeting it was agreed that the weekly progress meetings would be held every Tuesday at 9:00 am. After the meeting adjourned the first weekly progress meeting was agreed to by SCS, ERC, and the County to begin on February 8, 2005.

Under **Item # 4, Responsibilities of the Contractor**, it was discussed that ERC was to review the contract specifications for the work. ERC requested additional copies of the contract documents. The County directed ERC to coordinate with the County's Purchasing Department or Kinko Copying Center for additional copies. ERC indicated that they recalled the specifications stating that the County would provide five additional copies of the contract documents. SCS and the County indicated that they did not recall that particular item in the contract.

Under **Item #5, Responsibilities of Other Agencies to the Project**, ERC asked if they needed to obtain an NPDES construction permit for stormwater. The County replied that there was a stormwater NPDES permit for the entire landfill site and that they believed that this construction project would be covered under the permit. ERC will be supplied a copy of the permit and ERC was to verify that a separate permit is not required. ERC was checking with on the requirements of obtaining a building permit for supplying electrical power to the project.

Under **Item #6, General Discussion of Contract**, the following items were discussed.

A) The County indicated that there were no Alternative specifications for the project. The County indicated that the project had been permitted by the FDEP and variations would require approval.

B) Contract dates were verified. The official date for the Project Notice to Proceed was January 31, 2005. The working hours were established as Monday through Friday 7:30 a.m. to 5:30 p.m. ERC to submit RFI if working hours requested to be altered. ERC to review contract for

payment of overtime as a result of extended hours. Specific Condition 10(e) of the FDEP construction permit requires agency notification.

C) Substantial Completion for the Project will be September 2, 2005. Final Completion for the Project will be October 2, 2005.

D) The County discussed the Project liquidated damages as discussed in Special Condition Article 6.

E) The County discussed the need for ERC to submit, in writing, a request for time extension within seven days of the occurrence of the cause of the delay. Requests for time submitted after the time period will not be considered.

F) Procedures for partial payment were discussed. ERC and SCS will verify quantities for payment prior to submitting to the County. ERC had prepared a partial payment spreadsheet. The County provided ERC with an electronic copy of the payment request form. The County directed ERC to verify all spreadsheet formulas prior to use. The County informed ERC that the County would review and submit payment requests in compliance with the Florida Prompt Payment Act. The County also reminded ERC to revise the submittal date on payment applications if the County rejected the initial payment application. While reviewing the procedures for submitting pay requests, the County informed ERC that the first pay request may not be submitted any earlier than 30 days after Notice to Proceed.

G) The County discussed that all warranty work, unless specified, would be in effect a minimum of one year from the date of substantial completion.

H) Dewatering and Excavation Plan: ERC stated that they are planning to accelerate construction to try to complete the project before the wet weather season and, as such, would like to commence the project earthwork under a 24-hour per day schedule. SCS responded that ERC would need to submit this request in writing with the specifics of what they wanted to do and how they planned to do it. The County reminded ERC that, per the contract documents, they would be responsible for paying for SCS's additional inspection time if work is conducted outside of the normal working hours specified in the contract documents. ERC indicated that they had been in contact with the personnel involved in the Section 7 construction and took the information gained from that construction into consideration for their work plan for the project. The County indicated that during the dewatering efforts for Section 7, the suction intakes for the pumps were clogged with silt buildup and were not maintained. ERC indicated that silt fences and haybales were to be incorporated in the dewatering plan to minimize silt buildup. SCS indicated that during construction activities,

the siltation from the dewatering of the construction site should be controlled so excessive siltation was not pumped into Basin C.

WMI Borrow Site Access: In discussing the general requirements of the project, it was noted that the Waste Management (WM) haul road that cuts through part of the project area will need to be relocated during the earthwork phase of the project, along with some associated drainage modifications. SCS will revise the relevant sheet of the project drawings to give ERC direction on this work. ERC is responsible for coordinating its work with WM and requested a contact. The County requested that at least initially coordination with WM be done through the County. (WM contact is Ernest Ely, (813) 634-9203.)

Construction Activities and Site Impact: The County and SCS discussed the requirement that the activities of ERC and its subcontractors should not impact the operations of the site.

Clay Borrow Source: SCS discussed the need for ERC to identify and start the testing outlined for the clay soils to be used on the project. SCS discussed the potentially long testing times required for some of the tests to be completed. The County indicated that the leachate to be used for the clay EPA 9100 testing was available on-site. ERC indicated that they would coordinate with Burclaw to check on the testing times.

Excavation and Backfill: ERC stated that they intended to install and monitor settlement plates, in addition to the required pre-construction and post-construction surveys, to help determine earthwork quantities. SCS and the County indicated that there were no objections to this approach in concept, as long as the settlement tubes or pipes extending from the plates were removed prior to the installation of the liner. ERC commented that the tubes or rods would be removed; however, the bottom plates would remain. Discussion followed, concluded by SCS directing ERC to submit the specifics of this request in writing for review and approval. SCS indicated that quantities are to be based upon pre- versus post surveys and the method of verifying settlement was up to ERC.

LFG: SCS discussed that the Project was adjacent to an active disposal cell and all construction activities were to be conducted in compliance with the SWANA LFG practices and procedures. ERC was to include LFG guidelines their Health and Safety plan.

Notification of Geosynthetic Shipment: SCS discussed the need for ERC to notify the Engineer prior to shipment of materials so testing could be completed prior to available of materials at the site. ERC to comply with the time identified in the contract specifications.

I) ERC confirmed receipt from SCS of electronic versions of the project drawings.

J) ERC confirmed receipt of the FDEP Construction Permit for the project.

Under **Item #7, Contractor's Schedule,** it was clarified that ERC needed to supply a separate trailer for SCS, per the contract documents. ERC was intending to supply a single 60-ft trailer for use by both SCS and ERC, but that will not satisfy the contract requirements. ERC proposed to designate this trailer, which was scheduled for delivery to the site on Monday, January 31, as the SCS trailer, and to obtain a second trailer for their own use. Phone service was scheduled for connection to the trailer on Wednesday, February 2, with the following numbers: (813) 634-1897 (voice) and (813) 634-1986 (fax).

ERC submitted a construction schedule for the project for approval during the meeting. SCS to review and approve.

Under **Item #8, Subcontracts**, the County discussed that ERC was responsible for supervision of all subcontractors working for ERC.

Under **Item #9, Request for Information, Allowance Work, and Change Orders**, it was discussed that all Request for Information were to be submitted in writing to the Engineer for approval. The Allowance portion of the contract was for work outside of the contract scope and required County approval.

Under **Item #10, Staking of the work**, it was discussed that ERC was responsible for staking of the project. The County/SCS had supplied ERC with project datum and electronic copies of the project (discussed in earlier Items).

Under **Item #11, Safety and Sanitary Facilities**, it was discussed that ERC was responsible for the Safety and Sanitary facilities of the projects.

Under **Item #12, Final Acceptance of Work**, the County requested that ERC review Section 1700 of the contract specifications.

Under **Item #13, Equal Employment Provisions of the County**, the County discussed the requirement for ERC to comply with the Equal Employment provisions of the contract and to provide a drug free work place during completion of the work.

Under **Item #14, Right-Of-Way and Easement**, the County discussed that ERC was to limit their work to the limits shown on the drawings. The County indicated that the project construction trailers were to be considered a smoke-free area during the project.

During the meeting, it was noted that fishing was not allowed on the property.

The County reminded ERC that they were responsible for maintaining FDOT load limits on haul vehicles. ERC was also responsible for damage that occurred as a result of the use of the haul vehicles during the completion of the project. The County discussed the need for haul vehicles to stop at the scalehouse, at the posted stop sign, for the purposed of identifying subcontractors on-site. The County indicated that the scales at the County scalehouse were not to be used to weigh haul vehicles. The County and SCS indicated that ERC was to maintain the roads during the completion of the project and any debris was to be removed from the roads or safety problems corrected with the roads immediately so as not to impact facility operations. The County also reminded ERC that any damage to the asphalt roads was to be repaired by ERC. SCS indicated that the Engineers was going to video tape the roads prior to use by haul vehicles. The County also reminded ERC that all haul vehicles were to maintain tarp covers over the loads.

The County reminded ERC of the speed limits for the facility.

Under **Item #15, Placement of Project Signs and Posters**, the County discussed that a project sign would be provided by the County and the placement would be as directed by the County.

Under **Item #16, Handling Disputes**, the County discussed that SCS was authorized to make interpretations of the contract. ERC has seven days to submit any disagreement with the interpretations made by SCS.

Representatives of the County, SCS, and ERC signed a copy of the Record of Preconstruction Conference, and the meeting was adjourned.

HILLSBOROUGH COUNTY
SOLID WASTE MANAGEMENT DEPARTMENT

RECORD OF PRECONSTRUCTION CONFERENCE

DATE: January 27, 2005

Name of Owner: Hillsborough County Solid Waste Management Department	Address (Zip code & Telephone): P.O. Box 1110 Tampa, FL 33601-1110 (813) 276-2933
Name Of Engineer (Firm): SCS Engineers	Address (Zip code & Telephone): 3012 U.S. 301 North Suite 700 Tampa, FL 33619 (813) 621-0080
Name Of Construction (Firm): ERC General Contracting Services, Inc.	Address (Zip code & Telephone): 890 Carter Road, Suite 170 Winter Garden, FL 34787 (407) 656-3900

Location Of Conference: Southeast County Landfill 15960 C.R. 672 Lithia, Florida 33547

SUBJECT TO BE DISCUSSED

1. Identification of Official Representatives: Distribute attendance sign-in sheet. All attendees must identify themselves and association for the record.

2. Responsibilities of Engineer/Professional: Engineer does not Supervise, that is the Contractor's responsibility (Specification Section 01400). Presence of Engineer does not relieve the Contractor from its obligation to perform the work in accordance to the Contract. The Engineer will be on site full-time to provide Construction quality assurance, Contract clarifications, and has the authority to reject defective work (General Conditions Article 10).

3. Responsibilities of Owner's Governing Body: Described in the General Conditions (GC) Articles 5 and 9. The owner will facilitate communication, provide data required under the Contract, provide access to the project site, and make payments when due. The Project Manager will be on site part-time to observe construction and attend the progress meetings. Discuss communication protocol.

4. Responsibilities of Contractor: Advise that the Contractor review the entire Contract Terms and Drawings.

5. Responsibilities of Other Agencies to the Project:
The Contractor is responsible to obtain any other permits required (GC Article 7.6). Contractor to provide a list of licenses and permits to be obtained during completion of the project.

6. General Discussion of Contract:

A. Alternative Specifications: There are no alternative Specifications, the Project must be completed as permitted. Any deviations will require prior written approval. Substitution of materials "must" be pre-approved by Engineer/Project Manager (GC Article 7.3).

B. Initiating Construction: Discuss Notice to Proceed (NTP) date. Working hours Monday through Friday 7:30 A.M. to 5:30 P.M. (Specifications Section 01010 Part 1.08). Discuss Construction Permit Specific Condition 10(e); Discuss overtime.

C. Completion Time for Contract: Discuss Special Conditions Article 6.

D. Liquidated Damages: Discuss Special Conditions Article 6.

E. Request for Extension of Time: Time extension must be pre-approved. Request must be in writing within (7) days after the occurrence first happening (GC Article 13).

F. Procedures for Making Partial Payments: Presented in GC Article 15. Retainage of (10%) will be withheld. Provide to Contractor an electronic Application for Payment form.

G. Guarantee on Completed Work: Unless other requirements apply, all materials, and installed equipment are required to have a (1) year warranty from the date of Substantial Completion (GC Article 14).

H. Other Requirements of the Contract/Specifications which Deserve Special Discussions by all Parties: Dewatering Plan -- Section 02140 (sedimentation areas); Excavation Plan (Section 02220); WMI site borrow area access (Specifications Section 01500 Part 1.11); Construction activities should not impact site operations; Obtain clay borrow source as soon as possible (testing of clay soils per Section 2221 may require extensive time) ; Excavation/backfill will be paid based on site surveys; LFG control adjacent to Section 7, use SWANA practices and procedures (Special Conditions Article 7); Contractor notification to Engineer required prior to shipment of geosynthetic materials (Section 02776);

I. Electronic File – Contractor to confirm receipt of electronic AutoCAD files for the project.

J. FDEP Construction Permit 35435-009-SC – Contractor to confirm receipt of FDEP construction permit (for information only).

7. Contractor's Schedule:

A. Analyze Work Schedule in Sufficient Detail to Enable Engineer to Plan His Operations:
Consideration must be given to needs of the Owner and the planned operations of other Contractors on site conducting other work (WMI).
Contractor must provide an updated schedule at each weekly progress meeting (Specifications Section 01311 Part 1.02).

B. Equipment to be Used by Contractor:

C. Contractors Plans for Delivering Materials; trailers, and utilities to Project:

8. Subcontracts: The Contractor is fully responsible for its subcontractors (GC Article 7.4).

9. Requests for Information, Allowance Work, and Change orders: All requests for information must be submitted in writing to the Engineer. All changes must be approved prior to implementation including any Allowance work under GC Article 21. The procedure to be followed and clearance which must be obtained before changes are implemented are presented in GC Article 11.

10. Staking of Work: The Contractor is fully responsible for staking the work (Specifications Section 01050). The Owner and Engineer will observe the work.

11. Safety and Sanitary Facilities: The contractor is responsible for the project safety and to provide sanitary facilities (Specification Sections 01500 and 01800).

12. Final Acceptance of Work: Will be per the Contract requirements of the Specifications Section 01700.

13. Equal Employment Provisions of Contract: The Contractor is responsible to comply with the Contract affirmative action requirements and to maintain a drug free work place.

14. Right-of-Way and Easements:

A. Explain any portion of Project not available to Contractor:
The Contractor shall limit his Work to the limits of construction shown on the drawings. Fishing is not allowed on the property. Smoking is not allowed in the field offices and within the limits of Sections 7 and 8.

B. Coordination with Railroads, Highway Departments and other organizations:
The Contractor is responsible for maintaining the FDOT load limits of the hauling trucks. The Contractor is responsible for controlling the hauling trucks to comply with speed limits within the property. Hauling trucks will not be allowed to weight-in/out across the landfill scales. Any damage to the paved roads will be repaired by the Contractor at no additional cost to the County (Specifications Section 01500 Part 1.11).

15. Placement of Project Signs and Posters: Project sign is required for the project (Special Conditions Article 14). The County will provide the sign and the Contractor will be responsible for installation at the location designated by the Project Manager.

16. Handling Disputes: As previously discussed the Engineer/Professional makes interpretations of the Contract (GC Article 10.6). If the Contractor disagrees with the Engineer's interpretation then the Contractor must notify the Project Manager in writing within (7) days of the occurrence first happening.

NOTED AND CONCURRED WITH, but understood not to be a modification of any existing contract agreement:

Title:	(Contractor's Rep.)	Superintendent	(Contractor's Rep.)
~~Title~~:	(Engineer's Rep.) Project Manager	Res. Project Mgn.	(Engineer's Rep.)
Title:	(Owner's Rep.)	Field Rep.	(Owner's Rep.)

Pre-Construction Meeting

Print	Firm	Contact Info
Joseph O'Neill	SCS	(813) 621-0080
Vaden Pollard	ERC	(321) 231-0208
Patrick Crawford	Mega Force	(941) 721-7771
Jerry L. Pinder	ERC	(407) 468-1046
Dennis Adams	SCS	(813) 210-1297
Raymond Dever	SCS	(813) 621-0080
Allen G. Munger	ACSWMD	813-276-2933
Sheila Carpenter-VanDijk	SCS	813-621-0080
Neil Tenn	Mega Force	(941) 721-7771

construction permit

Pelz, Susan

From: Joe O'Neill [joneill@scsengineers.com]
Sent: Wednesday, January 19, 2005 6:32 PM
To: Pelz, Susan
Cc: joneill@scsengineers.com; Larry Ruiz
Subject: RE: Hillsborough Co - Section 8 pre-construction meeting

Good Morning Susan,
Re: Pre-construction Meeting
Section 8, Southeast County Landfill
Hillsborough County, Florida

The pre-construction meeting scheduled for tomorrow has been cancelled. I will forward a new schedule as soon as it is available. It will be tentatively re-scheduled for the week of January 24-28, 2005.

Thanks

Joseph H. O'Neill, P.E.
3012 US Hwy 301 North, Suite 700
Tampa, Florida 33619-2242
(813) 621-0080 Phone
(813) 623-6757 fax
joneill@scsengineers.com

Environmental Consultants

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

813 621-0080
FAX 813 623-6757

SCS ENGINEERS

January 14, 2005
File No. 09200020.35

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

Subject: Southeast County Landfill, Hillsborough County
Capacity Expansion Section 8 Construction
Permit Number 35435-009-SC
Pre-construction Meeting

Dear Ms Pelz:

In accordance with the subject permit, Specific Condition 7, and on behalf of the Hillsborough County Solid Waste Management Department, SCS Engineers (SCS) is notifying the Florida Department of Environmental Protection (FDEP) of a tentative scheduled date for the Pre-construction meeting.

The Pre-construction meeting is scheduled for Thursday, January 20, 2005 at 2 p.m. at the Southeast County Landfill Administrative Offices.

If you have any questions, please contact us.

Very truly yours,

Sheila Carpenter-van Dijk, E.I.
Project Engineer

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

RECEIVED
JAN 19 2005
Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

Cc: Patty V. Berry, SWMD

SCV/JHO: scv

Environmental Consultants

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

813 621-0080
FAX 813 623-6757

SCS ENGINEERS

January 14, 2005
File No. 09200020.35

1/18/05

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

Post-it® Fax Note 7671	Date 1-14-05	# of pages ▶ 1
To SUSAN	From SHEILA	
Co./Dept. FDEP	Co. SCS	
Phone #	Phone #	
Fax #	Fax #	

Subject: Southeast County Landfill, Hillsborough County
Capacity Expansion Section 8 Construction
Permit Number 35435-009-SC
Pre-construction Meeting

Dear Ms Pelz:

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If you have any questions, please contact us.

Very truly yours,

S. van Dijk

Sheila Carpenter-van Dijk, E.I.
Project Engineer

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

Cc: Patty V. Berry, SWMD

SCV/JHO: scv

Memorandum

Florida Department of Environmental Protection

PERMIT COVER MEMO

TO: **DEBORAH A. GETZOFF, Director of District Management**

FROM/THROUGH:
William Kutash — **ENVIRONMENTAL ADMINISTRATOR**
Susan Pelz, P.E. 9/1/04 — **SOLID WASTE MANAGER**

DATE: *September 1, 2004*

FILE NAME: **Hillsborough Co SELF-Sect.8** **PERMIT #:35435-009-SC**
PROGRAM : Solid Waste **COUNTY : Hillsborough**

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

PUBLIC NOTICE PERIOD CLOSED? YES **PETITION FILED?** NO
No petitions as of 9/1/04 830am checked LCT

PERMIT SUMMARY: This permit is for construction of a lateral expansion (Section 8) of the existing Hillsborough County Southeast Class I landfill. The facility is a lined Class I landfill, and the site includes Class I disposal, leachate treatment and storage facilities and a waste tire processing facility (separate permit). The application does not include operational information. This information will required as part of a separate operation permit application or substantial modification.

PROFESSIONAL RECOMMENDATION: **X APPROVE** **DENY**

EVALUATION SUMMARY: The applicant has provided the required documentation and financial assurance.

Total processing time (TIH)- 205 days (to 09/01/04)
Department processing time (TTP) - 119 days (to 09/01/04)

		TTP
Application received	02/09/04	
RAI #1 sent	03/10/04 (KF)	30
Response received	04/23/04	
Application complete	04/23/04 (KF/SJP)	
Intent to Issue and draft permit to applicant	07/20/04 (SJP)	89
Comments from applicant rec'd	07/28/04	
Proof of publication rec'd Active 9/1/04, Day 90	08/18/04	
Final permit for routing	09/01/04	0

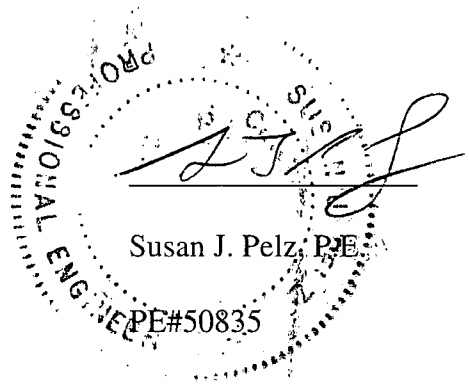
DAY 90/30 FOR THIS ACTION IS: ASAP - TODAY, day 90=9/01/04

BEST AVAILABLE COPY

CERTIFICATION

Application/Modification #35435-009-SC, Hillsborough County Southeast Landfill, Section 8 Construction

I hereby certify that the engineering features described in the above-referenced application **provide** reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida administrative Code Chapter 62-701. However, I have not evaluated and I do not certify aspects of the proposal outside my area of expertise (including but not limited to the electrical, mechanical and structural features).



Susan J. Pelz, P.E.

PE#50835

9/1/04

date

7002 3150 0003 8459 6153

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Hillsborough County
Solid Waste Management Department
c/o Mr. Daryl Smith, Director
Street, Apt. or PO Box N
PO Box 1110
City, State, Z
Tampa, FL 33601

PS Form 3800, June 2002 — See Reverse for Instructions

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write *"Return Receipt Requested"* on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

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

4a. Article Number
7002 3150 0003 8459 615[illegible]

4b. Service Type
☐ Registered ☐ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

5. Received By: *(Print Name)*

8. Addressee's Address *(Only if requested and fee is paid)*

6. Signature: *(Addressee or Agent)*
X

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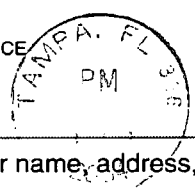

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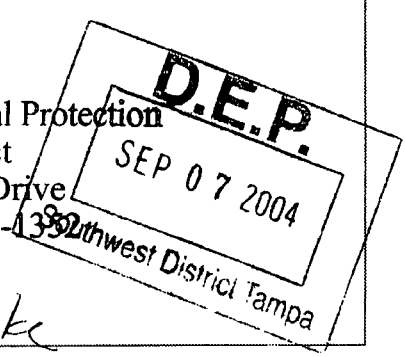
State of Florida
Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619-1352



Susan Pelz - Solid Waste

33619+1352

Department of Environmental Protection

Jeb Bush
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Colleen M. Castille
Secretary

CERTIFIED MAIL 7002 3150 0003 8459 6153 September 1, 2004
RETURN RECEIPT REQUESTED

In the matter of an
Application for Permit by:

DEP File No. 35435-009-SC,
Hillsborough County

Hillsborough County Solid Waste Management Dept.
Mr. Daryl Smith, Director
P.O. Box 1110
Tampa, Fl. 33601

NOTICE OF PERMIT

Enclosed is Permit Number **35435-009-SC,** issued pursuant to Section(s) 403.087(1), Florida Statutes, for construction of the lined, Class I landfill referred to as Section 8 of the Hillsborough County Southeast Landfill.

Any party to this Order (permit) 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, 3900 Commonwealth Blvd., Mail Station 35, Tallahassee, 32399-3000; 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 this Notice is filed with the Clerk of the Department.

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Deborah A. Getzoff
Director of District Management
Southwest District

CERTIFICATE OF SERVICE

This undersigned duly designated deputy clerk hereby certifies that this **NOTICE OF PERMIT** and all copies were mailed before the close of business on Sept. 1, 2004 to the listed persons.

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to Section 120.52(10), Florida Statutes, with the designated Department, Clerk, receipt of which is hereby acknowledged.

Anna Black 9/1/2004
Clerk Date

DAG/sjp
Attachments
Copies furnished to:
Hillsborough County Notification List
Hillsborough County Elected Officials
Raymond Dever, P.E., SCS Engineers, Inc., 3012 US Highway 301 North, Suite 700, Tampa, Fl. 33619
Ron Cope, HCEPC
Douglas Beason, FDEP OGC Tallahassee
Fred Wick, FDEP Tallahassee
Richard Tedder, P.E., FDEP Tallahassee
Yanisa Angulo, P.E., FDEP Tampa, (stormwater)
permit notebook

Department of Environmental Protection

Jeb Bush
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Colleen M. Castille
Secretary

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

PERMIT/CERTIFICATION
WACS ID No: SWD/29/41193
Permit No: **35435-009-SC**
Date of Issue: **09/01/2004**
Expiration Date: **07/15/2009**
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 Section 8 construction

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-302, 62-330, 62-520, 62-522, 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 construct a expansion to a **Class I Solid Waste Landfill** (approximately 6.8 acres), referred to as **Section 8 of the Southeast County Landfill**, subject to the specific and general conditions attached, for solid waste disposal, located **8.8 miles east of U.S. Highway 301 North on County Road 672,** Hillsborough County, Florida. The general and specific conditions attached are for the construction only of:

1. Class I landfill

General Information - Section 8

Disposal acres	6.8 acres
Lowest Bottom elevation of cell	+131.5 NGVD (southwest corner of Section 8) [ref. #2.b., Sheet 4 of 9]
Top elevation at buildout (including cover)	Approx. +285 feet NGVD (Section 8 only) [ref. SC#2.a(3), page 7 of 8]
Liner system (bottom to top)	Subbase soil ($k \leq 1 \times 10^{-5}$ cm/sec), 60 mil textured HDPE, triplanar geocomposite drainage net, 60-mil textured HDPE, triplanar geocomposite, 12-inch protective sand layer, 12-inch tire chip layer [ref. #2.a(1)-Specs: 02776-1.01.B., 02930-1.01.A.; SC#2.b., Detail 1, Sheet 8 of 9]
LCS/drainage layer & LDS	Drainage/protective sand $\geq 1 \times 10^{-3}$ cm/sec; tire chips; woven geotextile wrapped around LCS gravel & pipes; three perforated 8-inch diameter SDR 17.5 HDPE collection laterals, connecting to Section 7 LCS pipes at south end of Section 8; LDS is triplanar composite geonet [ref. SC#2.a(1)-Specs. 02940-1.01.A, 02930-1.01.A.; SC#2.b., Sheet 5 of 9]
Leakage action rate (LDS)	164 gallons/acre/day [ref. SC#2.c(1), sheet 5 of 5]

Replaces Permit No.: N/A, new

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.

"More Protection, Less Process"

Printed on recycled paper.

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.

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.

GENERAL CONDITIONS:

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

(a) A description of and cause of noncompliance; and

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

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

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

10. The permittee agrees to comply with changes in Department rules and Florida Statues 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

GENERAL CONDITIONS:

14. The permittee shall comply with the following:
(a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

(b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

(c) Records of monitoring information shall include:
1. the date, exact place, and time of sampling or measurements;
2. the person responsible for performing the sampling or measurements;
3. the dates analyses were performed;
4. the person responsible for performing the analyses;
5. the analytical techniques or methods used;
6. the results of such analyses.

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

SPECIFIC CONDITIONS:

1. **Facility Designation.** This site shall be classified as a solid waste Class I landfill, and shall be constructed in accordance with all applicable requirements of Chapters 62-4, 62-302, 62-330, 62-520, 62-522 and 62-701, Florida Administrative Code.

2. **Permit Application Documentation.** This permit is valid for construction only of Section 8 of the Hillsborough County Southeast Class I Landfill in accordance with the reports, plans and information submitted by SCS Engineers, Inc. (unless otherwise noted), as follows:

a. Construction Permit Application, Southeast County landfill Capacity Expansion - Section 8, Hillsborough County,… (one 3-ring bound document) dated February 4, 2004 (received February 9, 2004) and supporting information including revised information dated April 23, 2004 (received April 23, 2004) and June 18, 2004 (received July 29, 2004)(pages inserted into original). This information includes, but is not limited to:

1) *Attachment H-1,* Technical Specifications [Spec.],
2) *Exhibit A of Attachment H-1,* Construction Quality Assurance Plan [CQAP], and
3) *Attachment H-2,* Design Calculations for Bottom Liner Components;

b. Plan Sheets titled, Southeast County Landfill Section 8 Capacity Expansion,… (9 sheets) received February 9, 2004 including revised sheets received April 23, 2004 (sheets 3, 7, 8 and 9 of 9);

c. The following information from the March 2000 Construction Permit Application Section 1 Class I Capacity Expansion, Southeast County Landfill,… (Volume 1 of 3 unless otherwise noted) including revised information inserted into original received May 17, 2000, and July 13, 2000 as follows. [Note: Section 1 was subsequently renumbered Section 7.] Portions of these documents not specifically referenced in this Specific Condition are not valid for this permit:

1) *Attachment G-3,* Leachate Generation Analysis,
2) *Attachment G-4,* Design Calculations for Bottom Liner Components,
3) *Section H,* Hydrogeological Investigation Requirements,
4) *Section I,* Geotechnical Investigation Requirements;
5) *Hydrogeological/Geotechnical Investigation,* prepared by Barnes, Ferland and Associates, Inc., dated September 1997, (received as Volume 2 of 3 of the March 2000 construction application);

and in accordance with all applicable requirements of Department rules.

3. **Permit Modifications.**

a. Any construction or operation 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. Any significant changes to the construction or operation at the facility shall require a permit modification. Permits shall be modified in accordance with the requirements of Rule 62-4.080, F.A.C. A modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review by the Department is considered a substantial modification.

SPECIFIC CONDITIONS:

(Specific Condition #3, cont'd)

b. This permit authorizes **construction** of Section 8 disposal area only. This permit **does not authorize** the operation of Section 8. Operation of Section 8 shall require a new permit or substantial modification of Operation Permit 35435-007-SO. The operation permit application shall include, but not be limited to:

1) pipe strength (crushing, buckling, ring deflection) calculations for the pipe used for Section 8 LCS (i.e., 8-inch diameter SDR 17 HDPE pipe);

2) revised slope stability and settlement calculations based on the as-built and proposed operation configurations of Section 8. The settlement calculations shall demonstrate that the LCS piping will continue to function adequately after the expected maximum settlement in Section 8;

3) a closing and long-term care plan, including description of the final cover and gas collection system;

4) revised financial assurance cost estimates;

5) plan sheets showing the method and sequence of filling, including proposed schedule for construction, operation and closing;

6) revised LDS flow capacity calculations that include leakage action rates used in the March 2000 construction submittal [ref. SC#2.c(2)];

c. Leachate recirculation or irrigation is not authorized in Section 8 [ref. SC#2.a, Section H.4.].

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.

5. **Prohibitions.** The prohibitions of Rule 62-701.300, F.A.C., shall not be violated by the activities at this site.

a. In the event that limestone is encountered during excavation or construction activities, the excavation/construction activities shall cease and the Department shall be notified **within 72 hours of discovery**. Written notification shall be submitted **within 7 days of discovery**. The written notification shall include the location, elevation, and extent of limestone noted on a plan sheet, a description of the materials encountered, and a plan of action which ensures that groundwater will not be adversely affected by the continued construction and operation of the facility. Excavation or construction activities shall not resume in the affected area until the Department-approved plan of action has been completed.

SPECIFIC CONDITIONS:

(Specific Condition #5, cont'd)

b. In the event that surface depressions which may be indicative of sinkhole activity, or subsurface instability, are discovered onsite, or within 500 feet of the site, the Department shall be notified **within 24 hours of discovery.** Written notification shall be submitted **within 7 days of discovery.** The written notification shall include a description of the depression, the location and size of the depression shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. The permittee shall ensure that no construction activity (e.g., dewatering activities) results in violation of Department rules or standards. The permittee shall ensure that flooding in the downstream area does not occur and sedimentation and turbidity are in compliance with Department standards. [Spec. 02140-3.02.B.]

6. **Pre-Construction Submittals.**

a. At least thirty (30) days prior to initiation of any construction activity, unless otherwise specified, the permittee shall submit the following information to the Department:

1) A complete set of Plans, Specifications and CQA Plan to be used for construction which includes all changes (i.e., all additions, deletions, revisions to the plans previously approved by the Department). Significant changes in the plans, as determined by the Department, shall require a permit modification. All changes in the plans shall be noted on the plans and accompanied by a narrative indicating the change, the cause of the deviation, and a re-certification of the alternate design by the design engineer. These alternate designs shall be approved by the Department prior to construction. **If no changes have been made** to the construction plans, Specifications or CQA Plan, the permittee shall notify the Department in writing that no changes have been made, and re-submittal of these documents will not be required prior to construction.

2) New or revised plan sheets which include: a NW-SE cross-section and a NE-SW cross-section (along the leachate collection trench) across the entire footprint of Section 8. The location of the cross-sections should also be shown on Sheet 5 of 9.

b. No later than seven (7) days prior to initiation of any construction activity, unless otherwise specified, the permittee shall submit the following information to the Department:

1) An organizational chart including the role and name of the specific company/organization for each of the parties in the Project team; and

2) The dewatering plan required by Specification Section 02140-1.03.A.

7. **Pre-Construction Meeting Notification.** Department Solid Waste Permitting staff shall be notified **at least one (1) week prior** to the pre-construction meeting to allow Department staff attendance at the meeting. Prior to initiating construction activities, the permittee shall make arrangements for the Engineer of Record to meet on site and discuss all plan changes with Department Solid Waste Permitting Staff of the Southwest District Office. A copy of the minutes from the pre-construction conference shall be submitted to the Department **within two (2) weeks** of the conference.

SPECIFIC CONDITIONS:

8. **Construction Schedule and Progress Report.**
a. **No later than fifteen (15) days after** the pre-construction conference, the owner or operator shall submit a construction schedule which includes estimated dates for each portion of the construction to the Department. The Engineer of Record or another qualified professional engineer shall make periodic inspections during construction to ensure that design integrity is maintained.

b. An updated construction schedule and progress report shall be submitted to the Department **monthly, by the 15th each month.** The monthly progress report should be submitted in an appropriately labeled three-ring binder of sufficient size to store the monthly progress reports for the entire project. The monthly progress reports shall include, but not be limited to:

1) A narrative explaining the status (and any delays) of major stages of the construction (i.e., liner, GCL, tanks, piping, liner penetrations, etc.),

2) A summary of submittals and change order requests,

3) Weekly progress meeting minutes [Spec. 01311-1.02; CQAP 4.2], and

4) Color copies of photographs which are representative of the typical construction activities for the reporting period, and photographs which show overall views and details of major stages of construction (e.g., liner penetrations, lift station construction, tanks construction, etc.).

9. **Construction Tolerances.**
a. Pipe invert elevations for the leachate collection system piping shall be noted every 50 linear feet along the pipe and at each change in direction and elevation [Spec. 01050-1.04.C.5.] to demonstrate that the leachate collection system has been constructed to the slopes and grades shown on the drawings. This information shall be included with the Record Documents.

b. As-built topographic surveys shall demonstrate that each liner component, subgrade, subbase, top of sand drainage layer, leachate collection system, piping, etc., was constructed within the tolerance (±0.2 feet vertical and ±0.5 feet horizontal) required by the Drawings and Specifications. [Spec. 01050-3.03.A.]

10. **Construction Quality Assurance.**
a. Liner systems shall have a construction quality assurance plan to provide personnel with adequate information to achieve continuous compliance with the construction requirements. The Construction Quality Assurance Plan shall be in accordance with Rules 62-701.400(7) and (8), F.A.C., the CQA Plan [ref. SC#2.a(2)], and the conditions of this permit. The professional engineer or his designee shall be on-site at all times during construction (including liner system and leachate collection system) to monitor construction activities.

b. A complete set of construction drawings and shop drawings, which include daily additions, deletions and revisions, shall be maintained on-site at all times for reference. [Spec. 01300-1.07.B.] Drawings which show the locations of geomembrane panel seams and repairs shall be kept on-site at all times for reference.

SPECIFIC CONDITIONS:

(Specific Condition #10, cont'd)

c. Leachate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to the land, surface water or groundwater outside the liner system at any time during the construction activities.

d. Unsatisfactory, defective or non-conforming work shall be reported to the Engineer and shall be corrected, or the reasons for not correcting the work shall be recorded and maintained onsite for reference and inspections. Documentation of the corrections or reasons for not correcting the work shall be submitted with the Record Documents required by Specific Condition #16.

e. Construction activities such as geomembrane seaming, QA/QC testing of the geosynthetics or soil materials, surveying, etc. shall not be carried out in non-daylight hours without prior Department approval. [see Spec. 02776-1.04.K, 3.04.J] If these activities will be conducted during nighttime hours, the Department shall be notified **at least 72 hours in advance** to allow for Department observation. This notification shall include a description of the methods which will be used to provide adequate illumination to ensure that the quality of the construction is not compromised.

f. The soil subbase material shall be tested for % fines (ASTM D-1140) in accordance with Rule 62-701.400(8)(d), F.A.C. [see Spec. 02221-3.02.F.1.] The compacted soil subbase shall be tested at the frequencies listed in Table 02221-1 except that four thickness measurements shall be taken per acre per lift, and all testing frequencies on the soil subbase shall be doubled for the first five acres of construction. [Rule 62-701.400(8)(e), F.A.C.]

g. All excavations shall be maintained free from standing water. Except for the stormwater management system construction, no construction, including pipe laying, shall be allowed in water. Groundwater shall be maintained at least 2 feet below excavations. [Spec. 02140-3.01.B.] In the event that it appears that the excavation is being impacted by groundwater, the contractor shall take the corrective actions necessary to demonstrate that the groundwater is sufficiently below the bottom of the excavation.

h. Sandbags or other temporary anchoring devices shall be removed prior to subsequent placement of materials over the geosynthetics.

i. Where sod is used over lined areas, pegging of sod shall not damage the liner.

11. **Geosynthetic Materials.**

a. Smooth geomembranes [Spec. 02776-1.01.B.] or geosynthetic clay liners [see CQAP 6.4] are not authorized for use in the Section 8 construction project.

b. Seaming.

1) Seaming processes other than fusion or extrusion welding shall be approved by the Engineer and submitted to the Department prior to implementation.

2) Seaming apparatus or personnel which have failed trial welds shall not be used for seaming until passing welds are achieved.

SPECIFIC CONDITIONS:

(Specific Condition #11.b. cont'd)

3) Geomembrane seaming activities shall only be conducted during daylight hours and within the weather requirements of the Specifications, unless otherwise specifically approved by the Department. Seaming shall only take place with the "master seamer" present. [Spec. 02776-1.04.K, 3.04.J] No geomembrane seaming shall be performed unless the CQA Consultant is on-site.

4) The procedure used to temporarily bond adjacent geomembrane panels together shall not damage the geomembrane.

c. Conformance testing for the geosynthetic materials shall be in accordance with the CQAP Sections 6.1.2.2 (geomembrane), 6.2.2 (geotextiles), 6.3.3 (geocomposites) and the Specifications. The geosynthetics shall meet the requirements listed in Specification Tables 02776-2 (geomembrane), 02930-1 (geonet), 02930-2 (geotextile), and 02930-3 (geocomposite), or this permit, whichever is more stringent. Conformance testing of the geomembrane shall include stress crack resistance and oxidative induction time. In all cases, the test results shall meet or exceed the property values in the Specifications.

d. The construction methods used shall minimize wrinkles. Excessive wrinkles shall be removed, and the areas repaired. Areas where wrinkles are removed shall be repaired and re-tested in accordance with the Specifications and CQA Plan. [Spec 02776-3.04.K.]

e. The liner system shall not be damaged by excessive traffic.

f. Destructive testing.

1) Destructive tests of the geomembrane seams shall be taken at random locations, at a minimum frequency of one test location per 500 feet of seam. [Spec. 02776-3.05.B.1.] This frequency shall not be based on an average throughout the entire facility.

2) Destructive tests conducted on the geomembrane field seams shall demonstrate that the actual shear strength is at least 90 percent of the yield strength of the geomembrane, and failure is outside of the seam area. All of the samples shall meet the requirements for each test method (peel and shear) listed in Geomembrane Specifications, Table 02776-2. The strength results shall not be averaged and both sides of fusion welds shall be tested. [CQAP 6.1.9.4]

3) Work shall not proceed with any materials which will cover locations which have been destructively tested or repaired until laboratory test results which demonstrate passing values are provided to the onsite CQA manager/inspector.

g. Prior to placement of materials on the subbase, an as-built topographic survey shall be provided to the Engineer to verify conformance with the Drawings and Specifications. Each subbase shall be accepted by the Liner Installer and Engineer in writing before placement of the next layer. [Spec. 02776-1.04.J; CQAP 6.1.3]

h. During the construction of, and until the geomembrane is placed on the subbase, the subbase shall be inspected daily for signs of desiccation, excessive moisture, or other damage. [Spec. 02221-3.03.J.] In the event that the condition of the subbase deteriorates, corrective actions shall be implemented immediately. Washouts or erosion of the geomembrane subbase shall repaired immediately.

SPECIFIC CONDITIONS:

(Specific Condition #11, cont'd)

i. No geomembrane shall be placed in an area that has become softened by precipitation or desiccated and cracked due to lack of moisture. [Spec. 02221-3.03.J.] No standing water or excessive moisture shall be allowed on the area to be lined before the geomembrane installation.

j. The geocomposite drainage material (CDN) and geotextile shall be handled (stored, placed, etc.) in a manner which prevents the infiltration of dirt and protects the CDN and geotextile from abrasion, punctures and excessive moisture.

k. The transmissivity of the geocomposite drainage material shall be a minimum of 3.7×10^{-3} m^2/sec based upon a gradient of 2% and a normal load of 10,000 psf. [Spec. 02930-Table 3]

l. The minimum interface friction angle for the geocomposite/geomembrane shall be 21 degrees. The minimum interface friction angle for the cover soil/geocomposite shall be 21 degrees. [Spec. 02930-Table 3]

12. **Leachate collection and removal system.**

a. HDPE pipe or fittings shall not be dropped during loading, unloading or placement.

b. Under no circumstances shall pipe be laid in water, and no pipe shall be laid when trench or weather conditions are unsuitable for such work.

c. Visible wires in the processed waste tires shall be limited in size in order to prevent adverse impacts to the bottom liner system. [Spec. 02220-2.06.A.]

13. **Soil Materials.**

a. The subgrade shall be compacted to a minimum of 95% Standard Proctor density. [Spec. Table 02220-3] The subgrade surface shall be free of rocks, debris, and sharp objects larger than 1-inch in any dimension, organic materials and other deleterious materials. [Spec. 02200-2.02.A.] Rocks (greater than ¼ inch in any dimension), sticks (greater than ¼ inch in diameter), roots, debris or any other deleterious materials shall not be used within 6 inches of the surface upon which the subbase will be installed. [Spec. 02221-3.01.B.]

b. The protective cover soil/sand shall have a minimum permeability of 1×10^{-3} cm/sec and shall be compacted to a minimum 95% of standard proctor for the laboratory tests. [Spec. 02220-2.05.A.]

c. Soil materials (including river rock) which contact geosynthetics (above or below) shall not contain any sharp or angular objects exceeding ¼ inch in diameter.

d. The compacted subbase shall have a maximum hydraulic conductivity of 1×10^{-5} cm/sec. The subbase shall be free from roots, rubbish or debris, rocks (greater than ¼ inch in any dimension), sticks (greater than ¼ inch in diameter), calcareous deposits or any other deleterious material. [Spec.02221-2.01.B.]

SPECIFIC CONDITIONS:

14. **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. A qualified field technician representing the owner shall provide full time, on-site inspection during construction. The field technician shall work under the supervision of a professional engineer registered in the State of Florida with experience in landfill liner construction.

15. **Certification of Construction Completeness. Within sixty (60) days** after construction has been completed and prior to the acceptance of waste, 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 and quality assurance to the Department for approval, and shall arrange for Department 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).

c. The owner or operator shall submit a narrative indicating all changes in plans, the cause of the deviations, and certification of the Record Drawings/Documents by the Engineer to the Department.

d. The Groundwater Monitoring System requirements listed in Specific Condition #18 shall be complete.

e. The professional engineer in charge of construction quality assurance shall submit to the Department a final report to verify conformance with the plans and specifications in accordance with Rules 62-701.400(7) and (8), F.A.C.

16. **Record Drawings/Documents.**

a. The Record Documents shall include as-built surveys which demonstrate that the lowest elevation of the cell floor has been constructed **no lower than +131.5 feet NGVD** (southwest portion), or as otherwise approved by the Department.

b. The Record Drawings/Documents shall include, but not be limited to, the following information:

1) All anchor trenches,

2) As-built elevations for the leachate collection pipes (including elevations in the trenches and inverts) and ditch elevations;

3) Daily construction reports ;

4) As-built drawings showing the geomembrane panel installation layout, locations of fabricated and field seams, type of seams, destructive sampling locations, locations of all repairs, panel designations;

5) All geomembrane destructive test results;

SPECIFIC CONDITIONS:

(Specific Condition #16.b., cont'd)

6) Documentation that demonstrates that all leachate collection system piping has been video inspected and/or pressure cleaned. [Spec. 15080-1.02.G.] This documentation shall also detail all deficiencies discovered and corrective actions taken;

7) results of interface friction angle testing [Spec. 02930-Table 3];

8) final report from leak detection company regarding integrity of primary liner [Spec. 02776-1.01.E.].

17. **Facility Operation Requirements.**

a. Operation of this facility is not authorized by this permit.

b. In no event shall waste be accepted at the facility until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

1) Certification of Construction Completion requirements of Specific Conditions #15 and #16,

2) a separate operation permit or substantial modification to permit 35435-007-SO,

3) financial assurance requirements of Specific Condition #24, and

4) construction of the sedimentation basins.

18. **Piezometer Abandonment.** Existing piezometers P-3S and P-3D shall be abandoned **prior to the initiation of construction activities at Section 8.** The locations of these piezometers are shown on Figure M-1 prepared by SCS Engineers, received February 9, 2004 **(attached)**. These locations shall be plugged and abandoned in accordance with Rule 62-532.440, F.A.C., and the rules of the Southwest Florida Water Management District. The written documentation of piezometer abandonment shall be included in the Certification of Construction Completion described in Specific Conditions #15 and #16.

19. **Water Quality, Leachate and Gas Monitoring.** The documents listed in Specific Condition #2 do not include procedures for water quality, gas or leachate monitoring. However, since this permit authorizes construction only, water quality, leachate and gas monitoring are not required for Section 8 as part of this permit. This information shall be included in the modification or operation permit application required by Specific Condition #3.b., above.

20. **Report Submittals.** Unless otherwise specified, all reports for compliance with this permit shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.

21. **Stormwater Management.** The site shall have a surface water management system operated and maintained to prevent surface water flow on to waste filled areas, and a stormwater runoff control system operated and maintained to collect and control stormwater to meet the requirements of Florida Administrative Code Rule 62-330, any other applicable Department rules, and the requirements of the respective water management district.

SPECIFIC CONDITIONS:

22. **Closing and Long-Term Care Requirements.** The documents listed in Specific Condition #2 do not include procedures for closing and long-term monitoring and maintenance. This information shall be submitted as part of the permit or modification required by Specific Condition #3.b.

23. **Financial Assurance.** The owner or operator shall provide adequate financial assurance for the Class I Landfill in accordance with Rule 62-701.630, F.A.C. This information shall be submitted as part of the permit or modification required by Specific Condition #3.b.

24. **Control of Nuisance Conditions.** The operating authority shall be responsible for the control of odors and fugitive particulates (dust) arising from this construction. 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 disease vectors so as to protect the public health and welfare.

25. **Facility Maintenance and Repair.**

a. The site shall be properly maintained including maintenance of equipment, stormwater systems, cover systems, liner and leachate collection and removal systems, groundwater monitoring system, and the prevention of erosion and ponded water in disposal areas.

b. In the event of damage to any portion of the landfill site facilities, failure of any portion of the landfill systems, fire, explosion, or the development of sinkhole(s) at the site, the permittee shall **immediately (within 24 hours)** notify the Department explaining such occurrence and remedial measures to be taken and time needed for repairs. Written, detailed notification shall be submitted to the Department **within seven (7) days** following the occurrence.

c. In the event that any portion of the groundwater monitoring system is damaged, a plan for corrective action shall be submitted in accordance with Specific Condition #25.b. Corrective actions which include relocation or installation of new groundwater monitoring wells shall be in accordance with Specific Condition #26, or as otherwise approved by the Department.

d. In the event that the stormwater system is damaged or is not operating effectively, corrective actions shall be implemented **within thirty (30) days** of the written notification specified in Specific Condition #25.b., unless otherwise approved by the Department.

26. **Ground Water Monitor Well Construction.** The following information shall be submitted for <u>all</u> new or replacement wells:

a. **<u>Prior to</u>** construction of all new or replacement wells the permittee shall request and receive Department approval of a minor permit modification.

b. **Within 90 days of installation (or within 90 days of discovery)** construction details (record drawings) for <u>all</u> new or replacement monitor wells, piezometers and supply wells shall be provided to the Department's Southwest District Office on Department Form No. 62-522.900(3), Monitor Well Completion Form (attached).

c. **Within one week of well completion and development**, each new monitor well shall be sampled for the parameters listed in Rules 62-701.510(8)(a) and 62-701.510(8)(d), F.A.C.

SPECIFIC CONDITIONS:

(Specific Condition #26, cont'd)

d. **Within 90 days of well installation (or within 90 days of discovery)** surveyed drawing(s) shall be submitted in accordance with Rule 62-701.510(3)(d)(1), F.A.C., showing the location of all monitor wells, piezometers and supply wells (active and abandoned), horizontally located in degrees, minutes and seconds of latitude and longitude, and showing the elevation of the top of the well casing to the nearest 0.01 foot, National Geodetic Vertical Datum. The surveyed drawing shall include the well or piezometer identification numbers, and the locations and elevations of all permanent benchmarks and/or corner monument markers at the site. The survey shall be conducted by a Florida Registered Surveyor.

27. **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.

28. **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.

29. **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, including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.

30. **Regulations.** Chapter 62-701, F.A.C., effective May 27, 2001, 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.

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Deborah A. Getzoff
District Director
Southwest District

ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
4	180 days prior to permit renewal	Submit permit renewal application
5.a.	Within 72 hours of discovery Within 7 days of verbal notification	Notification of limestone occurrence Written notification
5.b., 27.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of: sinkholes, hazardous waste receipt, failure of landfill systems or equipment Written notification
6.a.	30 days prior to initiation of construction	Submit: complete plans, specs., CQAP, calculations, revised or new drawings,
6.b.	7 days prior to construction	Submit org. chart, dewatering plan
7.	1 week prior Within 2 weeks of meeting	Notification of pre-construction meeting Submit minutes of meeting
8.a.	15 days after preconstruction meeting	Submit construction schedule
8.b.	Monthly, by the 15th each month	Submit construction progress reports
15., 16,	Within 60 days of completion of construction and prior to operation	Submit: Certification of Construction Completion, narrative describing deviations from plans, record drawings/documents, as-built surveys, interface friction testing results, leak detection report, LCS videotape/cleaning report, piezometer abandonment documentation
18	Prior to initiation of construction	Abandon P-3S and P-3D.
20.b.	Within 90 days of well installation	Submit monitor well completion report
20.c.	Within 1 week of well completion and development	Sample well
20.d.	Within 90 days of well installation	Submit survey showing location of well
27.d.	Within 30 days of written notification	Implement corrective actions for stormwater management system

BEST AVAILABLE COPY

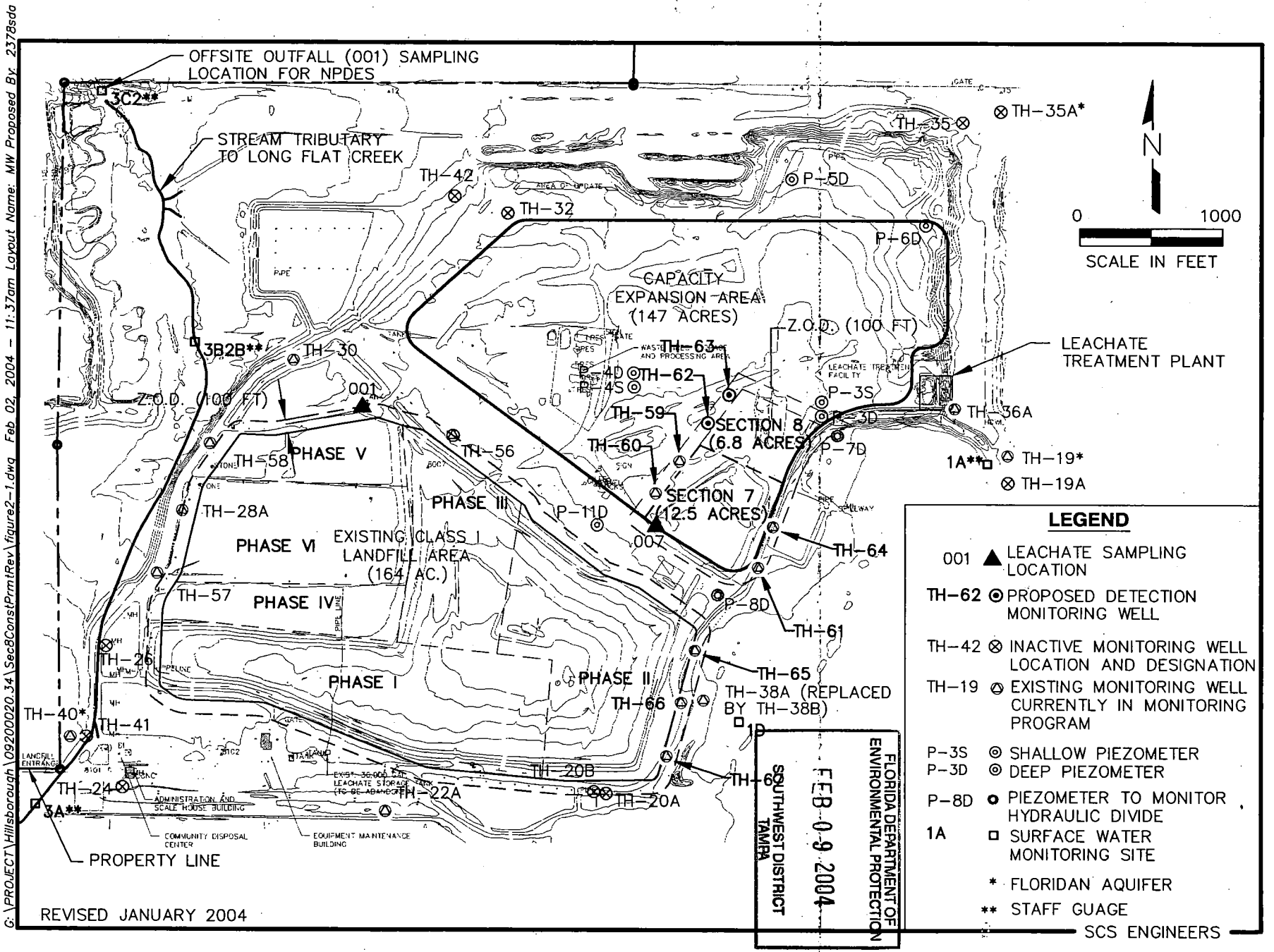


Figure M-1. Location of Monitoring Wells, Piezometers, and Surface Water Sampling Points Southeast County Facility, Hillsborough County, Florida

DEP Form # 62-522.900(3)

Form Title MONITOR WELL COMPLETION REPORT

Effective Date _____

DEP Application No. _____
(Filled in by DEP)

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

MONITOR WELL COMPLETION REPORT

DATE: _____

INSTALLATION NAME: _____

DEP PERMIT NUMBER: _____ GMS NUMBER: _____

WELL NUMBER: _____ WELL NAME: _____

DESIGNATION: Background _____ Immediate _____ Compliance _____

LATITUDE/LONGITUDE: _____

AQUIFER MONITORED: _____

INSTALLATION METHOD: _____

INSTALLED BY: _____

TOTAL DEPTH: _____ DEPTH OF SCREEN: _____ (bls)
(bls)

SCREEN LENGTH: _____ SCREEN SLOT SIZE: _____ SCREEN TYPE: _____

CASING DIAMETER: _____ CASING TYPE: _____

LENGTH OF CASING: _____ FILTER PACK MATERIAL: _____

TOP OF CASING ELEVATION (MSL): _____

GROUND SURFACE ELEVATION (MSL): _____

COMPLETION DATE: _____

DESCRIBE WELL DEVELOPMENT: _____

_____

_____

POST DEVELOPMENT WATER LEVER ELEVATION (MSL): _____

DATE AND TIME MEASURED: _____

REMARKS: (soils information, stratigraphy, etc.) : _____

_____

_____

REPORT PREPARED BY: _____
(name, company, phone number)

NOTE: PLEASE ATTACH BORING LOG.

(bls)= Below Land Surface

DEP Form # 62-522.900(2)

Form Title Ground Water Monitoring Report

Effective Date _____

DEP Application No. _____

Florida Department of Environmental Protection

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

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
( ) Intermediate
( ) Compliance
( ) Other

Ground Water Elevation (NGVD): _____

or (MSL):_____

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

* Attach Laboratory Reports

RECEIVED
AUG 18 2004
Department of Environmental Protection
BY SOUTHWEST DISTRICT

BOARD OF COUNTY COMMISSIONERS
Kathy Castor
Pat Frank
Ken Hagan
Jim Norman
Jan K. Platt
Thomas Scott
Ronda Storms

Hillsborough County
Florida

Office of the County Administrator
Patricia G. Bean

Deputy County Administrator
Wally Hill

Assistant County Administrators
Bernardo Garcia
Carl S. Harness
Manus J. O'Donnell

August 16, 2004

Ms. Susan Pelz
Florida Department of Environmental Protection
Southwest District Office
Solid Waste Section
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Southeast County Landfill Section 8 Construction Permit - Legal Advertisement Proof of Publication

Dear Ms. Pelz:

In accordance with Rule 62-701.320 (8) (a) and (b), 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) Public Notice of Permit issuance for construction of Section 8 of the Southeast County Landfill capacity expansion.

The proof of publication was provided to the SWMD by the Tampa Tribune on August 16, 2004 and the ad ran on August 11, 2004.

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: Daryl H. Smith, SWMD
Larry Ruiz, SWMD
Raymond Dever, SCS
Paul Schipfer, EPC

RECEIVED
AUG 18 2004
Department of Environmental Protection
SOUTHWEST DISTRICT
BY

THE TAMPA TRIBUNE

Published Daily
Tampa, Hillsborough County, Florida

State of Florida }
County of Hillsborough } ss.

Before the undersigned authority personally appeared C. Pugh, who on oath says that she is the Advertising Billing Supervisor 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

AUGUST 11, 2004

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.

C Pugh

Sworn to and subscribed by me, this 12 day of AUGUST, A.D. 20 04

Personally Known ✓ or Produced Identification ____
Type of Identification Produced ____

Susie Lee Slaton

NOTARY PUBLIC STATE OF FLORIDA
OFFICIAL NOTARY SEAL
SUSIE LEE SLATON
COMMISSION NUMBER
DD000060
MY COMMISSION EXP.
APRIL 16, 2005

State of Florida
Department of
Environmental Protection
Notice of Proposed Agency Action on Permit Application

The Department gives notice of its intent to issue a permit to Hillsborough County Solid Waste Management Department, Mr. Daryl Smith, Director, who applied on February 9, 2004, to the Department of Environmental Protection to construct a lateral expansion (Section 8) of an existing Class I Landfill located on County Road 672, 8.8 miles east of US Highway 301 North, Hillsborough County, Florida. **This permit application includes construction only of Section 8 at the existing Hillsborough County Southeast Class I Landfill.**

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below, and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Blvd., MS#35, Tallahassee, Florida 32399-3000, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The petition shall contain the following information:

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of Department's action, or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above. Mediation is not available in this proceeding.

Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rules 62-110.106, 28-106.201, and 28-106.301 F.A.C.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.

6967 8/11/04

Environmental Consultants
3012 U.S. Highway 301 North
Suite 700
Tampa, FL 33619
813-621-0080
FAX 813-623-6757

SCS ENGINEERS

TO FDEP
3804 Coconut Palm Drive
Tampa, Florida 33619

DATE July 28, 2004
JOB NO. 09200020.34
ATTENTION Susan J. Pelz
Re: Hillsborough County – SCLF
Capacity Expansion, Section 8

WE ARE SENDING YOU

■ Attached ☐ Under separate cover via _____

☐ Shop drawings ☐ Prints

☐ Copy of letter ☐ Change Order

☐ The following items: ☐ Plans ☐ Samples

■ Specifications ☐ Other

RECEIVED
JUL 29 2004
Department of Environmental Protection
BY SOUTHWEST DISTRICT

COPIES	DATE	DESCRIPTION
1	6-18-04	Construction Specifications SCLF Section 8 with signed and sealed cover

THESE ARE TRANSMITTED as check below:

☐ For approval
☐ For your use
X As requested
☐ For signature
FOR BIDS
☐ DUE

☐ Approved as submitted
☐ Approved as noted
☐ Returned for corrections
☐ Other

☐ Resubmit Copies for approval
☐ Submit Copies distribution
☐ Return Corrected prints

REMARKS Susan, these specifications contain a revised Table 02221-1.

COPY TO File

SIGNED Sheila Carpenter-van Dijk

If enclosures are not as noted, kindly notify us at once.

CONSTRUCTION SPECIFICATIONS
SOUTHEAST COUNTY LANDFILL
CAPACITY EXPANSION
SECTION 8

Prepared for:

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

D.E.P.
JUL 2 9 2004
Southwest District Tampa

Prepared by:

SCS Engineers
3012 U.S. Highway 301 North, Suite 700
Tampa, Florida 33619-2242
(813) 621-0080
Fax: (813) 623-6757

File No. 09200020.34
June 18, 2004

Raymond J Lever
June 18, 2004

(See Bound Report)

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D.E.P.
JUL 29 2004
Southwest District Tampa

The SWANA document "A Compilation of Landfill Gas Field Practices and Procedures Health and Safety Section" is included by reference.

construction permit

Pelz, Susan

From: PATRICIA BERRY [BerryP@hillsboroughcounty.org]
Sent: Thursday, July 29, 2004 9:58 AM
To: Pelz, Susan; lruiz@scsengineers.com
Subject: Re: Hillsborough SCLF, Section 8

Susan, the Solid Waste Management Dept. has completed its review of the revisions to Section 8 construction permit and has no further comments. I will proceed with placement of the notice in the paper, etc. Thanks for your timely response. Patty

>>> "Pelz, Susan" <Susan.Pelz@dep.state.fl.us> 07/28/04 03:47PM >>>
Patty,

Please find attached the strikethrough/underline version of the draft permit. The changes are as discussed with Larry today. Please disregard the pagination and spacing as that will be corrected when I "accept" the changes. Please let me know if you have any further comments. Some references in Spec Section 02276 may change due to numbering changes that SCS will be providing to me.

Thanks,
Susan J. Pelz, P.E.
Solid Waste Program Manager
Southwest District
813-744-6100 x 386
susan.pelz@dep.state.fl.us

<<35435-9.SC.DOC>>

SPECIFIC CONDITIONS:

1. **Facility Designation.** This site shall be classified as a solid waste Class I landfill, and shall be constructed in accordance with all applicable requirements of Chapters 62-4, 62-302, 62-330, 62-520, 62-522 and 62-701, Florida Administrative Code.

2. **Permit Application Documentation.** This permit is valid for construction only of Section 8 of the Hillsborough County Southeast Class I Landfill in accordance with the reports, plans and information submitted by SCS Engineers, Inc. (unless otherwise noted), as follows:

a. Construction Permit Application, Southeast County landfill Capacity Expansion - Section 8, Hillsborough County,… (one 3-ring bound document) dated February 4, 2004 (received February 9, 2004) and supporting information including revised information dated April 23, 2004 (received April 23, 2004) (pages inserted into original). This information includes, but is not limited to:

And July 29, 2004

1) *Attachment H-1,* Technical Specifications [Spec.],
2) *Exhibit A of Attachment H-1,* Construction Quality Assurance Plan [CQAP], and
3) *Attachment H-2,* Design Calculations for Bottom Liner Components;

b. Plan Sheets titled, Southeast County Landfill Section 8 Capacity Expansion,… (9 sheets) received February 9, 2004 including revised sheets received April 23, 2004 (sheets 3, 7, 8 and 9 of 9);

c. The following information from the March 2000 Construction Permit Application Section 1 Class I Capacity Expansion, Southeast County Landfill,… (Volume 1 of 3 unless otherwise noted) including revised information inserted into original received May 17, 2000, and July 13, 2000 as follows. [Note: Section 1 was subsequently renumbered Section 7.] Portions of these documents not specifically referenced in this Specific Condition are not valid for this permit:

1) *Attachment G-3,* Leachate Generation Analysis,
2) *Attachment G-4,* Design Calculations for Bottom Liner Components,
3) *Section H,* Hydrogeological Investigation Requirements,
4) *Section I,* Geotechnical Investigation Requirements;
5) *Hydrogeological/Geotechnical Investigation,* prepared by Barnes, Ferland and Associates, Inc., dated September 1997, (received as Volume 2 of 3 of the March 2000 construction application);

and in accordance with all applicable requirements of Department rules.

3. **Permit Modifications.**

a. Any construction or operation 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. Any significant changes to the construction or operation at the facility shall require a permit modification. Permits shall be modified in accordance with the requirements of Rule 62-4.080, F.A.C. A modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review by the Department is considered a substantial modification.

Changes discussed w/ Larry Ruiz 7/28/04 2:15 pm

SPECIFIC CONDITIONS:

(Specific Condition #3, cont'd)

b. This permit authorizes **construction** of Section 8 disposal area only. This permit **does not authorize** the operation of Section 8. Operation of Section 8 shall require a new permit or substantial modification of Operation Permit 35435-007-SO. The operation permit application shall include, but not be limited to:

1) pipe strength (crushing, buckling, ring deflection) calculations for the pipe used for Section 8 LCS (i.e., 8-inch diameter SDR 17 HDPE pipe);

2) revised slope stability and settlement calculations based on the as-built and proposed operation configurations of Section 8. The settlement calculations shall demonstrate that the LCS piping will continue to function adequately after the expected maximum settlement in Section 8;

3) a closing and long-term care plan, including description of the final cover and gas collection system;

4) revised financial assurance cost estimates;

5) plan sheets showing the method and sequence of filling, including proposed schedule for construction, operation and closing;

6) revised LDS flow capacity calculations that include leakage action rates used in the March 2000 construction submittal [ref. SC#2.c(2)];

c. Leachate recirculation or irrigation is not authorized in Section 8 [ref. SC#2.a, Section H.4.].

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.

5. **Prohibitions.** The prohibitions of Rule 62-701.300, F.A.C., shall not be violated by the activities at this site.

a. In the event that limestone is encountered during excavation or construction activities, the excavation/construction activities shall cease and the Department shall be notified **within 72 hours of discovery**. Written notification shall be submitted **within 7 days of discovery**. The written notification shall include the location, elevation, and extent of limestone noted on a plan sheet, a description of the materials encountered, and a plan of action which ensures that groundwater will not be adversely affected by the continued construction and operation of the facility. Excavation or construction activities shall not resume in the affected area until the Department-approved plan of action has been completed.

SPECIFIC CONDITIONS:

(Specific Condition #5, cont'd)

b. In the event that surface depressions which may be indicative of sinkhole activity, or subsurface instability, are discovered onsite, or within 500 feet of the site, the Department shall be notified **within 24 hours of discovery.** Written notification shall be submitted **within 7 days of discovery.** The written notification shall include a description of the depression, the location and size of the depression shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. The permittee shall ensure that no construction activity (e.g., dewatering activities) results in violation of Department rules or standards. The permittee shall ensure that flooding in the downstream area does not occur and sedimentation and turbidity are in compliance with Department standards. [Spec. 02140-3.02.B.]

6. **Pre-Construction Submittals.**

a. At least thirty (30) days prior to initiation of any construction activity, unless otherwise specified, the permittee shall submit the following information to the Department:

~~a.~~ 1) A complete set of Plans, Specifications and CQA Plan to be used for construction which includes all changes (i.e., all additions, deletions, revisions to the plans previously approved by the Department). Significant changes in the plans, as determined by the Department, shall require a permit modification. All changes in the plans shall be noted on the plans and accompanied by a narrative indicating the change, the cause of the deviation, and a re-certification of the alternate design by the design engineer. These alternate designs shall be approved by the Department prior to construction. **If no changes have been made** to the construction plans, Specifications or CQA Plan, the permittee shall notify the Department in writing that no changes have been made, and re-submittal of these documents will not be required prior to construction.

~~b.~~2) New or revised plan sheets which include:
~~1)~~ a NW-SE cross-section and a NE-SW cross-section (along the leachate collection trench) across the entire footprint of Section 8. The location of the cross-sections should also be shown on Sheet 5 of 9.

~~2) the location of the 4th temporary cleanout [ref. SC#2.b., Sheet 5 of 9];~~

b.~~c.~~ No later than seven (7) days prior to initiation of any construction activity, unless otherwise specified, the permittee shall submit the following information to the Department:

1) An organizational chart including the role and name of the specific company/organization for each of the parties in the Project team; and

~~d.~~2) The dewatering plan required by Specification Section 02140-1.03.A.

7. **Pre-Construction Meeting Notification.** Department Solid Waste Permitting staff shall be notified **at least one (1) week prior** to ~~all~~ the pre-construction meeting~~s.~~ to allow Department staff attendance at the meeting. Prior to initiating construction activities, the permittee shall make

arrangements for the Engineer of Record to meet on site and discuss all plan changes with Department Solid Waste Permitting Staff of the Southwest District Office. A copy of the minutes from the pre-construction conference shall be submitted to the Department **within two (2) weeks** of the conference.

SPECIFIC CONDITIONS:

8. **Construction Schedule and Progress Report.**
a. **No later than fifteen (15) days~~one (1) week~~ after** the pre-construction conference, the owner or operator shall submit a construction schedule which includes estimated dates for each portion of the construction to the Department. The Engineer of Record or another qualified professional engineer shall make periodic inspections during construction to ensure that design integrity is maintained.

b. An updated construction schedule and progress report shall be submitted to the Department **monthly, by the 15th each month.** The monthly progress report should be submitted in an appropriately labeled three-ring binder of sufficient size to store the monthly progress reports for the entire project. The monthly progress reports shall include, but not be limited to:

1) A narrative explaining the status (and any delays) of major stages of the construction (i.e., liner, GCL, tanks, piping, liner penetrations, etc.),

2) A summary of submittals and change order requests,

3) Weekly progress meeting minutes [Spec. 01311-1.02; CQAP 4.2], and

4) Color copies of photographs which are representative of the typical construction activities for the reporting period, and photographs which show overall views and details of major stages of construction (e.g., liner penetrations, lift station construction, tanks construction, etc.).

9. **Construction Tolerances.**
a. Pipe invert elevations for the leachate collection system piping shall be noted every 50 linear feet along the pipe and at each change in direction and elevation [Spec. 01050-1.04.C.5.] to demonstrate that the leachate collection system has been constructed to the slopes and grades shown on the drawings. This information shall be included with the Record Documents.

b. As-built topographic surveys shall demonstrate that each liner component, subgrade, subbase, top of sand drainage layer, leachate collection system, piping, etc., was constructed within the tolerance (±0.2 feet vertical and ±0.5 feet horizontal) required by the Drawings and Specifications. [Spec. 01050-3.03.A.]

10. **Construction Quality Assurance.**
a. Liner systems shall have a construction quality assurance plan to provide personnel with adequate information to achieve continuous compliance with the construction requirements. The Construction Quality Assurance Plan shall be in accordance with Rules 62-701.400(7) and (8), F.A.C., the CQA Plan [ref. SC#2.a(2)], and the conditions of this permit. The professional engineer or his designee shall be on-site at all times during construction (including liner system and leachate collection system) to monitor construction activities.

b. A complete set of construction drawings and shop drawings, which include daily additions, deletions and revisions, shall be maintained on-site at all times for reference. [Spec. 01300-1.07.B.] Drawings which show the locations of geomembrane panel seams and repairs shall be kept on-site at all times for reference.

SPECIFIC CONDITIONS:

(Specific Condition #10, cont'd)

c. Leachate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to the land, surface water or groundwater outside the liner system at any time during the construction activities.

d. Unsatisfactory, defective or non-conforming work shall be reported to the Engineer and shall be corrected, or the reasons for not correcting the work shall be recorded and maintained onsite for reference and inspections. Documentation of the corrections or reasons for not correcting the work shall be submitted with the Record Documents required by Specific Condition #16.

e. Construction activities such as geomembrane seaming, QA/QC testing of the geosynthetics or soil materials, surveying, etc. shall not be carried out in non-daylight hours without prior Department approval. [see Spec. 02776-1.04.K, 3.03.J] If these activities will be conducted during nighttime hours, the Department shall be notified **at least ~~1 week~~ 72 hours in advance** to allow for Department observation. This notification shall include a description of the methods which will be used to provide adequate illumination to ensure that the quality of the construction is not compromised.

f. The soil subbase material shall be tested for % fines (ASTM D-1140) in accordance with Rule 62-701.400(8)(d), F.A.C. [see Spec. 02221-3.02.F.1.] The compacted soil subbase shall be tested at the frequencies listed in Table 02221-1 except that four thickness measurements shall be taken per acre per lift, and all testing frequencies on the soil subbase shall be doubled for the first five acres of construction. [Rule 62-701.400(8)(e), F.A.C.]

g. All excavations shall be maintained free from standing water. Except for the stormwater management system construction, no construction, including pipe laying, shall be allowed in water. Groundwater shall be maintained at least 2 feet below excavations. [Spec. 02140-3.01.B.] In the event that it appears that the excavation is being impacted by groundwater, the contractor shall take the corrective actions necessary to demonstrate that the groundwater is sufficiently below the bottom of the excavation.

h. Sandbags or other temporary anchoring devices shall be removed prior to subsequent placement of materials over the geosynthetics.

i. Where sod is used over lined areas, pegging of sod shall not damage the liner.

11. **Geosynthetic Materials.**

a. Smooth geomembranes [Spec. 02776-1.01.B.] or geosynthetic clay liners [see CQAP 6.4] are not authorized for use in the Section 8 construction project.

b. Seaming.

1) Seaming processes other than fusion or extrusion welding shall be approved by the Engineer and submitted to the Department prior to implementation.

2) Seaming apparatus or personnel which have failed trial welds shall not be used for seaming until passing welds are achieved.

SPECIFIC CONDITIONS:

(Specific Condition #11.b. cont'd)

3) Geomembrane seaming activities shall only be conducted during daylight hours and within the weather requirements of the Specifications, unless otherwise specifically approved by the Department. Seaming shall only take place with the "master seamer" present. [Spec. 02776-1.04.K, 3.03.J] No geomembrane seaming shall be performed unless the CQA Consultant is on-site.

4) The procedure used to temporarily bond adjacent geomembrane panels together shall not damage the geomembrane.

c. Conformance testing for the geosynthetic materials shall be in accordance with the CQAP Sections 6.1.2.2 (geomembrane), 6.2.2 (geotextiles), 6.3.3 (geocomposites) and the Specifications. The geosynthetics shall meet the requirements listed in Specification Tables 02776-2 (geomembrane), 02930-1 (geonet), 02930-2 (geotextile), and 02930-3 (geocomposite), or this permit, whichever is more stringent. Conformance testing of the geomembrane shall include stress crack resistance and oxidative induction time. In all cases, the test results shall meet or exceed the property values in the Specifications.

d. The construction methods used shall minimize wrinkles. Excessive wrinkles shall be removed, and the areas repaired. Areas where wrinkles are removed shall be repaired and re-tested in accordance with the Specifications and CQA Plan. [Spec 02776-3.03.K.]

e. The liner system shall not be damaged by excessive traffic.

f. Destructive testing.

1) Destructive tests of the geomembrane seams shall be taken at random locations, at a minimum frequency of one test location per 500 feet of seam. [Spec. 02776-3.04.B.1.] This frequency shall not be based on an average throughout the entire facility.

2) Destructive tests conducted on the geomembrane field seams shall demonstrate that the actual shear strength is at least 90 percent of the yield strength of the geomembrane, and failure is outside of the seam area. All of the samples shall meet the requirements for each test method (peel and shear) listed in Geomembrane Specifications, Table 02776-3. The strength results shall not be averaged and both sides of fusion welds shall be tested. [CQAP 6.1.9.4]

3) Work shall not proceed with any materials which will cover locations which have been destructively tested or repaired until laboratory test results which demonstrate passing values are provided to the onsite CQA manager/inspector.

g. Prior to placement of materials on the subbase, an as-built topographic survey shall be provided to the Engineer to verify conformance with the Drawings and Specifications. Each subbase shall be

accepted by the Liner Installer and Engineer in writing before placement of the next layer. [Spec. 02776-1.04.J; CQAP 6.1.3]

h. During the construction of, and until the geomembrane is placed on the subbase, the subbase shall be inspected daily for signs of desiccation, excessive moisture, or other damage. [Spec. 02221-3.03.J.] In the event that the condition of the subbase deteriorates, corrective actions shall be implemented immediately. Washouts or erosion of the geomembrane subbase shall repaired immediately.

SPECIFIC CONDITIONS:

(Specific Condition #11, cont'd)

i. No geomembrane shall be placed in an area that has become softened by precipitation or desiccated and cracked due to lack of moisture. [Spec. 02221-3.03.J.] No standing water or excessive moisture shall be allowed on the area to be lined before the geomembrane installation.

j. The geocomposite drainage material (CDN) and geotextile shall be handled (stored, placed, etc.) in a manner which prevents the infiltration of dirt and protects the CDN and geotextile from abrasion, punctures and excessive moisture.

k. The transmissivity of the geocomposite drainage material shall be a minimum of 3.7×10^{-3} m^2/sec based upon a gradient of 2% and a normal load of 10,000 psf. [Spec. 02930-Table 3]

l. The minimum interface friction angle for the geocomposite/geomembrane shall be 21 degrees. The minimum interface friction angle for the cover soil/geocomposite shall be 21 degrees. [Spec. 02930-Table 3]

12. **Leachate collection and removal system.**

a. HDPE pipe or fittings shall not be dropped during loading, unloading or placement.

b. Under no circumstances shall pipe be laid in water, and no pipe shall be laid when trench or weather conditions are unsuitable for such work.

c. Visible wires in the processed waste tires shall be limited in size in order to prevent adverse impacts to the bottom liner system. [Spec. 02220-2.06.A.]

13. **Soil Materials.**

a. The subgrade shall be compacted to a minimum of 95% Standard Proctor density. [Spec. Table 02220-3] The subgrade surface shall be free of rocks, debris, and sharp objects larger than 1-inch in any dimension, organic materials and other deleterious materials. [Spec. 02200-2.02.A.] Rocks (greater than ¼ inch in any dimension), sticks (greater than ¼ inch in diameter), roots, debris or any other deleterious materials shall not be used within 6 inches of the surface upon which the subbase will be installed. [Spec. 02221-3.01.B.]

b. The protective cover soil/sand shall have a minimum permeability of 1×10^{-3} cm/sec and shall be compacted to a minimum 95% of standard proctor for the laboratory tests. [Spec. 02220-2.05.A.]

c. Soil materials (including river rock) which contact geosynthetics (above or below) shall not contain any sharp or angular objects exceeding ¼ inch in diameter.

d. The compacted subbase shall have a maximum hydraulic conductivity of 1×10^{-5} cm/sec. The subbase shall be free from roots, rubbish or debris, rocks (greater than ¼ inch in any dimension), sticks (greater than ¼ inch in diameter), calcareous deposits or any other deleterious material. [Spec.02221-2.01.B.]

SPECIFIC CONDITIONS:

14. **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. A qualified field technician representing the owner shall provide full time, on-site inspection during construction. The field technician shall work under the supervision of a professional engineer registered in the State of Florida with experience in landfill liner construction.

15. **Certification of Construction Completeness. Within sixty (60) days** after construction has been completed and prior to the acceptance of waste, 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 and quality assurance to the Department for approval, and shall arrange for Department 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).

c. The owner or operator shall submit a narrative indicating all changes in plans, the cause of the deviations, and certification of the Record Drawings/Documents by the Engineer to the Department.

d. The Groundwater Monitoring System requirements listed in Specific Condition #18 shall be complete.

e. The professional engineer in charge of construction quality assurance shall submit to the Department a final report to verify conformance with the plans and specifications in accordance with Rules 62-701.400(7) and (8), F.A.C.

16. **Record Drawings/Documents.**
a. The Record Documents shall include as-built surveys which demonstrate that the lowest elevation of the cell floor has been constructed **no lower than +131.52 feet NGVD** (southwest portion), or as otherwise approved by the Department.

b. The Record Drawings/Documents shall include, but not be limited to, the following information:

1) All anchor trenches,

2) As-built elevations for the leachate collection pipes (including elevations in the trenches and inverts) and ditch elevations;

3) Daily construction reports ~~(CQA and general contractor)~~;

4) As-built drawings showing the geomembrane panel installation layout, locations of fabricated and field seams, type of seams, destructive sampling locations, locations of all repairs, panel designations;

5) All geomembrane destructive test results;

SPECIFIC CONDITIONS:

(Specific Condition #16.b., cont'd)

6) Documentation that demonstrates that all leachate collection system piping has been video inspected and/or pressure cleaned. [Spec. 15080-1.02.G.] This documentation shall also detail all deficiencies discovered and corrective actions taken;

7) results of interface friction angle testing [Spec. 02930-Table 3];

8) final report from leak detection company regarding integrity of primary liner [Spec. 02776-1.01.E.]~~, and~~

~~9) report from jet cleaning/video inspection of LCS piping [Spec. 15080-3.07.A.].~~

17. **Facility Operation Requirements.**

a. Operation of this facility is not authorized by this permit.

b. In no event shall waste be accepted at the facility until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

1) Certification of Construction Completion requirements of Specific Conditions #15 and #16,

2) a separate operation permit or substantial modification to permit 35435-007-SO,

3) financial assurance requirements of Specific Condition #24, and

4) construction of the sedimentation basins ~~stormwater management system~~.

18. **Piezometer Abandonment.** Existing piezometers P-3S and P-3D shall be abandoned **prior to the initiation of construction activities at Section 8.** The locations of these piezometers are shown on Figure M-1 prepared by SCS Engineers, received February 9, 2004 **(attached)**. These locations shall be plugged and abandoned in accordance with Rule 62-532.440, F.A.C., and the rules of the Southwest Florida Water Management District. The written documentation of piezometer abandonment shall be included in the Certification of Construction Completion described in Specific Conditions #15 and #16.

19. **Water Quality, Leachate and Gas Monitoring**. The documents listed in Specific Condition #2 do not include procedures for water quality, gas or leachate monitoring. However, since this permit authorizes construction only, water quality, leachate and gas monitoring are not required for Section 8 as part of this permit. This information shall be included in the modification or operation permit application required by Specific Condition #3.b., above.

~~20. **Ground Water Monitor Well Construction.** The following information shall be submitted for all new or replacement wells:~~

~~a. **Prior to** construction of all new or replacement wells the permittee shall request and receive Department approval of a minor permit modification.~~

~~**SPECIFIC CONDITIONS:**~~

~~(Specific Condition #20, cont'd)~~

~~b. **Within 90 days of installation (or within 90 days of discovery)** construction details (record drawings) for all new or replacement monitor wells, piezometers and supply wells shall be provided to the Department's Southwest District Office on Department Form No. 62-522.900(3), Monitor Well Completion Form (attached).~~

~~c. **Within one week of well completion and development**, each new monitor well shall be sampled for the parameters listed in Rules 62-701.510(8)(a) and 62-701.510(8)(d), F.A.C.~~

~~d. **Within 90 days of well installation (or within 90 days of discovery)** surveyed drawing(s) shall be submitted in accordance with Rule 62-701.510(3)(d)(1), F.A.C., showing the location of all monitor wells, piezometers and supply wells (active and abandoned), horizontally located in degrees, minutes and seconds of latitude and longitude, and showing the elevation of the top of the well casing to the nearest 0.01 foot, National Geodetic Vertical Datum. The surveyed drawing shall include the well or piezometer identification numbers, and the locations and elevations of all permanent benchmarks and/or corner monument markers at the site. The survey shall be conducted by a Florida Registered Surveyor.~~

2~~1~~0. **Report Submittals.** Unless otherwise specified, all reports for compliance with this permit shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.

2~~2~~1. **Stormwater Management.** The site shall have a surface water management system operated and maintained to prevent surface water flow on to waste filled areas, and a stormwater runoff control system operated and maintained to collect and control stormwater to meet the requirements of Florida Administrative Code Rule 62-330, any other applicable Department rules, and the requirements of the respective water management district.

2~~3~~2. **Closing and Long-Term Care Requirements.** The documents listed in Specific Condition #2 do not include procedures for closing and long-term monitoring and maintenance. This information shall be submitted as part of the permit or modification required by Specific Condition #3.b.

2~~4~~3. **Financial Assurance.** The owner or operator shall provide adequate financial assurance for the Class I Landfill in accordance with Rule 62-701.630, F.A.C. This information shall be submitted as part of the permit or modification required by Specific Condition #3.b.

~~a. Proof of the initial funding of the financial assurance mechanism shall be submitted no later than 60 days prior to receipt of waste in the expansion area.~~

~~b. All costs for closure shall be adjusted and submitted **annually, by September 1st each year** to: Solid Waste Program Manager, Solid Waste Section, Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.~~

~~c. Proof that the financial mechanism has been adequately funded shall be submitted **annually** to: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, MS #4565, Tallahassee, Florida 32399-2400.~~

SPECIFIC CONDITIONS:

~~25. **Monitoring of Waste.** The permittee shall not accept hazardous waste or any hazardous substance at this site. Hazardous waste is a waste 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. In the event that hazardous wastes are discovered, the Department shall be notified in accordance with Specific Condition #44.b., below. These wastes shall be disposed in accordance with applicable Department rules.~~

2~~6~~4. **Control of Nuisance Conditions.**
~~a.~~ The operating authority shall be responsible for the control of odors and fugitive particulates (dust) arising from this construction ~~and 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 disease vectors so as to protect the public health and welfare.

~~b. In the event that covering with soil does not adequately control odors, to reduce the potential for the offsite migration of objectionable odors, the owner or operator shall submit an alternate abatement plan to the Department for approval. This plan shall include, at a minimum, a description of the proposed corrective actions and a schedule for implementation.~~

2~~7~~5. **Facility Maintenance and Repair.**
a. The site shall be properly maintained including maintenance of equipment, stormwater systems, cover systems, liner and leachate collection and removal systems, groundwater monitoring system, and the prevention of erosion and ponded water in disposal areas.

b. In the event of damage to any portion of the landfill site facilities, failure of any portion of the landfill systems, fire, explosion, or the development of sinkhole(s) at the site, the permittee shall **immediately (within 24 hours)** notify the Department explaining such occurrence and remedial measures to be taken and time needed for repairs. Written, detailed notification shall be submitted to the Department **within seven (7) days** following the occurrence.

c. In the event that any portion of the groundwater monitoring system is damaged, a plan for corrective action shall be submitted in accordance with Specific Condition #25~~7~~.b. Corrective actions which include relocation or installation of new groundwater monitoring wells

shall be in accordance with Specific Condition #260~~, above~~, or as otherwise approved by the Department.

d. In the event that the stormwater system is damaged or is not operating effectively, corrective actions shall be implemented **within thirty (30) days** of the written notification specified in Specific Condition #25~~7~~.b., unless otherwise approved by the Department.

26. **Ground Water Monitor Well Construction.** The following information shall be submitted for all new or replacement wells:

a. **Prior to** construction of all new or replacement wells the permittee shall request and receive Department approval of a minor permit modification.

b. **Within 90 days of installation (or within 90 days of discovery)** construction details (record drawings) for all new or replacement monitor wells, piezometers and supply wells shall be provided to the Department's Southwest District Office on Department Form No. 62-522.900(3), Monitor Well Completion Form (attached).

c. **Within one week of well completion and development**, each new monitor well shall be sampled for the parameters listed in Rules 62-701.510(8)(a) and 62-701.510(8)(d), F.A.C.

d. **Within 90 days of well installation (or within 90 days of discovery)** surveyed drawing(s) shall be submitted in accordance with Rule 62-701.510(3)(d)(1), F.A.C., showing the location of all monitor wells, piezometers and supply wells (active and abandoned), horizontally located in degrees, minutes and seconds of latitude and longitude, and showing the elevation of the top of the well casing to the nearest 0.01 foot, National Geodetic Vertical Datum. The surveyed drawing shall include the well or piezometer identification numbers, and the locations and elevations of all permanent benchmarks and/or corner monument markers at the site. The survey shall be conducted by a Florida Registered Surveyor.

27~~8~~. **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.

SPECIFIC CONDITIONS:

28~~9~~. **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.

29~~30~~. **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, including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.

30~~1~~. **Regulations.** Chapter 62-701, F.A.C., effective May 27, 2001, 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.

construction permit

Pelz, Susan

From: Pelz, Susan
Sent: Wednesday, July 28, 2004 3:47 PM
To: Patty Berry (E-mail); Larry Ruiz (E-mail)
Subject: Hillsborough SCLF, Section 8

Patty,

Please find attached the strikethrough/underline version of the draft permit. The changes are as discussed with Larry today. Please disregard the pagination and spacing as that will be corrected when I "accept" the changes. Please let me know if you have any further comments. Some references in Spec Section 02276 may change due to numbering changes that SCS will be providing to me.

Thanks,
Susan J. Pelz, P.E.
Solid Waste Program Manager
Southwest District
813-744-6100 x 386
susan.pelz@dep.state.fl.us

35435-9.SC.D
OC

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

PERMIT/CERTIFICATION
WACS ID No: SWD/29/41193
Permit No: **35435-009-SC**
Date of Issue:
Expiration Date: **07/15/2009**
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 Section 8 construction

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-302, 62-330, 62-520, 62-522, 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 construct a expansion to a **Class I Solid Waste Landfill** (approximately 6.8 acres), referred to as **Section 8 of the Southeast County Landfill**, subject to the specific and general conditions attached, for solid waste disposal, located **8.8 miles east of U.S. Highway 301 North on County Road 672,** Hillsborough County, Florida. The general and specific conditions attached are for the construction only of:

1. Class I landfill

General Information - Section 8

Disposal acres	6.8 acres
Lowest Bottom elevation of cell	+131.5~~2~~ NGVD (southwest corner of Section 8) [ref. #2.b., Sheet 4 of 9]
Top elevation at buildout (including cover)	Approx. +285 feet NGVD (Section 8 only) [ref. SC#2.a(3), page 7 of 8]
Liner system (bottom to top)	Subbase soil ($k \leq 1 \times 10^{-5}$ cm/sec), 60 mil textured HDPE, triplanar geocomposite drainage net, 60-mil textured HDPE, triplanar geocomposite, 12-inch protective sand layer, 12-inch tire chip layer [ref. #2.a(1)-Specs: 02776-1.01.B., 02930-1.01.A.; SC#2.b., Detail 1, Sheet 8 of 9]
LCS/drainage layer & LDS	Drainage/protective sand $\geq 1 \times 10^{-3}$ cm/sec; tire chips; woven geotextile wrapped around LCS gravel & pipes; three perforated 8-inch diameter SDR 17.5 HDPE collection laterals, connecting to Section 7 LCS pipes at south end of Section 8; LDS is triplanar composite geonet [ref. SC#2.a(1)-Specs. 02940-1.01.A, 02930-1.01.A.; SC#2.b., Sheet 5 of 9]
Leakage action rate (LDS)	164 gallons/acre/day [ref. SC#2.c(1), sheet 5 of 5]

Replaces Permit No.: N/A, new

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.

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.

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.

GENERAL CONDITIONS:

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

(a) A description of and cause of noncompliance; and

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

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

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

10. The permittee agrees to comply with changes in Department rules and Florida Statues 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

GENERAL CONDITIONS:

14. The permittee shall comply with the following:
(a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

(b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

(c) Records of monitoring information shall include:
1. the date, exact place, and time of sampling or measurements;
2. the person responsible for performing the sampling or measurements;
3. the dates analyses were performed;
4. the person responsible for performing the analyses;
5. the analytical techniques or methods used;
6. the results of such analyses.

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

SPECIFIC CONDITIONS:

1. **Facility Designation.** This site shall be classified as a solid waste Class I landfill, and shall be constructed in accordance with all applicable requirements of Chapters 62-4, 62-302, 62-330, 62-520, 62-522 and 62-701, Florida Administrative Code.

2. **Permit Application Documentation.** This permit is valid for construction only of Section 8 of the Hillsborough County Southeast Class I Landfill in accordance with the reports, plans and information submitted by SCS Engineers, Inc. (unless otherwise noted), as follows:

a. Construction Permit Application, Southeast County landfill Capacity Expansion - Section 8, Hillsborough County,... (one 3-ring bound document) dated February 4, 2004 (received February 9, 2004) and supporting information including revised information dated April 23, 2004 (received April 23, 2004) (pages inserted into original). This information includes, but is not limited to:

1) *Attachment H-1,* Technical Specifications [Spec.],
2) *Exhibit A of Attachment H-1,* Construction Quality Assurance Plan [CQAP], and
3) *Attachment H-2,* Design Calculations for Bottom Liner Components;

b. Plan Sheets titled, Southeast County Landfill Section 8 Capacity Expansion,... (9 sheets) received February 9, 2004 including revised sheets received April 23, 2004 (sheets 3, 7, 8 and 9 of 9);

c. The following information from the March 2000 Construction Permit Application Section 1 Class I Capacity Expansion, Southeast County Landfill,... (Volume 1 of 3 unless otherwise noted) including revised information inserted into original received May 17, 2000, and July 13, 2000 as follows. [Note: Section 1 was subsequently renumbered Section 7.] Portions of these documents not specifically referenced in this Specific Condition are not valid for this permit:

1) *Attachment G-3,* Leachate Generation Analysis,
2) *Attachment G-4,* Design Calculations for Bottom Liner Components,
3) *Section H,* Hydrogeological Investigation Requirements,
4) *Section I,* Geotechnical Investigation Requirements;
5) *Hydrogeological/Geotechnical Investigation,* prepared by Barnes, Ferland and Associates, Inc., dated September 1997, (received as Volume 2 of 3 of the March 2000 construction application);

and in accordance with all applicable requirements of Department rules.

3. **Permit Modifications.**

a. Any construction or operation 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. Any significant changes to the construction or operation at the facility shall require a permit modification. Permits shall be modified in accordance with the requirements of Rule 62-4.080, F.A.C. A modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review by the Department is considered a substantial modification.

SPECIFIC CONDITIONS:

(Specific Condition #3, cont'd)

b. This permit authorizes **construction** of Section 8 disposal area only. This permit **does not authorize** the operation of Section 8. Operation of Section 8 shall require a new permit or substantial modification of Operation Permit 35435-007-SO. The operation permit application shall include, but not be limited to:

1) pipe strength (crushing, buckling, ring deflection) calculations for the pipe used for Section 8 LCS (i.e., 8-inch diameter SDR 17 HDPE pipe);

2) revised slope stability and settlement calculations based on the as-built and proposed operation configurations of Section 8. The settlement calculations shall demonstrate that the LCS piping will continue to function adequately after the expected maximum settlement in Section 8;

3) a closing and long-term care plan, including description of the final cover and gas collection system;

4) revised financial assurance cost estimates;

5) plan sheets showing the method and sequence of filling, including proposed schedule for construction, operation and closing;

6) revised LDS flow capacity calculations that include leakage action rates used in the March 2000 construction submittal [ref. SC#2.c(2)];

c. Leachate recirculation or irrigation is not authorized in Section 8 [ref. SC#2.a, Section H.4.].

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.

5. **Prohibitions.** The prohibitions of Rule 62-701.300, F.A.C., shall not be violated by the activities at this site.

a. In the event that limestone is encountered during excavation or construction activities, the excavation/construction activities shall cease and the Department shall be notified **within 72 hours of discovery.** Written notification shall be submitted **within 7 days of discovery.** The written notification shall include the location, elevation, and extent of limestone noted on a plan sheet, a description of the materials encountered, and a plan of action which ensures that groundwater will not be adversely affected by the continued construction and operation of the facility. Excavation or construction activities shall not resume in the affected area until the Department-approved plan of action has been completed.

SPECIFIC CONDITIONS:

(Specific Condition #5, cont'd)

b. In the event that surface depressions which may be indicative of sinkhole activity, or subsurface instability, are discovered onsite, or within 500 feet of the site, the Department shall be notified **within 24 hours of discovery.** Written notification shall be submitted **within 7 days of discovery.** The written notification shall include a description of the depression, the location and size of the depression shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. The permittee shall ensure that no construction activity (e.g., dewatering activities) results in violation of Department rules or standards. The permittee shall ensure that flooding in the downstream area does not occur and sedimentation and turbidity are in compliance with Department standards. [Spec. 02140-3.02.B.]

6. **Pre-Construction Submittals.**

a. At least thirty (30) days prior to initiation of any construction activity, unless otherwise specified, the permittee shall submit the following information to the Department:

~~a.~~ 1) A complete set of Plans, Specifications and CQA Plan to be used for construction which includes all changes (i.e., all additions, deletions, revisions to the plans previously approved by the Department). Significant changes in the plans, as determined by the Department, shall require a permit modification. All changes in the plans shall be noted on the plans and accompanied by a narrative indicating the change, the cause of the deviation, and a re-certification of the alternate design by the design engineer. These alternate designs shall be approved by the Department prior to construction. **If no changes have been made** to the construction plans, Specifications or CQA Plan, the permittee shall notify the Department in writing that no changes have been made, and re-submittal of these documents will not be required prior to construction.

~~b.~~ 2) New or revised plan sheets which include:
~~1)~~ a NW-SE cross-section and a NE-SW cross-section (along the leachate collection trench) across the entire footprint of Section 8. The location of the cross-sections should also be shown on Sheet 5 of 9.

~~2) the location of the 4th temporary cleanout [ref. SC#2.b., Sheet 5 of 9];~~

b.~~c.~~ No later than seven (7) days prior to initiation of any construction activity, unless otherwise specified, the permittee shall submit the following information to the Department:

1) An organizational chart including the role and name of the specific company/organization for each of the parties in the Project team; and

~~d.~~ 2) The dewatering plan required by Specification Section 02140-1.03.A.

7. **Pre-Construction Meeting Notification.** Department Solid Waste Permitting staff shall be notified **at least one (1) week prior** to ~~all~~ the pre-construction meeting~~s~~. to allow Department staff attendance at the meeting. Prior to initiating construction activities, the permittee shall make

arrangements for the Engineer of Record to meet on site and discuss all plan changes with Department Solid Waste Permitting Staff of the Southwest District Office. A copy of the minutes from the pre-construction conference shall be submitted to the Department **within two (2) weeks** of the conference.

SPECIFIC CONDITIONS:

8. **Construction Schedule and Progress Report.**
a. **No later than fifteen (15) days~~one (1) week~~ after** the pre-construction conference, the owner or operator shall submit a construction schedule which includes estimated dates for each portion of the construction to the Department. The Engineer of Record or another qualified professional engineer shall make periodic inspections during construction to ensure that design integrity is maintained.

b. An updated construction schedule and progress report shall be submitted to the Department **monthly, by the 15th each month.** The monthly progress report should be submitted in an appropriately labeled three-ring binder of sufficient size to store the monthly progress reports for the entire project. The monthly progress reports shall include, but not be limited to:

1) A narrative explaining the status (and any delays) of major stages of the construction (i.e., liner, GCL, tanks, piping, liner penetrations, etc.),

2) A summary of submittals and change order requests,

3) Weekly progress meeting minutes [Spec. 01311-1.02; CQAP 4.2], and

4) Color copies of photographs which are representative of the typical construction activities for the reporting period, and photographs which show overall views and details of major stages of construction (e.g., liner penetrations, lift station construction, tanks construction, etc.).

9. **Construction Tolerances.**
a. Pipe invert elevations for the leachate collection system piping shall be noted every 50 linear feet along the pipe and at each change in direction and elevation [Spec. 01050-1.04.C.5.] to demonstrate that the leachate collection system has been constructed to the slopes and grades shown on the drawings. This information shall be included with the Record Documents.

b. As-built topographic surveys shall demonstrate that each liner component, subgrade, subbase, top of sand drainage layer, leachate collection system, piping, etc., was constructed within the tolerance (±0.2 feet vertical and ±0.5 feet horizontal) required by the Drawings and Specifications. [Spec. 01050-3.03.A.]

10. **Construction Quality Assurance.**
a. Liner systems shall have a construction quality assurance plan to provide personnel with adequate information to achieve continuous compliance with the construction requirements. The Construction Quality Assurance Plan shall be in accordance with Rules 62-701.400(7) and (8), F.A.C., the CQA Plan [ref. SC#2.a(2)], and the conditions of this permit. The professional engineer or his designee shall be on-site at all times during construction (including liner system and leachate collection system) to monitor construction activities.

b. A complete set of construction drawings and shop drawings, which include daily additions, deletions and revisions, shall be maintained on-site at all times for reference. [Spec. 01300-1.07.B.] Drawings which show the locations of geomembrane panel seams and repairs shall be kept on-site at all times for reference.

SPECIFIC CONDITIONS:

(Specific Condition #10, cont'd)

c. Leachate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to the land, surface water or groundwater outside the liner system at any time during the construction activities.

d. Unsatisfactory, defective or non-conforming work shall be reported to the Engineer and shall be corrected, or the reasons for not correcting the work shall be recorded and maintained onsite for reference and inspections. Documentation of the corrections or reasons for not correcting the work shall be submitted with the Record Documents required by Specific Condition #16.

e. Construction activities such as geomembrane seaming, QA/QC testing of the geosynthetics or soil materials, surveying, etc. shall not be carried out in non-daylight hours without prior Department approval. [see Spec. 02776-1.04.K, 3.03.J] If these activities will be conducted during nighttime hours, the Department shall be notified **at least ~~1 week~~ 72 hours in advance** to allow for Department observation. This notification shall include a description of the methods which will be used to provide adequate illumination to ensure that the quality of the construction is not compromised.

f. The soil subbase material shall be tested for % fines (ASTM D-1140) in accordance with Rule 62-701.400(8)(d), F.A.C. [see Spec. 02221-3.02.F.1.] The compacted soil subbase shall be tested at the frequencies listed in Table 02221-1 except that four thickness measurements shall be taken per acre per lift, and all testing frequencies on the soil subbase shall be doubled for the first five acres of construction. [Rule 62-701.400(8)(e), F.A.C.]

g. All excavations shall be maintained free from standing water. Except for the stormwater management system construction, no construction, including pipe laying, shall be allowed in water. Groundwater shall be maintained at least 2 feet below excavations. [Spec. 02140-3.01.B.] In the event that it appears that the excavation is being impacted by groundwater, the contractor shall take the corrective actions necessary to demonstrate that the groundwater is sufficiently below the bottom of the excavation.

h. Sandbags or other temporary anchoring devices shall be removed prior to subsequent placement of materials over the geosynthetics.

i. Where sod is used over lined areas, pegging of sod shall not damage the liner.

11. **Geosynthetic Materials.**

a. Smooth geomembranes [Spec. 02776-1.01.B.] or geosynthetic clay liners [see CQAP 6.4] are not authorized for use in the Section 8 construction project.

b. Seaming.

1) Seaming processes other than fusion or extrusion welding shall be approved by the Engineer and submitted to the Department prior to implementation.

2) Seaming apparatus or personnel which have failed trial welds shall not be used for seaming until passing welds are achieved.

SPECIFIC CONDITIONS:

(Specific Condition #11.b. cont'd)

3) Geomembrane seaming activities shall only be conducted during daylight hours and within the weather requirements of the Specifications, unless otherwise specifically approved by the Department. Seaming shall only take place with the "master seamer" present. [Spec. 02776-1.04.K, 3.03.J] No geomembrane seaming shall be performed unless the CQA Consultant is on-site.

4) The procedure used to temporarily bond adjacent geomembrane panels together shall not damage the geomembrane.

c. Conformance testing for the geosynthetic materials shall be in accordance with the CQAP Sections 6.1.2.2 (geomembrane), 6.2.2 (geotextiles), 6.3.3 (geocomposites) and the Specifications. The geosynthetics shall meet the requirements listed in Specification Tables 02776-2 (geomembrane), 02930-1 (geonet), 02930-2 (geotextile), and 02930-3 (geocomposite), or this permit, whichever is more stringent. Conformance testing of the geomembrane shall include stress crack resistance and oxidative induction time. In all cases, the test results shall meet or exceed the property values in the Specifications.

d. The construction methods used shall minimize wrinkles. Excessive wrinkles shall be removed, and the areas repaired. Areas where wrinkles are removed shall be repaired and re-tested in accordance with the Specifications and CQA Plan. [Spec 02776-3.03.K.]

e. The liner system shall not be damaged by excessive traffic.

f. Destructive testing.

1) Destructive tests of the geomembrane seams shall be taken at random locations, at a minimum frequency of one test location per 500 feet of seam. [Spec. 02776-3.04.B.1.] This frequency shall not be based on an average throughout the entire facility.

2) Destructive tests conducted on the geomembrane field seams shall demonstrate that the actual shear strength is at least 90 percent of the yield strength of the geomembrane, and failure is outside of the seam area. All of the samples shall meet the requirements for each test method (peel and shear) listed in Geomembrane Specifications, Table 02776-3. The strength results shall not be averaged and both sides of fusion welds shall be tested. [CQAP 6.1.9.4]

3) Work shall not proceed with any materials which will cover locations which have been destructively tested or repaired until laboratory test results which demonstrate passing values are provided to the onsite CQA manager/inspector.

g. Prior to placement of materials on the subbase, an as-built topographic survey shall be provided to the Engineer to verify conformance with the Drawings and Specifications. Each subbase shall be

accepted by the Liner Installer and Engineer in writing before placement of the next layer. [Spec. 02776-1.04.J; CQAP 6.1.3]

h. During the construction of, and until the geomembrane is placed on the subbase, the subbase shall be inspected daily for signs of desiccation, excessive moisture, or other damage. [Spec. 02221-3.03.J.] In the event that the condition of the subbase deteriorates, corrective actions shall be implemented immediately. Washouts or erosion of the geomembrane subbase shall repaired immediately.

SPECIFIC CONDITIONS:

(Specific Condition #11, cont'd)

i. No geomembrane shall be placed in an area that has become softened by precipitation or desiccated and cracked due to lack of moisture. [Spec. 02221-3.03.J.] No standing water or excessive moisture shall be allowed on the area to be lined before the geomembrane installation.

j. The geocomposite drainage material (CDN) and geotextile shall be handled (stored, placed, etc.) in a manner which prevents the infiltration of dirt and protects the CDN and geotextile from abrasion, punctures and excessive moisture.

k. The transmissivity of the geocomposite drainage material shall be a minimum of 3.7×10^{-3} m^2/sec based upon a gradient of 2% and a normal load of 10,000 psf. [Spec. 02930-Table 3]

l. The minimum interface friction angle for the geocomposite/geomembrane shall be 21 degrees. The minimum interface friction angle for the cover soil/geocomposite shall be 21 degrees. [Spec. 02930-Table 3]

12. **Leachate collection and removal system.**

a. HDPE pipe or fittings shall not be dropped during loading, unloading or placement.

b. Under no circumstances shall pipe be laid in water, and no pipe shall be laid when trench or weather conditions are unsuitable for such work.

c. Visible wires in the processed waste tires shall be limited in size in order to prevent adverse impacts to the bottom liner system. [Spec. 02220-2.06.A.]

13. **Soil Materials.**

a. The subgrade shall be compacted to a minimum of 95% Standard Proctor density. [Spec. Table 02220-3] The subgrade surface shall be free of rocks, debris, and sharp objects larger than 1-inch in any dimension, organic materials and other deleterious materials. [Spec. 02200-2.02.A.] Rocks (greater than ¼ inch in any dimension), sticks (greater than ¼ inch in diameter), roots, debris or any other deleterious materials shall not be used within 6 inches of the surface upon which the subbase will be installed. [Spec. 02221-3.01.B.]

b. The protective cover soil/sand shall have a minimum permeability of 1×10^{-3} cm/sec and shall be compacted to a minimum 95% of standard proctor for the laboratory tests. [Spec. 02220-2.05.A.]

c. Soil materials (including river rock) which contact geosynthetics (above or below) shall not contain any sharp or angular objects exceeding ¼ inch in diameter.

d. The compacted subbase shall have a maximum hydraulic conductivity of 1 x 10^{-5} cm/sec. The subbase shall be free from roots, rubbish or debris, rocks (greater than ¼ inch in any dimension), sticks (greater than ¼ inch in diameter), calcareous deposits or any other deleterious material. [Spec.02221-2.01.B.]

SPECIFIC CONDITIONS:

14. **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. A qualified field technician representing the owner shall provide full time, on-site inspection during construction. The field technician shall work under the supervision of a professional engineer registered in the State of Florida with experience in landfill liner construction.

15. **Certification of Construction Completeness. Within sixty (60) days** after construction has been completed and prior to the acceptance of waste, 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 and quality assurance to the Department for approval, and shall arrange for Department 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).

c. The owner or operator shall submit a narrative indicating all changes in plans, the cause of the deviations, and certification of the Record Drawings/Documents by the Engineer to the Department.

d. The Groundwater Monitoring System requirements listed in Specific Condition #18 shall be complete.

e. The professional engineer in charge of construction quality assurance shall submit to the Department a final report to verify conformance with the plans and specifications in accordance with Rules 62-701.400(7) and (8), F.A.C.

16. **Record Drawings/Documents.**
a. The Record Documents shall include as-built surveys which demonstrate that the lowest elevation of the cell floor has been constructed **no lower than +131.52 feet NGVD** (southwest portion), or as otherwise approved by the Department.

b. The Record Drawings/Documents shall include, but not be limited to, the following information:

1) All anchor trenches,

2) As-built elevations for the leachate collection pipes (including elevations in the trenches and inverts) and ditch elevations;

3) Daily construction reports ~~(CQA and general contractor)~~;

4) As-built drawings showing the geomembrane panel installation layout, locations of fabricated and field seams, type of seams, destructive sampling locations, locations of all repairs, panel designations;

5) All geomembrane destructive test results;

SPECIFIC CONDITIONS:

(Specific Condition #16.b., cont'd)

6) Documentation that demonstrates that all leachate collection system piping has been video inspected and/or pressure cleaned. [Spec. 15080-1.02.G.] This documentation shall also detail all deficiencies discovered and corrective actions taken;

7) results of interface friction angle testing [Spec. 02930-Table 3];

8) final report from leak detection company regarding integrity of primary liner [Spec. 02776-1.01.E.]~~; and~~

~~9) report from jet cleaning/video inspection of LCS piping [Spec. 15080 3.07.A.].~~

17. **Facility Operation Requirements.**

a. Operation of this facility is not authorized by this permit.

b. In no event shall waste be accepted at the facility until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

1) Certification of Construction Completion requirements of Specific Conditions #15 and #16,

2) a separate operation permit or substantial modification to permit 35435-007-SO,

3) financial assurance requirements of Specific Condition #24, and

4) construction of the sedimentation basins ~~stormwater management system~~.

18. **Piezometer Abandonment.** Existing piezometers P-3S and P-3D shall be abandoned **prior to the initiation of construction activities at Section 8.** The locations of these piezometers are shown on Figure M-1 prepared by SCS Engineers, received February 9, 2004 **(attached)**. These locations shall be plugged and abandoned in accordance with Rule 62-532.440, F.A.C., and the rules of the Southwest Florida Water Management District. The written documentation of piezometer abandonment shall be included in the Certification of Construction Completion described in Specific Conditions #15 and #16.

19. **Water Quality, Leachate and Gas Monitoring.** The documents listed in Specific Condition #2 do not include procedures for water quality, gas or leachate monitoring. However, since this permit authorizes construction only, water quality, leachate and gas monitoring are not required for Section 8 as part of this permit. This information shall be included in the modification or operation permit application required by Specific Condition #3.b., above.

~~20. **Ground Water Monitor Well Construction.** The following information shall be submitted for all new or replacement wells:~~

~~a. **Prior to** construction of all new or replacement wells the permittee shall request and receive Department approval of a minor permit modification.~~

~~**SPECIFIC CONDITIONS:**~~

~~(Specific Condition #20, cont'd)~~

~~b. **Within 90 days of installation (or within 90 days of discovery)** construction details (record drawings) for all new or replacement monitor wells, piezometers and supply wells shall be provided to the Department's Southwest District Office on Department Form No. 62-522.900(3), Monitor Well Completion Form (attached).~~

~~c. **Within one week of well completion and development**, each new monitor well shall be sampled for the parameters listed in Rules 62-701.510(8)(a) and 62-701.510(8)(d), F.A.C.~~

~~d. **Within 90 days of well installation (or within 90 days of discovery)** surveyed drawing(s) shall be submitted in accordance with Rule 62-701.510(3)(d)(1), F.A.C., showing the location of all monitor wells, piezometers and supply wells (active and abandoned), horizontally located in degrees, minutes and seconds of latitude and longitude, and showing the elevation of the top of the well casing to the nearest 0.01 foot, National Geodetic Vertical Datum. The surveyed drawing shall include the well or piezometer identification numbers, and the locations and elevations of all permanent benchmarks and/or corner monument markers at the site. The survey shall be conducted by a Florida Registered Surveyor.~~

2~~1~~0. **Report Submittals.** Unless otherwise specified, all reports for compliance with this permit shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.

2~~2~~1. **Stormwater Management.** The site shall have a surface water management system operated and maintained to prevent surface water flow on to waste filled areas, and a stormwater runoff control system operated and maintained to collect and control stormwater to meet the requirements of Florida Administrative Code Rule 62-330, any other applicable Department rules, and the requirements of the respective water management district.

2~~3~~2. **Closing and Long-Term Care Requirements.** The documents listed in Specific Condition #2 do not include procedures for closing and long-term monitoring and maintenance. This information shall be submitted as part of the permit or modification required by Specific Condition #3.b.

2~~4~~3. **Financial Assurance.** The owner or operator shall provide adequate financial assurance for the Class I Landfill in accordance with Rule 62-701.630, F.A.C. This information shall be submitted as part of the permit or modification required by Specific Condition #3.b.

~~a. Proof of the initial funding of the financial assurance mechanism shall be submitted no later than 60 days prior to receipt of waste in the expansion area.~~

~~b. All costs for closure shall be adjusted and submitted **annually, by September 1st each year** to: Solid Waste Program Manager, Solid Waste Section, Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.~~

~~c. Proof that the financial mechanism has been adequately funded shall be submitted **annually** to: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, MS #4565, Tallahassee, Florida 32399-2400.~~

SPECIFIC CONDITIONS:

~~25. **Monitoring of Waste.** The permittee shall not accept hazardous waste or any hazardous substance at this site. Hazardous waste is a waste 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. In the event that hazardous wastes are discovered, the Department shall be notified in accordance with Specific Condition #44.b., below. These wastes shall be disposed in accordance with applicable Department rules.~~

2~~6~~4. **Control of Nuisance Conditions.**
~~a.~~ The operating authority shall be responsible for the control of odors and fugitive particulates (dust) arising from this construction ~~and 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 disease vectors so as to protect the public health and welfare.

~~b. In the event that covering with soil does not adequately control odors, to reduce the potential for the offsite migration of objectionable odors, the owner or operator shall submit an alternate abatement plan to the Department for approval. This plan shall include, at a minimum, a description of the proposed corrective actions and a schedule for implementation.~~

2~~7~~5. **Facility Maintenance and Repair.**
a. The site shall be properly maintained including maintenance of equipment, stormwater systems, cover systems, liner and leachate collection and removal systems, groundwater monitoring system, and the prevention of erosion and ponded water in disposal areas.

b. In the event of damage to any portion of the landfill site facilities, failure of any portion of the landfill systems, fire, explosion, or the development of sinkhole(s) at the site, the permittee shall **immediately (within 24 hours)** notify the Department explaining such occurrence and remedial measures to be taken and time needed for repairs. Written, detailed notification shall be submitted to the Department **within seven (7) days** following the occurrence.

c. In the event that any portion of the groundwater monitoring system is damaged, a plan for corrective action shall be submitted in accordance with Specific Condition #25~~7~~.b. Corrective actions which include relocation or installation of new groundwater monitoring wells

shall be in accordance with Specific Condition #260~~, above~~, or as otherwise approved by the Department.

d. In the event that the stormwater system is damaged or is not operating effectively, corrective actions shall be implemented **within thirty (30) days** of the written notification specified in Specific Condition #257.b., unless otherwise approved by the Department.

26. **Ground Water Monitor Well Construction.** The following information shall be submitted for all new or replacement wells:

a. **Prior to** construction of all new or replacement wells the permittee shall request and receive Department approval of a minor permit modification.

b. **Within 90 days of installation (or within 90 days of discovery)** construction details (record drawings) for all new or replacement monitor wells, piezometers and supply wells shall be provided to the Department's Southwest District Office on Department Form No. 62-522.900(3), Monitor Well Completion Form (attached).

c. **Within one week of well completion and development**, each new monitor well shall be sampled for the parameters listed in Rules 62-701.510(8)(a) and 62-701.510(8)(d), F.A.C.

d. **Within 90 days of well installation (or within 90 days of discovery)** surveyed drawing(s) shall be submitted in accordance with Rule 62-701.510(3)(d)(1), F.A.C., showing the location of all monitor wells, piezometers and supply wells (active and abandoned), horizontally located in degrees, minutes and seconds of latitude and longitude, and showing the elevation of the top of the well casing to the nearest 0.01 foot, National Geodetic Vertical Datum. The surveyed drawing shall include the well or piezometer identification numbers, and the locations and elevations of all permanent benchmarks and/or corner monument markers at the site. The survey shall be conducted by a Florida Registered Surveyor.

278. **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.

SPECIFIC CONDITIONS:

289. **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.

2930. **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, including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.

301. **Regulations.** Chapter 62-701, F.A.C., effective May 27, 2001, 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.

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Deborah A. Getzoff
District Director
Southwest District

ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
4	180 days prior to permit renewal	Submit permit renewal application
5.a.	Within 72 hours of discovery Within 7 days of verbal notification	Notification of limestone occurrence Written notification
5.b., 27.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of: sinkholes, hazardous waste receipt, failure of landfill systems or equipment Written notification
6.a.	30 days prior to initiation of construction	Submit: complete plans, specs., CQAP, calculations, revised or new drawings, ~~org. chart, dewatering plan.~~
6.b.	7 days prior to construction	Submit org. chart, dewatering plan
7	1 week prior Within 2 weeks of meeting	Notification of pre-construction meeting Submit minutes of meeting
8.a.	15 days~~1 week~~ after preconstruction meeting	Submit construction schedule
8.b.	Monthly, by the 15th each month	Submit construction progress reports
15., 16,	Within 60 days of completion of construction and prior to operation	Submit: Certification of Construction Completion, narrative describing deviations from plans, record drawings/documents, as-built surveys, interface friction testing results, leak detection report, LCS videotape/cleaning report, piezometer abandonment documentation
18	Prior to initiation of construction	Abandon P-3S and P-3D.
20.b.	Within 90 days of well installation	Submit monitor well completion report
20.c.	Within 1 week of well completion and development	Sample well
20.d.	Within 90 days of well installation	Submit survey showing location of well
27.d.	Within 30 days of written notification	Implement corrective actions for stormwater management system

construction permit

Pelz, Susan

From: Larry Ruiz [lruiz@scsengineers.com]
Sent: Friday, July 23, 2004 4:55 PM
To: Pelz, Susan
Subject: RE: Hillsborough SCLF, Section 8

Hello Susan, we have several comments for the draft permit. I will call Monday with comments.

-----Original Message-----
From: Pelz, Susan [mailto:Susan.Pelz@dep.state.fl.us]
Sent: Tuesday, July 20, 2004 1:57 PM
To: Patty Berry (E-mail); Larry Ruiz (E-mail)
Cc: Morris, John R.; Morgan, Steve; Core, Simone
Subject: Hillsborough SCLF, Section 8

Patty,

Please find attached the DRAFT SCLF Section 8 construction permit, and "Notice of Agency Action." The Notice of Agency Action must be published & proof of publication returned to the Department. If no petitions are received, the final permit will be issued after 14 days after the Department's receipt of proof of publication.

If you have any questions or comments on the permit conditions, please call or email to discuss.

Thanks,
Susan J. Pelz, P.E.
Solid Waste Program Manager
Southwest District
813-744-6100 x 386
susan.pelz@dep.state.fl.us

<<SE.Sect8.NoticeAgencyAction.DOC>> <<35435-9.SC.DOC>>

Pelz, Susan

construction permit

From: Pelz, Susan
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SE.Sect8.NoticeAgencyAction.DOC

35435-9.SC.DOC

Tracking:

Recipient	Read
Patty Berry (E-mail)	
Larry Ruiz (E-mail)	
Morris, John R.	Read: 8/2/2004 9:37 AM
Morgan, Steve	Read: 7/20/2004 5:21 PM
Core, Simone	Read: 7/20/2004 2:45 PM

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

PERMIT/CERTIFICATION
WACS ID No: SWD/29/41193
Permit No: **35435-009-SC**
Date of Issue:
Expiration Date: **07/15/2009**
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 Section 8 construction

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-302, 62-330, 62-520, 62-522, 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 construct a expansion to a **Class I Solid Waste Landfill** (approximately 6.8 acres), referred to as **Section 8 of the Southeast County Landfill**, subject to the specific and general conditions attached, for solid waste disposal, located **8.8 miles east of U.S. Highway 301 North on County Road 672,** Hillsborough County, Florida. The general and specific conditions attached are for the construction only of:

1. Class I landfill

General Information - Section 8

Disposal acres	6.8 acres
Lowest Bottom elevation of cell	+132 NGVD (southwest corner of Section 8) [ref. #2.b., Sheet 4 of 9]
Top elevation at buildout (including cover)	Approx. +285 feet NGVD (Section 8 only) [ref. SC#2.a(3), page 7 of 8]
Liner system (bottom to top)	Subbase soil ($k \leq 1 \times 10^{-5}$ cm/sec), 60 mil textured HDPE, triplanar geocomposite drainage net, 60-mil textured HDPE, triplanar geocomposite, 12-inch protective sand layer, 12-inch tire chip layer [ref. #2.a(1)-Specs: 02776-1.01.B., 02930-1.01.A.; SC#2.b., Detail 1, Sheet 8 of 9]
LCS/drainage layer & LDS	Drainage/protective sand $\geq 1 \times 10^{-3}$ cm/sec; tire chips; woven geotextile wrapped around LCS gravel & pipes; three perforated 8-inch diameter SDR 17.5 HDPE collection laterals, connecting to Section 7 LCS pipes at south end of Section 8; LDS is triplanar composite geonet [ref. SC#2.a(1)-Specs. 02940-1.01.A, 02930-1.01.A.; SC#2.b., Sheet 5 of 9]
Leakage action rate (LDS)	164 gallons/acre/day [ref. SC#2.c(1), sheet 5 of 5]

Replaces Permit No.: N/A, new

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.

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.

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.

GENERAL CONDITIONS:

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

(a) A description of and cause of noncompliance; and

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

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

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

10. The permittee agrees to comply with changes in Department rules and Florida Statues 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

GENERAL CONDITIONS:

14. The permittee shall comply with the following:
(a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

(b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

(c) Records of monitoring information shall include:
1. the date, exact place, and time of sampling or measurements;
2. the person responsible for performing the sampling or measurements;
3. the dates analyses were performed;
4. the person responsible for performing the analyses;
5. the analytical techniques or methods used;
6. the results of such analyses.

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

SPECIFIC CONDITIONS:

1. **Facility Designation.** This site shall be classified as a solid waste Class I landfill, and shall be constructed in accordance with all applicable requirements of Chapters 62-4, 62-302, 62-330, 62-520, 62-522 and 62-701, Florida Administrative Code.

2. **Permit Application Documentation.** This permit is valid for construction only of Section 8 of the Hillsborough County Southeast Class I Landfill in accordance with the reports, plans and information submitted by SCS Engineers, Inc. (unless otherwise noted), as follows:

a. Construction Permit Application, Southeast County landfill Capacity Expansion - Section 8, Hillsborough County,... (one 3-ring bound document) dated February 4, 2004 (received February 9, 2004) and supporting information including revised information dated April 23, 2004 (received April 23, 2004) (pages inserted into original). This information includes, but is not limited to:

1) *Attachment H-1,* Technical Specifications [Spec.],
2) *Exhibit A of Attachment H-1,* Construction Quality Assurance Plan [CQAP], and
3) *Attachment H-2,* Design Calculations for Bottom Liner Components;

b. Plan Sheets titled, Southeast County Landfill Section 8 Capacity Expansion,... (9 sheets) received February 9, 2004 including revised sheets received April 23, 2004 (sheets 3, 7, 8 and 9 of 9);

c. The following information from the March 2000 Construction Permit Application Section 1 Class I Capacity Expansion, Southeast County Landfill,... (Volume 1 of 3 unless otherwise noted) including revised information inserted into original received May 17, 2000, and July 13, 2000 as follows. [Note: Section 1 was subsequently renumbered Section 7.] Portions of these documents not specifically referenced in this Specific Condition are not valid for this permit:

1) *Attachment G-3,* Leachate Generation Analysis,
2) *Attachment G-4,* Design Calculations for Bottom Liner Components,
3) *Section H,* Hydrogeological Investigation Requirements,
4) *Section I,* Geotechnical Investigation Requirements;
5) *Hydrogeological/Geotechnical Investigation,* prepared by Barnes, Ferland and Associates, Inc., dated September 1997, (received as Volume 2 of 3 of the March 2000 construction application);

and in accordance with all applicable requirements of Department rules.

3. **Permit Modifications.**

a. Any construction or operation 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. Any significant changes to the construction or operation at the facility shall require a permit modification. Permits shall be modified in accordance with the requirements of Rule 62-4.080, F.A.C. A modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review by the Department is considered a substantial modification.

SPECIFIC CONDITIONS:

(Specific Condition #3, cont'd)

b. This permit authorizes **construction** of Section 8 disposal area only. This permit **does not authorize** the operation of Section 8. Operation of Section 8 shall require a new permit or substantial modification of Operation Permit 35435-007-SO. The operation permit application shall include, but not be limited to:

1) pipe strength (crushing, buckling, ring deflection) calculations for the pipe used for Section 8 LCS (i.e., 8-inch diameter SDR 17 HDPE pipe);

2) revised slope stability and settlement calculations based on the as-built and proposed operation configurations of Section 8. the settlement calculations shall demonstrate that the LCS piping will continue to function adequately after the expected maximum settlement in Section 8;

3) a closing and long-term care plan, including description of the final cover and gas collection system;

4) revised financial assurance cost estimates;

5) plan sheets showing the method and sequence of filling, including proposed schedule for construction, operation and closing;

6) revised LDS flow capacity calculations that include leakage action rates used in the March 2000 construction submittal [ref. SC#2.c(2)];

c. Leachate recirculation or irrigation is not authorized in Section 8 [ref. SC#2.a, Section H.4.].

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.

5. **Prohibitions.** The prohibitions of Rule 62-701.300, F.A.C., shall not be violated by the activities at this site.

a. In the event that limestone is encountered during excavation or construction activities, the excavation/construction activities shall cease and the Department shall be notified **within 72 hours of discovery**. Written notification shall be submitted **within 7 days of discovery**. The written notification shall include the location, elevation, and extent of limestone noted on a plan sheet, a description of the materials encountered, and a plan of action which ensures that groundwater will not be adversely affected by the continued construction and operation of the facility. Excavation or construction activities shall not resume in the affected area until the Department-approved plan of action has been completed.

SPECIFIC CONDITIONS:

(Specific Condition #5, cont'd)

b. In the event that surface depressions which may be indicative of sinkhole activity, or subsurface instability, are discovered onsite, or within 500 feet of the site, the Department shall be notified **within 24 hours of discovery.** Written notification shall be submitted **within 7 days of discovery.** The written notification shall include a description of the depression, the location and size of the depression shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. The permittee shall ensure that no construction activity (e.g., dewatering activities) results in violation of Department rules or standards. The permittee shall ensure that flooding in the downstream area does not occur and sedimentation and turbidity are in compliance with Department standards. [Spec. 02140-3.02.B.]

6. **Pre-Construction Submittals. At least thirty (30) days prior to** initiation of any construction activity, unless otherwise specified, the permittee shall submit the following information to the Department:

a. A complete set of Plans, Specifications and CQA Plan to be used for construction which includes all changes (i.e., all additions, deletions, revisions to the plans previously approved by the Department). Significant changes in the plans, as determined by the Department, shall require a permit modification. All changes in the plans shall be noted on the plans and accompanied by a narrative indicating the change, the cause of the deviation, and a re-certification of the alternate design by the design engineer. These alternate designs shall be approved by the Department prior to construction. **If no changes have been made** to the construction plans, Specifications or CQA Plan, the permittee shall notify the Department in writing that no changes have been made, and re-submittal of these documents will not be required prior to construction.

b. New or revised plan sheets which include:

1) a NW-SE cross-section and a NE-SW cross-section (along the leachate collection trench) across the entire footprint of Section 8. The location of the cross-sections should also be shown on Sheet 5 of 9.

2) the location of the 4th temporary cleanout [ref. SC#2.b., Sheet 5 of 9];

c. An organizational chart including the role and name of the specific company/organization for each of the parties in the Project team; and

d. The dewatering plan required by Specification Section 02140-1.03.A.

7. **Pre-Construction Meeting Notification.** Department Solid Waste Permitting staff shall be notified **at least one (1) week prior** to all pre-construction meetings. Prior to initiating construction activities, the permittee shall make arrangements for the Engineer of Record to meet on site and discuss all plan changes with Department Solid Waste Permitting Staff of the Southwest District Office. A copy of the minutes from the pre-construction conference shall be submitted to the Department **within two (2) weeks** of the conference.

SPECIFIC CONDITIONS:

8. **Construction Schedule and Progress Report.**

a. **No later than one (1) week after** the pre-construction conference, the owner or operator shall submit a construction schedule which includes estimated dates for each portion of the construction to the Department. The Engineer of Record or another qualified professional engineer shall make periodic inspections during construction to ensure that design integrity is maintained.

b. An updated construction schedule and progress report shall be submitted to the Department **monthly.** The monthly progress report should be submitted in an appropriately labeled three-ring binder of sufficient size to store the monthly progress reports for the entire project. The monthly progress reports shall include, but not be limited to:

1) A narrative explaining the status (and any delays) of major stages of the construction (i.e., liner, GCL, tanks, piping, liner penetrations, etc.),

2) A summary of submittals and change order requests,

3) Weekly progress meeting minutes [Spec. 01311-1.02; CQAP 4.2], and

4) Color copies of photographs which are representative of the typical construction activities for the reporting period, and photographs which show overall views and details of major stages of construction (e.g., liner penetrations, lift station construction, tanks construction, etc.)

9. **Construction Tolerances.**

a. Pipe invert elevations for the leachate collection system piping shall be noted every 50 linear feet along the pipe and at each change in direction and elevation [Spec. 01050-1.04.C.5.] to demonstrate that the leachate collection system has been constructed to the slopes and grades shown on the drawings. This information shall be included with the Record Documents.

b. As-built topographic surveys shall demonstrate that each liner component, subgrade, subbase, top of sand drainage layer, leachate collection system, piping, etc., was constructed within the tolerance (±0.2 feet vertical and ±0.5 feet horizontal) required by the Drawings and Specifications. [Spec. 01050-3.03.A.]

10. **Construction Quality Assurance.**

a. Liner systems shall have a construction quality assurance plan to provide personnel with adequate information to achieve continuous compliance with the construction requirements. The Construction Quality Assurance Plan shall be in accordance with Rules 62-701.400(7) and (8), F.A.C., the CQA Plan [ref. SC#2.a(2)], and the conditions of this permit. The professional engineer or his designee shall be on-site at all times during construction (including liner system and leachate collection system) to monitor construction activities.

b. A complete set of construction drawings and shop drawings, which include daily additions, deletions and revisions, shall be maintained on-site at all times for reference. [Spec. 01300-1.07.B.] Drawings which show the locations of geomembrane panel seams and repairs shall be kept on-site at all times for reference.

SPECIFIC CONDITIONS:

(Specific Condition #10, cont'd)

c. Leachate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to the land, surface water or groundwater outside the liner system at any time during the construction activities.

d. Unsatisfactory, defective or non-conforming work shall be reported to the Engineer and shall be corrected, or the reasons for not correcting the work shall be recorded and maintained onsite for reference and inspections. Documentation of the corrections or reasons for not correcting the work shall be submitted with the Record Documents required by Specific Condition #16.

e. Construction activities such as geomembrane seaming, QA/QC testing of the geosynthetics or soil materials, surveying, etc. shall not be carried out in non-daylight hours without prior Department approval. [see Spec. 02776-1.04.K, 3.03.J] If these activities will be conducted during nighttime hours, the Department shall be notified **at least 1 week in advance** to allow for Department observation. This notification shall include a description of the methods which will be used to provide adequate illumination to ensure that the quality of the construction is not compromised.

f. The soil subbase material shall be tested for % fines (ASTM D-1140) in accordance with Rule 62-701.400(8)(d), F.A.C. [see Spec. 0221-3.02.F.1.] The compacted soil subbase shall be tested at the frequencies listed in Table 02221-1 except that four thickness measurements shall be taken per acre per lift, and all testing frequencies on the soil subbase shall be doubled for the first five acres of construction. [Rule 62-701.400(8)(e), F.A.C.]

g. All excavations shall be maintained free from standing water. Except for the stormwater management system construction, no construction, including pipe laying, shall be allowed in water. Groundwater shall be maintained at least 2 feet below excavations. [Spec. 02140-3.01.B.] In the event that it appears that the excavation is being impacted by groundwater, the contractor shall take the corrective actions necessary to demonstrate that the groundwater is sufficiently below the bottom of the excavation.

h. Sandbags or other temporary anchoring devices shall be removed prior to subsequent placement of materials over the geosynthetics.

i. Where sod is used over lined areas, pegging of sod shall not damage the liner.

11. **Geosynthetic Materials.**

a. Smooth geomembranes [Spec. 02776-1.01.B.] or geosynthetic clay liners [see CQAP 6.4] are not authorized for use in the Section 8 construction project.

b. Seaming.

1) Seaming processes other than fusion or extrusion welding shall be approved by the Engineer and submitted to the Department prior to implementation.

2) Seaming apparatus or personnel which have failed trial welds shall not be used for seaming until passing welds are achieved.

SPECIFIC CONDITIONS:

(Specific Condition #11.b. cont'd)

3) Geomembrane seaming activities shall only be conducted during daylight hours and within the weather requirements of the Specifications, unless otherwise specifically approved by the Department. Seaming shall only take place with the "master seamer" present. [Spec. 02776-1.04.K, 3.03.J] No geomembrane seaming shall be performed unless the CQA Consultant is on-site.

4) The procedure used to temporarily bond adjacent geomembrane panels together shall not damage the geomembrane.

c. Conformance testing for the geosynthetic materials shall be in accordance with the CQAP Sections 6.1.2.2 (geomembrane), 6.2.2 (geotextiles), 6.3.3 (geocomposites) and the Specifications. The geosynthetics shall meet the requirements listed in Specification Tables 02776-2 (geomembrane), 02930-1 (geonet), 02930-2 (geotextile), and 02930-3 (geocomposite), or this permit, whichever is more stringent. Conformance testing of the geomembrane shall include stress crack resistance and oxidative induction time. In all cases, the test results shall meet or exceed the property values in the Specifications.

d. The construction methods used shall minimize wrinkles. Excessive wrinkles shall be removed, and the areas repaired. Areas where wrinkles are removed shall be repaired and re-tested in accordance with the Specifications and CQA Plan. [Spec 02776-3.03.K.]

e. The liner system shall not be damaged by excessive traffic.

f. Destructive testing.

1) Destructive tests of the geomembrane seams shall be taken at random locations, at a minimum frequency of one test location per 500 feet of seam. [Spec. 02776-3.04.B.1.] This frequency shall not be based on an average throughout the entire facility.

2) Destructive tests conducted on the geomembrane field seams shall demonstrate that the actual shear strength is at least 90 percent of the yield strength of the geomembrane, and failure is outside of the seam area. All of the samples shall meet the requirements for each test method (peel and shear) listed in Geomembrane Specifications, Table 02776-3. The strength results shall not be averaged and both sides of fusion welds shall be tested. [CQAP 6.1.9.4]

3) Work shall not proceed with any materials which will cover locations which have been destructively tested or repaired until laboratory test results which demonstrate passing values are provided to the onsite CQA manager/inspector.

g. Prior to placement of materials on the subbase, an as-built topographic survey shall be provided to the Engineer to verify conformance with the Drawings and Specifications. Each subbase shall be accepted by the Liner Installer and Engineer in writing before placement of the next layer. [Spec. 02776-1.04.J; CQAP 6.1.3]

h. During the construction of, and until the geomembrane is placed on the subbase, the subbase shall be inspected daily for signs of desiccation, excessive moisture, or other damage. [Spec. 02221-3.03.J.] In the event that the condition of the subbase deteriorates, corrective actions shall be implemented immediately. Washouts or erosion of the geomembrane subbase shall repaired immediately.

SPECIFIC CONDITIONS:

(Specific Condition #11, cont'd)

i. No geomembrane shall be placed in an area that has become softened by precipitation or desiccated and cracked due to lack of moisture. [Spec. 02221-3.03.J.] No standing water or excessive moisture shall be allowed on the area to be lined before the geomembrane installation.

j. The geocomposite drainage material (CDN) and geotextile shall be handled (stored, placed, etc.) in a manner which prevents the infiltration of dirt and protects the CDN and geotextile from abrasion, punctures and excessive moisture.

k. The transmissivity of the geocomposite drainage material shall be a minimum of 3.7×10^{-3} m^2/sec based upon a gradient of 2% and a normal load of 10,000 psf. [Spec. 02930-Table 3]

l. The minimum interface friction angle for the geocomposite/geomembrane shall be 21 degrees. The minimum interface friction angle for the cover soil/geocomposite shall be 21 degrees. [Spec. 02930-Table 3]

12. **Leachate collection and removal system.**

a. HDPE pipe or fittings shall not be dropped during loading, unloading or placement.

b. Under no circumstances shall pipe be laid in water, and no pipe shall be laid when trench or weather conditions are unsuitable for such work.

c. Visible wires in the processed waste tires shall be limited in size in order to prevent adverse impacts to the bottom liner system. [Spec. 02220-2.06.A.]

13. **Soil Materials.**

a. The subgrade shall be compacted to a minimum of 95% Standard Proctor density. [Spec. Table 02220-3] The subgrade surface shall be free of rocks, debris, and sharp objects larger than 1-inch in any dimension, organic materials and other deleterious materials. [Spec. 02200-2.02.A.] Rocks (greater than ¼ inch in any dimension), sticks (greater than ¼ inch in diameter), roots, debris or any other deleterious materials shall not be used within 6 inches of the surface upon which the subbase will be installed. [Spec. 02221-3.01.B.]

b. The protective cover soil/sand shall have a minimum permeability of 1×10^{-3} cm/sec and shall be compacted to a minimum 95% of standard proctor. [Spec. 02220-2.05.A.]

c. Soil materials (including river rock) which contact geosynthetics (above or below) shall not contain any sharp or angular objects exceeding ¼ inch in diameter.

d. The compacted subbase shall have a maximum hydraulic conductivity of 1×10^{-5} cm/sec. The subbase shall be free from roots, rubbish or debris, rocks (greater than ¼ inch in any dimension), sticks (greater than ¼ inch in diameter), calcareous deposits or any other deleterious material. [Spec.02221-2.01.B.]

SPECIFIC CONDITIONS:

14. **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. A qualified field technician representing the owner shall provide full time, on-site inspection during construction. The field technician shall work under the supervision of a professional engineer registered in the State of Florida with experience in landfill liner construction.

15. **Certification of Construction Completeness. Within sixty (60) days** after construction has been completed and prior to the acceptance of waste, 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 and quality assurance to the Department for approval, and shall arrange for Department 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).

c. The owner or operator shall submit a narrative indicating all changes in plans, the cause of the deviations, and certification of the Record Drawings/Documents by the Engineer to the Department.

d. The Groundwater Monitoring System requirements listed in Specific Condition #18 shall be complete.

e. The professional engineer in charge of construction quality assurance shall submit to the Department a final report to verify conformance with the plans and specifications in accordance with Rules 62-701.400(7) and (8), F.A.C.

16. **Record Drawings/Documents.**

a. The Record Documents shall include as-built surveys which demonstrate that the lowest elevation of the cell floor has been constructed **no lower than +132 feet NGVD** (southwest portion), or as otherwise approved by the Department.

b. The Record Drawings/Documents shall include, but not be limited to, the following information:

1) All anchor trenches,

2) As-built elevations for the leachate collection pipes (including elevations in the trenches and inverts) and ditch elevations;

3) Daily construction reports (CQA and general contractor);

4) As-built drawings showing the geomembrane panel installation layout, locations of fabricated and field seams, type of seams, destructive sampling locations, locations of all repairs, panel designations;

5) All geomembrane destructive test results;

SPECIFIC CONDITIONS:

(Specific Condition #16.b., cont'd)

6) Documentation that demonstrates that all leachate collection system piping has been video inspected and/or pressure cleaned. [Spec. 15080-1.02.G.] This documentation shall also detail all deficiencies discovered and corrective actions taken;

7) results of interface friction angle testing [Spec. 02930-Table 3];

8) final report from leak detection company regarding integrity of primary liner [Spec. 02776-1.01.E.]; and

9) report from jet cleaning/video inspection of LCS piping [Spec. 15080-3.07.A.].

17. **Facility Operation Requirements.**

a. Operation of this facility is not authorized by this permit.

b. In no event shall waste be accepted at the facility until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

1) Certification of Construction Completion requirements of Specific Conditions #15 and #16,

2) a separate operation permit or substantial modification to permit 35435-007-SO,

3) financial assurance requirements of Specific Condition #24, and

4) construction of the stormwater management system.

18. **Piezometer Abandonment.** Existing piezometers P-3S and P-3D shall be abandoned **prior to the initiation of construction activities at Section 8.** The locations of these piezometers are shown on Figure M-1 prepared by SCS Engineers, received February 9, 2004 **(attached)**. These locations shall be plugged and abandoned in accordance with Rule 62-532.440, F.A.C., and the rules of the Southwest Florida Water Management District. The written documentation of piezometer abandonment shall be included in the Certification of Construction Completion described in Specific Conditions #15 and #16.

19. **Water Quality, Leachate and Gas Monitoring.** The documents listed in Specific Condition #2 do not include procedures for water quality, gas or leachate monitoring. However, since this permit authorizes construction only, water quality, leachate and gas monitoring are not required for Section 8 as part of this permit. This information shall be included in the modification or operation permit application required by Specific Condition #3.b., above.

20. **Ground Water Monitor Well Construction.** The following information shall be submitted for all new or replacement wells:

a. **Prior to** construction of all new or replacement wells the permittee shall request and receive Department approval of a minor permit modification.

SPECIFIC CONDITIONS:

(Specific Condition #20, cont'd)

b. **Within 90 days of installation (or within 90 days of discovery)** construction details (record drawings) for all new or replacement monitor wells, piezometers and supply wells shall be provided to the Department's Southwest District Office on Department Form No. 62-522.900(3), Monitor Well Completion Form (attached).

c. **Within one week of well completion and development**, each new monitor well shall be sampled for the parameters listed in Rules 62-701.510(8)(a) and 62-701.510(8)(d), F.A.C.

d. **Within 90 days of well installation (or within 90 days of discovery)** surveyed drawing(s) shall be submitted in accordance with Rule 62-701.510(3)(d)(1), F.A.C., showing the location of all monitor wells, piezometers and supply wells (active and abandoned), horizontally located in degrees, minutes and seconds of latitude and longitude, and showing the elevation of the top of the well casing to the nearest 0.01 foot, National Geodetic Vertical Datum. The surveyed drawing shall include the well or piezometer identification numbers, and the locations and elevations of all permanent benchmarks and/or corner monument markers at the site. The survey shall be conducted by a Florida Registered Surveyor.

21. **Report Submittals.** Unless otherwise specified, all reports for compliance with this permit shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.

22. **Stormwater Management.** The site shall have a surface water management system operated and maintained to prevent surface water flow on to waste filled areas, and a stormwater runoff control system operated and maintained to collect and control stormwater to meet the requirements of Florida Administrative Code Rule 62-330, any other applicable Department rules, and the requirements of the respective water management district.

23. **Closing and Long-Term Care Requirements.** The documents listed in Specific Condition #2 do not include procedures for closing and long-term monitoring and maintenance. This information shall be submitted as part of the permit or modification required by Specific Condition #3.b.

24. **Financial Assurance.** The owner or operator shall provide adequate financial assurance for the Class I Landfill in accordance with Rule 62-701.630, F.A.C.

a. Proof of the initial funding of the financial assurance mechanism shall be submitted no later than 60 days prior to receipt of waste in the expansion area.

b. All costs for closure shall be adjusted and submitted **annually, by September 1st each year** to: Solid Waste Program Manager, Solid Waste Section, Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.

c. Proof that the financial mechanism has been adequately funded shall be submitted **annually** to: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, MS #4565, Tallahassee, Florida 32399-2400.

SPECIFIC CONDITIONS:

25. **Monitoring of Waste.** The permittee shall not accept hazardous waste or any hazardous substance at this site. Hazardous waste is a waste 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. In the event that hazardous wastes are discovered, the Department shall be notified in accordance with Specific Condition #44.b., below. These wastes shall be disposed in accordance with applicable Department rules.

26. **Control of Nuisance Conditions.**

a. The operating authority shall be responsible for the control of odors and fugitive particulates (dust) arising from this construction and 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 disease vectors so as to protect the public health and welfare.

b. In the event that covering with soil does not adequately control odors, to reduce the potential for the offsite migration of objectionable odors, the owner or operator shall submit an alternate abatement plan to the Department for approval. This plan shall include, at a minimum, a description of the proposed corrective actions and a schedule for implementation.

27. **Facility Maintenance and Repair.**

a. The site shall be properly maintained including maintenance of equipment, stormwater systems, cover systems, liner and leachate collection and removal systems, groundwater monitoring system, and the prevention of erosion and ponded water in disposal areas.

b. In the event of damage to any portion of the landfill site facilities, failure of any portion of the landfill systems, fire, explosion, or the development of sinkhole(s) at the site, the permittee shall **immediately (within 24 hours)** notify the Department explaining such occurrence and remedial measures to be taken and time needed for repairs. Written, detailed notification shall be submitted to the Department **within seven (7) days** following the occurrence.

c. In the event that any portion of the groundwater monitoring system is damaged, a plan for corrective action shall be submitted in accordance with Specific Condition #27.b. Corrective actions which include relocation or installation of new groundwater monitoring wells shall be in accordance with Specific Condition #20, above, or as otherwise approved by the Department.

d. In the event that the stormwater system is damaged or is not operating effectively, corrective actions shall be implemented **within thirty (30) days** of the written notification specified in Specific Condition #27.b., unless otherwise approved by the Department.

28. **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.

SPECIFIC CONDITIONS:

29. **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.

30. **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, including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.

31. **Regulations.** Chapter 62-701, F.A.C., effective May 27, 2001, 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.

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

_____

Deborah A. Getzoff
District Director
Southwest District

ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
4	180 days prior to permit renewal	Submit permit renewal application
5.a.	Within 72 hours of discovery Within 7 days of verbal notification	Notification of limestone occurrence Written notification
5.b., 27.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of: sinkholes, hazardous waste receipt, failure of landfill systems or equipment Written notification
6	30 days prior to initiation of construction	Submit: complete plans, specs., CQAP, calculations, revised or new drawings, org. chart, dewatering plan.
7	1 week prior Within 2 weeks of meeting	Notification of pre-construction meeting Submit minutes of meeting
8.a.	1 week after preconstruction meeting	Submit construction schedule
8.b.	Monthly	Submit construction progress reports
15., 16,	Within 60 days of completion of construction and prior to operation	Submit: Certification of Construction Completion, narrative describing deviations from plans, record drawings/documents, as-built surveys, interface friction testing results, leak detection report, LCS videotape/cleaning report, piezometer abandonment documentation
18	Prior to initiation of construction	Abandon P-3S and P-3D.
20.b.	Within 90 days of well installation	Submit monitor well completion report
20.c.	Within 1 week of well completion and development	Sample well
20.d.	Within 90 days of well installation	Submit survey showing location of well
27.d.	Within 30 days of written notification	Implement corrective actions for stormwater management system

Florida Department of

Memorandum

Environmental Protection

PERMIT COVER MEMO

TO: x **DEBORAH A. GETZOFF, Director of District Management**

FROM/THROUGH:
William Kutash, **ENVIRONMENTAL ADMINISTRATOR**
Susan Pelz, P.E. 7/20/04 **SOLID WASTE MANAGER**

DATE: July 20, 2004

FILE NAME: Hillsborough Co SELF-Sect.8 **PERMIT #:**35435-009-SC
PROGRAM : Solid Waste **COUNTY : Hillsborough**

TYPE OF PERMIT ACTION: ISSUE ___ DENY ___MODIFY
___TRANSFER OWNER ___NOD
___PUBLIC NOTICE X INTENT TO ISSUE
PUBLIC NOTICE PERIOD CLOSED? _____ **PETITION FILED?**

PERMIT SUMMARY: This permit is for construction of a lateral expansion (Section 8) of the existing Hillsborough County Southeast Class I landfill. The facility is a lined Class I landfill, and the site includes Class I disposal, leachate treatment and storage facilities and a waste tire processing facility (separate permit). The application does not include operational information. This information will required as part of a separate operation permit application or substantial modification.

PROFESSIONAL RECOMMENDATION: X **APPROVE** ____ **DENY**

EVALUATION SUMMARY: The applicant has provided the required documentation and financial assurance.

Total processing time (TIH)- 163 days (to 07-20-04)

		TTP
Application received	02/09/04	
RAI #1 sent	03/10/04 (KF)	30
Response received	04/23/04	
Application complete	04/23/04 (KF/SJP)	
Intent to Issue and draft permit to applicant	07/20/04 (SJP)	89
Comments from applicant rec'd		
Proof of publication rec'd		
Final permit for routing		

DAY 90/30 FOR THIS ACTION IS: ASAP - TODAY, day 90=7/22/04

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

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Sent To
Hillsborough County
Solid Waste Management Department
c/o Mr. Daryl Smith, Director
Street, Apt. No.; or PO Box No. PO Box 1110
City, State, ZIP+ Tampa, FL 33601

PS Form 3800, June 2002 See Reverse for Instructions

SENDER: Intent To Issue # 35435-004-SC
- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b. SCLF-Sent. 8
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write *"Return Receipt Requested"* on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

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

4a. Article Number
7002 3150 0003 8459 6030

4b. Service Type
☐ Registered ☐ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
7-21-04

5. Received By: *(Print Name)*

8. Addressee's Address *(Only if requested and fee is paid)*

6. Signature: *(Addressee or Agent)*
X [signature]

PS Form **3811**, December 1994 102595-97-B-0179 Domestic Return Receipt

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State of Florida
Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619-1352

RECEIVED
JUL 23 2004
Environmental Protection
SWEST DISTRICT
BY

Susan Pelz, Solid Waste

33619+1352

Department of Environmental Protection

Jeb Bush
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Colleen M. Castille
Secretary

CERTIFIED MAIL 7002 3150 0003 8459 6030
RETURN RECEIPT REQUESTED

July 20, 2004

In the matter of an
Application for Permit by:

DEP File No. 35435-009-SC,
Hillsborough County

Hillsborough County Solid Waste Management Dept.
Mr. Daryl Smith, Director
P.O. Box 1110
Tampa, Fl. 33601

INTENT TO ISSUE

The Department of Environmental Protection hereby gives notice of its Intent to Issue a permit (copy attached) for the proposed project as detailed in the application specified above, for the reasons stated below.

The applicant, Hillsborough County Solid Waste Management Department, Mr. Daryl Smith, Director, applied on February 9, 2004, to the Department of Environmental Protection for a permit to construct an expansion (Section 8) of an existing, lined Class I landfill, referred to as the Hillsborough County Southeast landfill, located on County road 672, 8.8 miles east of U.S. Highway 301 north, Hillsborough County, Florida.

The Department has permitting jurisdiction under 403.707 and 403.861, Florida Statutes, and Rules 62-4 and 62-701, Florida Administrative Code (F.A.C.). The project is not exempt from permitting procedures. The Department has determined that a site-specific construction permit is required for the proposed work.

The Department intends to issue this permit based on its belief that reasonable assurances have been provided to indicate that the proposed project will not adversely impact water quality and the proposed project

will comply with appropriate provisions of Chapters 62-4, 62-301, 62-330, 62-520, 62-522, and 62-701, F.A.C., subject to the specific conditions attached in the permit. Pursuant to Section 403.815, Florida Statutes and Rule 62-110.106, F.A.C., **you (the applicant) are required to publish at your own expense the enclosed Notice of Proposed Agency Action on Permit Application.** The notice must be published one time only within thirty (30) days of receipt of this intent in the legal ad section of a newspaper of general circulation in the area affected. Proof of publication must be provided to the Department **within seven (7) days** of publication of the notice. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit. The Department will issue the permit with the attached conditions unless petition for administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, Florida Statutes.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any other person must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the

appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information:

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number, and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by the petitioner, if any;

(e) A statement of the facts that the petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement identifying the rules or statutes that the petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take with respect to the action or proposed action addressed in this notice of intent.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above. Mediation is not available in this proceeding. 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 of intent.

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Deborah A. Getzoff
District Director
Southwest District

DAG/sjp
Attachments
Copies furnished to:
Hillsborough County Notification List
Hillsborough County Elected Officials
Raymond Dever, P.E., SCS Engineers, Inc., 3012 US Highway 301 North, Suite 700, Tampa, Fl. 33619
Ron Cope, HCEPC
Douglas Beason, FDEP OGC Tallahassee
Fred Wick, FDEP Tallahassee
Richard Tedder, P.E., FDEP Tallahassee
David G. Smith, P.E., FDEP Tampa, ERP

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this **NOTICE OF INTENT TO ISSUE** and all copies were mailed before the close of business on July 20, 2004 to the listed persons.
Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED,
on this date, pursuant to
Section 120.52(11), Florida
Statutes, with the designated
Department Clerk, receipt of which
is hereby acknowledged.

Dana Black (Clerk) 07/20/04 (Date)

State of Florida
Department of Environmental Protection
Notice of Proposed Agency Action on Permit Application

The Department gives notice of its intent to issue a permit to Hillsborough County Solid Waste Management Department, Mr. Daryl Smith, Director, who applied on February 9,2004, to the Department of Environmental Protection to construct a lateral expansion (Section 8) of an existing Class I Landfill, located on County Road 672, 8.8 miles east of US Highway 301 North, Hillsborough County, Florida. **This permit application includes construction only of Section 8 of the existing Hillsborough County Southeast Class I Landfill.**

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below, and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Blvd., MS#35, Tallahassee, Florida 32399-3000, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The petition shall contain the following information:

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of Department's action, or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above. Mediation is not available in this proceeding.

Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rules 62-110.106, 28-106.201, and 28-106.301 F.A.C.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.

Department of Environmental Protection

Jeb Bush
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Colleen M. Castille
Secretary

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

DRAFT

PERMIT/CERTIFICATION
WACS ID No: SWD/29/41193
Permit No: **35435-009-SC**
Date of Issue:
Expiration Date: **07/15/2009**
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 Section 8 construction

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-302, 62-330, 62-520, 62-522, 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 construct a expansion to a **Class I Solid Waste Landfill** (approximately 6.8 acres), referred to as **Section 8 of the Southeast County Landfill**, subject to the specific and general conditions attached, for solid waste disposal, located **8.8 miles east of U.S. Highway 301 North on County Road 672,** Hillsborough County, Florida. The general and specific conditions attached are for the construction only of:

1. Class I landfill

General Information - Section 8

Disposal acres	6.8 acres
Lowest Bottom elevation of cell	+132 NGVD (southwest corner of Section 8) [ref. #2.b., Sheet 4 of 9]
Top elevation at buildout (including cover)	Approx. +285 feet NGVD (Section 8 only) [ref. SC#2.a(3), page 7 of 8]
Liner system (bottom to top)	Subbase soil ($k \leq 1 \times 10^{-5}$ cm/sec), 60 mil textured HDPE, triplanar geocomposite drainage net, 60-mil textured HDPE, triplanar geocomposite, 12-inch protective sand layer, 12-inch tire chip layer [ref. #2.a(1)-Specs: 02776-1.01.B., 02930-1.01.A.; SC#2.b., Detail 1, Sheet 8 of 9]
LCS/drainage layer & LDS	Drainage/protective sand $\geq 1 \times 10^{-3}$ cm/sec; tire chips; woven geotextile wrapped around LCS gravel & pipes; three perforated 8-inch diameter SDR 17.5 HDPE collection laterals, connecting to Section 7 LCS pipes at south end of Section 8; LDS is triplanar composite geonet [ref. SC#2.a(1)-Specs. 02940-1.01.A, 02930-1.01.A.; SC#2.b., Sheet 5 of 9]
Leakage action rate (LDS)	164 gallons/acre/day [ref. SC#2.c(1), sheet 5 of 5]

Replaces Permit No.: N/A, new

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.

Printed on recycled paper.

GENERAL CONDITIONS: **DRAFT**

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.

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.

DRAFT

GENERAL CONDITIONS:

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

(a) A description of and cause of noncompliance; and

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

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

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

10. The permittee agrees to comply with changes in Department rules and Florida Statues 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

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GENERAL CONDITIONS:

14. The permittee shall comply with the following:
(a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

(b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

(c) Records of monitoring information shall include:
1. the date, exact place, and time of sampling or measurements;
2. the person responsible for performing the sampling or measurements;
3. the dates analyses were performed;
4. the person responsible for performing the analyses;
5. the analytical techniques or methods used;
6. the results of such analyses.

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

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SPECIFIC CONDITIONS:

1. **Facility Designation.** This site shall be classified as a solid waste Class I landfill, and shall be constructed in accordance with all applicable requirements of Chapters 62-4, 62-302, 62-330, 62-520, 62-522 and 62-701, Florida Administrative Code.

2. **Permit Application Documentation.** This permit is valid for construction only of Section 8 of the Hillsborough County Southeast Class I Landfill in accordance with the reports, plans and information submitted by SCS Engineers, Inc. (unless otherwise noted), as follows:

a. Construction Permit Application, Southeast County landfill Capacity Expansion - Section 8, Hillsborough County,... (one 3-ring bound document) dated February 4, 2004 (received February 9, 2004) and supporting information including revised information dated April 23, 2004 (received April 23, 2004) (pages inserted into original). This information includes, but is not limited to:

1) *Attachment H-1,* Technical Specifications [Spec.],
2) *Exhibit A of Attachment H-1,* Construction Quality Assurance Plan [CQAP], and
3) *Attachment H-2,* Design Calculations for Bottom Liner Components;

b. Plan Sheets titled, Southeast County Landfill Section 8 Capacity Expansion,... (9 sheets) received February 9, 2004 including revised sheets received April 23, 2004 (sheets 3, 7, 8 and 9 of 9);

c. The following information from the March 2000 Construction Permit Application Section 1 Class I Capacity Expansion, Southeast County Landfill,... (Volume 1 of 3 unless otherwise noted) including revised information inserted into original received May 17, 2000, and July 13, 2000 as follows. [Note: Section 1 was subsequently renumbered Section 7.] Portions of these documents not specifically referenced in this Specific Condition are not valid for this permit:

1) *Attachment G-3,* Leachate Generation Analysis,
2) *Attachment G-4,* Design Calculations for Bottom Liner Components,
3) *Section H,* Hydrogeological Investigation Requirements,
4) *Section I,* Geotechnical Investigation Requirements;
5) *Hydrogeological/Geotechnical Investigation,* prepared by Barnes, Ferland and Associates, Inc., dated September 1997, (received as Volume 2 of 3 of the March 2000 construction application);

and in accordance with all applicable requirements of Department rules.

3. **Permit Modifications.**

a. Any construction or operation 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. Any significant changes to the construction or operation at the facility shall require a permit modification. Permits shall be modified in accordance with the requirements of Rule 62-4.080, F.A.C. A modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review by the Department is considered a substantial modification.

SPECIFIC CONDITIONS: DRAFT

(Specific Condition #3, cont'd)

b. This permit authorizes **construction** of Section 8 disposal area only. This permit **does not authorize** the operation of Section 8. Operation of Section 8 shall require a new permit or substantial modification of Operation Permit 35435-007-SO. The operation permit application shall include, but not be limited to:

1) pipe strength (crushing, buckling, ring deflection) calculations for the pipe used for Section 8 LCS (i.e., 8-inch diameter SDR 17 HDPE pipe);

2) revised slope stability and settlement calculations based on the as-built and proposed operation configurations of Section 8. the settlement calculations shall demonstrate that the LCS piping will continue to function adequately after the expected maximum settlement in Section 8;

3) a closing and long-term care plan, including description of the final cover and gas collection system;

4) revised financial assurance cost estimates;

5) plan sheets showing the method and sequence of filling, including proposed schedule for construction, operation and closing;

6) revised LDS flow capacity calculations that include leakage action rates used in the March 2000 construction submittal [ref. SC#2.c(2)];

c. Leachate recirculation or irrigation is not authorized in Section 8 [ref. SC#2.a, Section H.4.].

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.

5. **Prohibitions.** The prohibitions of Rule 62-701.300, F.A.C., shall not be violated by the activities at this site.

a. In the event that limestone is encountered during excavation or construction activities, the excavation/construction activities shall cease and the Department shall be notified **within 72 hours of discovery.** Written notification shall be submitted **within 7 days of discovery.** The written notification shall include the location, elevation, and extent of limestone noted on a plan sheet, a description of the materials encountered, and a plan of action which ensures that groundwater will not be adversely affected by the continued construction and operation of the facility. Excavation or construction activities shall not resume in the affected area until the Department-approved plan of action has been completed.

SPECIFIC CONDITIONS: **DRAFT**

(Specific Condition #5, cont'd)

b. In the event that surface depressions which may be indicative of sinkhole activity, or subsurface instability, are discovered onsite, or within 500 feet of the site, the Department shall be notified **within 24 hours of discovery.** Written notification shall be submitted **within 7 days of discovery.** The written notification shall include a description of the depression, the location and size of the depression shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. The permittee shall ensure that no construction activity (e.g., dewatering activities) results in violation of Department rules or standards. The permittee shall ensure that flooding in the downstream area does not occur and sedimentation and turbidity are in compliance with Department standards. [Spec. 02140-3.02.B.]

6. **Pre-Construction Submittals. At least thirty (30) days prior to** initiation of any construction activity, unless otherwise specified, the permittee shall submit the following information to the Department:

a. A complete set of Plans, Specifications and CQA Plan to be used for construction which includes all changes (i.e., all additions, deletions, revisions to the plans previously approved by the Department). Significant changes in the plans, as determined by the Department, shall require a permit modification. All changes in the plans shall be noted on the plans and accompanied by a narrative indicating the change, the cause of the deviation, and a re-certification of the alternate design by the design engineer. These alternate designs shall be approved by the Department prior to construction. **If no changes have been made** to the construction plans, Specifications or CQA Plan, the permittee shall notify the Department in writing that no changes have been made, and re-submittal of these documents will not be required prior to construction.

b. New or revised plan sheets which include:
1) a NW-SE cross-section and a NE-SW cross-section (along the leachate collection trench) across the entire footprint of Section 8. The location of the cross-sections should also be shown on Sheet 5 of 9.

2) the location of the 4th temporary cleanout [ref. SC#2.b., Sheet 5 of 9];

c. An organizational chart including the role and name of the specific company/organization for each of the parties in the Project team; and

d. The dewatering plan required by Specification Section 02140-1.03.A.

7. **Pre-Construction Meeting Notification.** Department Solid Waste Permitting staff shall be notified **at least one (1) week prior** to all pre-construction meetings. Prior to initiating construction activities, the permittee shall make arrangements for the Engineer of Record to meet on site and discuss all plan changes with Department Solid Waste Permitting Staff of the Southwest District Office. A copy of the minutes from the pre-construction conference shall be submitted to the Department **within two (2) weeks** of the conference.

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SPECIFIC CONDITIONS:

8. **Construction Schedule and Progress Report.**

a. **No later than one (1) week after** the pre-construction conference, the owner or operator shall submit a construction schedule which includes estimated dates for each portion of the construction to the Department. The Engineer of Record or another qualified professional engineer shall make periodic inspections during construction to ensure that design integrity is maintained.

b. An updated construction schedule and progress report shall be submitted to the Department **monthly.** The monthly progress report should be submitted in an appropriately labeled three-ring binder of sufficient size to store the monthly progress reports for the entire project. The monthly progress reports shall include, but not be limited to:

1) A narrative explaining the status (and any delays) of major stages of the construction (i.e., liner, GCL, tanks, piping, liner penetrations, etc.),

2) A summary of submittals and change order requests,

3) Weekly progress meeting minutes [Spec. 01311-1.02; CQAP 4.2], and

4) Color copies of photographs which are representative of the typical construction activities for the reporting period, and photographs which show overall views and details of major stages of construction (e.g., liner penetrations, lift station construction, tanks construction, etc.)

9. **Construction Tolerances.**

a. Pipe invert elevations for the leachate collection system piping shall be noted every 50 linear feet along the pipe and at each change in direction and elevation [Spec. 01050-1.04.C.5.] to demonstrate that the leachate collection system has been constructed to the slopes and grades shown on the drawings. This information shall be included with the Record Documents.

b. As-built topographic surveys shall demonstrate that each liner component, subgrade, subbase, top of sand drainage layer, leachate collection system, piping, etc., was constructed within the tolerance (±0.2 feet vertical and ±0.5 feet horizontal) required by the Drawings and Specifications. [Spec. 01050-3.03.A.]

10. **Construction Quality Assurance.**

a. Liner systems shall have a construction quality assurance plan to provide personnel with adequate information to achieve continuous compliance with the construction requirements. The Construction Quality Assurance Plan shall be in accordance with Rules 62-701.400(7) and (8), F.A.C., the CQA Plan [ref. SC#2.a(2)], and the conditions of this permit. The professional engineer or his designee shall be on-site at all times during construction (including liner system and leachate collection system) to monitor construction activities.

b. A complete set of construction drawings and shop drawings, which include daily additions, deletions and revisions, shall be maintained on-site at all times for reference. [Spec. 01300-1.07.B.] Drawings which show the locations of geomembrane panel seams and repairs shall be kept on-site at all times for reference.

SPECIFIC CONDITIONS: DRAFT

(Specific Condition #10, cont'd)

c. Leachate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to the land, surface water or groundwater outside the liner system at any time during the construction activities.

d. Unsatisfactory, defective or non-conforming work shall be reported to the Engineer and shall be corrected, or the reasons for not correcting the work shall be recorded and maintained onsite for reference and inspections. Documentation of the corrections or reasons for not correcting the work shall be submitted with the Record Documents required by Specific Condition #16.

e. Construction activities such as geomembrane seaming, QA/QC testing of the geosynthetics or soil materials, surveying, etc. shall not be carried out in non-daylight hours without prior Department approval. [see Spec. 02776-1.04.K, 3.03.J] If these activities will be conducted during nighttime hours, the Department shall be notified **at least 1 week in advance** to allow for Department observation. This notification shall include a description of the methods which will be used to provide adequate illumination to ensure that the quality of the construction is not compromised.

f. The soil subbase material shall be tested for % fines (ASTM D-1140) in accordance with Rule 62-701.400(8)(d), F.A.C. [see Spec. 0221-3.02.F.1.] The compacted soil subbase shall be tested at the frequencies listed in Table 02221-1 except that four thickness measurements shall be taken per acre per lift, and all testing frequencies on the soil subbase shall be doubled for the first five acres of construction. [Rule 62-701.400(8)(e), F.A.C.]

g. All excavations shall be maintained free from standing water. Except for the stormwater management system construction, no construction, including pipe laying, shall be allowed in water. Groundwater shall be maintained at least 2 feet below excavations. [Spec. 02140-3.01.B.] In the event that it appears that the excavation is being impacted by groundwater, the contractor shall take the corrective actions necessary to demonstrate that the groundwater is sufficiently below the bottom of the excavation.

h. Sandbags or other temporary anchoring devices shall be removed prior to subsequent placement of materials over the geosynthetics.

i. Where sod is used over lined areas, pegging of sod shall not damage the liner.

11. **Geosynthetic Materials.**

a. Smooth geomembranes [Spec. 02776-1.01.B.] or geosynthetic clay liners [see CQAP 6.4] are not authorized for use in the Section 8 construction project.

b. Seaming.

1) Seaming processes other than fusion or extrusion welding shall be approved by the Engineer and submitted to the Department prior to implementation.

2) Seaming apparatus or personnel which have failed trial welds shall not be used for seaming until passing welds are achieved.

SPECIFIC CONDITIONS: DRAFT

(Specific Condition #11.b. cont'd)

3) Geomembrane seaming activities shall only be conducted during daylight hours and within the weather requirements of the Specifications, unless otherwise specifically approved by the Department. Seaming shall only take place with the "master seamer" present. [Spec. 02776-1.04.K, 3.03.J] No geomembrane seaming shall be performed unless the CQA Consultant is on-site.

4) The procedure used to temporarily bond adjacent geomembrane panels together shall not damage the geomembrane.

c. Conformance testing for the geosynthetic materials shall be in accordance with the CQAP Sections 6.1.2.2 (geomembrane), 6.2.2 (geotextiles), 6.3.3 (geocomposites) and the Specifications. The geosynthetics shall meet the requirements listed in Specification Tables 02776-2 (geomembrane), 02930-1 (geonet), 02930-2 (geotextile), and 02930-3 (geocomposite), or this permit, whichever is more stringent. Conformance testing of the geomembrane shall include stress crack resistance and oxidative induction time. In all cases, the test results shall meet or exceed the property values in the Specifications.

d. The construction methods used shall minimize wrinkles. Excessive wrinkles shall be removed, and the areas repaired. Areas where wrinkles are removed shall be repaired and re-tested in accordance with the Specifications and CQA Plan. [Spec 02776-3.03.K.]

e. The liner system shall not be damaged by excessive traffic.

f. Destructive testing.

1) Destructive tests of the geomembrane seams shall be taken at random locations, at a minimum frequency of one test location per 500 feet of seam. [Spec. 02776-3.04.B.1.] This frequency shall not be based on an average throughout the entire facility.

2) Destructive tests conducted on the geomembrane field seams shall demonstrate that the actual shear strength is at least 90 percent of the yield strength of the geomembrane, and failure is outside of the seam area. All of the samples shall meet the requirements for each test method (peel and shear) listed in Geomembrane Specifications, Table 02776-3. The strength results shall not be averaged and both sides of fusion welds shall be tested. [CQAP 6.1.9.4]

3) Work shall not proceed with any materials which will cover locations which have been destructively tested or repaired until laboratory test results which demonstrate passing values are provided to the onsite CQA manager/inspector.

g. Prior to placement of materials on the subbase, an as-built topographic survey shall be provided to the Engineer to verify conformance with the Drawings and Specifications. Each subbase shall be accepted by the Liner Installer and Engineer in writing before placement of the next layer. [Spec. 02776-1.04.J; CQAP 6.1.3]

h. During the construction of, and until the geomembrane is placed on the subbase, the subbase shall be inspected daily for signs of desiccation, excessive moisture, or other damage. [Spec. 02221-3.03.J.] In the event that the condition of the subbase deteriorates, corrective actions shall be implemented immediately. Washouts or erosion of the geomembrane subbase shall repaired immediately.

SPECIFIC CONDITIONS:

(Specific Condition #11, cont'd)

i. No geomembrane shall be placed in an area that has become softened by precipitation or desiccated and cracked due to lack of moisture. [Spec. 02221-3.03.J.] No standing water or excessive moisture shall be allowed on the area to be lined before the geomembrane installation.

j. The geocomposite drainage material (CDN) and geotextile shall be handled (stored, placed, etc.) in a manner which prevents the infiltration of dirt and protects the CDN and geotextile from abrasion, punctures and excessive moisture.

k. The transmissivity of the geocomposite drainage material shall be a minimum of 3.7×10^{-3} m^2/sec based upon a gradient of 2% and a normal load of 10,000 psf. [Spec. 02930-Table 3]

l. The minimum interface friction angle for the geocomposite/geomembrane shall be 21 degrees. The minimum interface friction angle for the cover soil/geocomposite shall be 21 degrees. [Spec. 02930-Table 3]

12. **Leachate collection and removal system.**

a. HDPE pipe or fittings shall not be dropped during loading, unloading or placement.

b. Under no circumstances shall pipe be laid in water, and no pipe shall be laid when trench or weather conditions are unsuitable for such work.

c. Visible wires in the processed waste tires shall be limited in size in order to prevent adverse impacts to the bottom liner system. [Spec. 02220-2.06.A.]

13. **Soil Materials.**

a. The subgrade shall be compacted to a minimum of 95% Standard Proctor density. [Spec. Table 02220-3] The subgrade surface shall be free of rocks, debris, and sharp objects larger than 1-inch in any dimension, organic materials and other deleterious materials. [Spec. 02200-2.02.A.] Rocks (greater than ¼ inch in any dimension), sticks (greater than ¼ inch in diameter), roots, debris or any other deleterious materials shall not be used within 6 inches of the surface upon which the subbase will be installed. [Spec. 02221-3.01.B.]

b. The protective cover soil/sand shall have a minimum permeability of 1×10^{-3} cm/sec and shall be compacted to a minimum 95% of standard proctor. [Spec. 02220-2.05.A.]

c. Soil materials (including river rock) which contact geosynthetics (above or below) shall not contain any sharp or angular objects exceeding ¼ inch in diameter.

d. The compacted subbase shall have a maximum hydraulic conductivity of 1×10^{-5} cm/sec. The subbase shall be free from roots, rubbish or debris, rocks (greater than ¼ inch in any dimension), sticks (greater than ¼ inch in diameter), calcareous deposits or any other deleterious material. [Spec.02221-2.01.B.]

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SPECIFIC CONDITIONS:

14. **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. A qualified field technician representing the owner shall provide full time, on-site inspection during construction. The field technician shall work under the supervision of a professional engineer registered in the State of Florida with experience in landfill liner construction.

15. **Certification of Construction Completeness. Within sixty (60) days** after construction has been completed and prior to the acceptance of waste, 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 and quality assurance to the Department for approval, and shall arrange for Department 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).

c. The owner or operator shall submit a narrative indicating all changes in plans, the cause of the deviations, and certification of the Record Drawings/Documents by the Engineer to the Department.

d. The Groundwater Monitoring System requirements listed in Specific Condition #18 shall be complete.

e. The professional engineer in charge of construction quality assurance shall submit to the Department a final report to verify conformance with the plans and specifications in accordance with Rules 62-701.400(7) and (8), F.A.C.

16. **Record Drawings/Documents.**

a. The Record Documents shall include as-built surveys which demonstrate that the lowest elevation of the cell floor has been constructed **no lower than +132 feet NGVD** (southwest portion), or as otherwise approved by the Department.

b. The Record Drawings/Documents shall include, but not be limited to, the following information:

1) All anchor trenches,

2) As-built elevations for the leachate collection pipes (including elevations in the trenches and inverts) and ditch elevations;

3) Daily construction reports (CQA and general contractor);

4) As-built drawings showing the geomembrane panel installation layout, locations of fabricated and field seams, type of seams, destructive sampling locations, locations of all repairs, panel designations;

5) All geomembrane destructive test results;

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SPECIFIC CONDITIONS:

(Specific Condition #16.b., cont'd)

6) Documentation that demonstrates that all leachate collection system piping has been video inspected and/or pressure cleaned. [Spec. 15080-1.02.G.] This documentation shall also detail all deficiencies discovered and corrective actions taken;

7) results of interface friction angle testing [Spec. 02930-Table 3];

8) final report from leak detection company regarding integrity of primary liner [Spec. 02776-1.01.E.]; and

9) report from jet cleaning/video inspection of LCS piping [Spec. 15080-3.07.A.].

17. **Facility Operation Requirements.**

a. Operation of this facility is not authorized by this permit.

b. In no event shall waste be accepted at the facility until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

1) Certification of Construction Completion requirements of Specific Conditions #15 and #16,

2) a separate operation permit or substantial modification to permit 35435-007-SO;

3) financial assurance requirements of Specific Condition #24, and

4) construction of the stormwater management system.

18. **Piezometer Abandonment.** Existing piezometers P-3S and P-3D shall be abandoned **prior to the initiation of construction activities at Section 8**. The locations of these piezometers are shown on Figure M-1 prepared by SCS Engineers, received February 9, 2004 **(attached)**. These locations shall be plugged and abandoned in accordance with Rule 62-532.440, F.A.C., and the rules of the Southwest Florida Water Management District. The written documentation of piezometer abandonment shall be included in the Certification of Construction Completion described in Specific Conditions #15 and #16.

19. **Water Quality, Leachate and Gas Monitoring.** The documents listed in Specific Condition #2 do not include procedures for water quality, gas or leachate monitoring. However, since this permit authorizes construction only, water quality, leachate and gas monitoring are not required for Section 8 as part of this permit. This information shall be included in the modification or operation permit application required by Specific Condition #3.b., above.

20. **Ground Water Monitor Well Construction.** The following information shall be submitted for all new or replacement wells:

a. **Prior to** construction of all new or replacement wells the permittee shall request and receive Department approval of a minor permit modification.

SPECIFIC CONDITIONS: DRAFT

(Specific Condition #20, cont'd)

b. **Within 90 days of installation (or within 90 days of discovery)** construction details (record drawings) for all new or replacement monitor wells, piezometers and supply wells shall be provided to the Department's Southwest District Office on Department Form No. 62-522.900(3), Monitor Well Completion Form (attached).

c. **Within one week of well completion and development**, each new monitor well shall be sampled for the parameters listed in Rules 62-701.510(8)(a) and 62-701.510(8)(d), F.A.C.

d. **Within 90 days of well installation (or within 90 days of discovery)** surveyed drawing(s) shall be submitted in accordance with Rule 62-701.510(3)(d)(1), F.A.C., showing the location of all monitor wells, piezometers and supply wells (active and abandoned), horizontally located in degrees, minutes and seconds of latitude and longitude, and showing the elevation of the top of the well casing to the nearest 0.01 foot, National Geodetic Vertical Datum. The surveyed drawing shall include the well or piezometer identification numbers, and the locations and elevations of all permanent benchmarks and/or corner monument markers at the site. The survey shall be conducted by a Florida Registered Surveyor.

21. **Report Submittals.** Unless otherwise specified, all reports for compliance with this permit shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.

22. **Stormwater Management.** The site shall have a surface water management system operated and maintained to prevent surface water flow on to waste filled areas, and a stormwater runoff control system operated and maintained to collect and control stormwater to meet the requirements of Florida Administrative Code Rule 62-330, any other applicable Department rules, and the requirements of the respective water management district.

23. **Closing and Long-Term Care Requirements.** The documents listed in Specific Condition #2 do not include procedures for closing and long-term monitoring and maintenance. This information shall be submitted as part of the permit or modification required by Specific Condition #3.b.

24. **Financial Assurance.** The owner or operator shall provide adequate financial assurance for the Class I Landfill in accordance with Rule 62-701.630, F.A.C.

a. Proof of the initial funding of the financial assurance mechanism shall be submitted no later than 60 days prior to receipt of waste in the expansion area.

b. All costs for closure shall be adjusted and submitted **annually, by September 1st each year** to: Solid Waste Program Manager, Solid Waste Section, Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.

c. Proof that the financial mechanism has been adequately funded shall be submitted **annually** to: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, MS #4565, Tallahassee, Florida 32399-2400.

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SPECIFIC CONDITIONS:

25. **Monitoring of Waste.** The permittee shall not accept hazardous waste or any hazardous substance at this site. Hazardous waste is a waste 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. In the event that hazardous wastes are discovered, the Department shall be notified in accordance with Specific Condition #44.b., below. These wastes shall be disposed in accordance with applicable Department rules.

26. **Control of Nuisance Conditions.**

a. The operating authority shall be responsible for the control of odors and fugitive particulates (dust) arising from this construction and 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 disease vectors so as to protect the public health and welfare.

b. In the event that covering with soil does not adequately control odors, to reduce the potential for the offsite migration of objectionable odors, the owner or operator shall submit an alternate abatement plan to the Department for approval. This plan shall include, at a minimum, a description of the proposed corrective actions and a schedule for implementation.

27. **Facility Maintenance and Repair.**

a. The site shall be properly maintained including maintenance of equipment, stormwater systems, cover systems, liner and leachate collection and removal systems, groundwater monitoring system, and the prevention of erosion and ponded water in disposal areas.

b. In the event of damage to any portion of the landfill site facilities, failure of any portion of the landfill systems, fire, explosion, or the development of sinkhole(s) at the site, the permittee shall **immediately (within 24 hours)** notify the Department explaining such occurrence and remedial measures to be taken and time needed for repairs. Written, detailed notification shall be submitted to the Department **within seven (7) days** following the occurrence.

c. In the event that any portion of the groundwater monitoring system is damaged, a plan for corrective action shall be submitted in accordance with Specific Condition #27.b. Corrective actions which include relocation or installation of new groundwater monitoring wells shall be in accordance with Specific Condition #20, above, or as otherwise approved by the Department.

d. In the event that the stormwater system is damaged or is not operating effectively, corrective actions shall be implemented **within thirty (30) days** of the written notification specified in Specific Condition #27.b., unless otherwise approved by the Department.

28. **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.

SPECIFIC CONDITIONS:

29. **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.

30. **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, including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.

31. **Regulations.** Chapter 62-701, F.A.C., effective May 27, 2001, 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.

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

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Deborah A. Getzoff
District Director
Southwest District

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ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
4	180 days prior to permit renewal	Submit permit renewal application
5.a.	Within 72 hours of discovery Within 7 days of verbal notification	Notification of limestone occurrence Written notification
5.b., 27.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of: sinkholes, hazardous waste receipt, failure of landfill systems or equipment Written notification
6	30 days prior to initiation of construction	Submit: complete plans, specs., CQAP, calculations, revised or new drawings, org. chart, dewatering plan.
7	1 week prior Within 2 weeks of meeting	Notification of pre-construction meeting Submit minutes of meeting
8.a.	1 week after preconstruction meeting	Submit construction schedule
8.b.	Monthly	Submit construction progress reports
15., 16,	Within 60 days of completion of construction and prior to operation	Submit: Certification of Construction Completion, narrative describing deviations from plans, record drawings/documents, as-built surveys, interface friction testing results, leak detection report, LCS videotape/cleaning report, piezometer abandonment documentation
18	Prior to initiation of construction	Abandon P-3S and P-3D.
20.b.	Within 90 days of well installation	Submit monitor well completion report
20.c.	Within 1 week of well completion and development	Sample well
20.d.	Within 90 days of well installation	Submit survey showing location of well
27.d.	Within 30 days of written notification	Implement corrective actions for stormwater management system

Florida Department of

Memorandum — Environmental Protection

TO: Susan Pelz, P.E.
FROM: John R. Morris, P.G. JRM
DATE: May 21, 2004
SUBJECT: Southeast County Landfill, Class I Landfill Expansion (Section 8) Permit Application
Pending Construction Permit No. 35435-009-SC, Hillsborough County
Hydrogeologic and Environmental Monitoring Review Comments

I have reviewed the materials received April 23, 2004 which were submitted in response to the Department's letter dated March 10, 2004 requesting additional information regarding the referenced application for the Southeast County Landfill, Class I Landfill Expansion (Section 8). My review focused on the hydrogeologic and environmental monitoring aspects of the permit application.

As noted in my previous review comments memorandum dated March 5, 2004, Section M of the *Engineering Report* indicated that Hillsborough County was not seeking to update the existing monitoring plan at this time as part of the construction permit application. It was indicated that changes to the monitoring plan would be submitted to the Department as part of a future operation permit modification application to be submitted for Section 8. As such, review comment Nos. 7 through 10 and comment No. 12 were provided as a courtesy for informational purposes and did not require responses.

The review comments are referenced to sections of the permit application and supporting documents, and the comment numbers are consistent with my March 5, 2004 memorandum, as presented below:

Part A – General Information

1. **A.4.** – DEP ID Number. Revisions to this item on page 4 of the application form were submitted in Attachment 3. It is noted that an incorrect WACS identification number was provided on the revised application form. It is intended that the file copy of the permit application with be notated with the correct WACS identification number (SWD/29/41193) and that this number will be listed on the permit cover page. **No additional information is requested.**

2. **A.7.** – Location Coordinates. Revisions to this item on page 4 of the application form were submitted in Attachment 3 to provide the latitude and longitude coordinates of the administration building at the facility. **No additional information is requested.**

Part B – Disposal Facility General Information

3. **B.13.** – Property Recorded as a Disposal Site in County Land Records. Revisions to this item on page 7 of the application form were submitted in Attachment 3 to indicate the property has not been recorded as a disposal site in the County Land Records. **No additional information is requested.**

4. **B.18.** – Number of Monitoring Wells. Revisions to this item on page 7 of the application form were submitted in Attachment 3 to indicate two new monitor wells are proposed. It is noted that while this revision to the application form is consistent with the information provided in Section M of the *Engineering Report*, an additional well or wells may be required. However, as the changes to the monitoring plan are not being requested as part of the construction permit application, the technical review of the appropriate number, location and construction of new monitor wells for Section 8 will be addressed when the operating permit modification application is submitted. **No additional information is requested.**

Part I – Hydrogeological Investigation Requirements (Rule 62-701.410(1), F.A.C.)

5. **I.1.d.** – On-site Hydraulic Connection Between Aquifers. Revisions to Section I of the *Engineering Report* were submitted in Attachment 13 to present new cross sections for Section 8 to demonstrate the occurrence of confining unit materials. **No additional information is requested.**

6. **I.1.f.** – Description of Topography, Soil Types and Surface Water Drainage Systems. The response indicated that no changes to Section I of the *Engineering Report* were needed as the site plans and technical specifications provided preventative measures to reduce the turbidity of stormwater associated with the construction of Section 8. **No additional information is requested.**

Part M – Water Quality and Leachate Monitoring Requirements (Rule 62-701.510, F.A.C.)

7. **M.1.c.1.** – Detection Wells. The response acknowledged the review comment and indicated that the monitoring plan would be revised when the operating permit is modified. **No additional information is requested.**

8. **M.1.c.3 –** Background Wells. The response acknowledged the review comment and indicated that the surficial aquifer background well for Section 8 will be well TH-36A. **No additional information is requested.**

9. **M.1.c.5** – Well Spacing. The response acknowledged the review comment. **No additional information is requested.**

10. **M.1.c.6** – Well Screens. The response acknowledged the review comment. **No additional information is requested.**

11. **M.1.c.7** – Abandoning Wells. Revisions to Section M of the *Engineering Report* were submitted in Attachment 14 to indicate that existing piezometers P-3S and P-3D will be abandoned prior to commencement of construction activities at Section 8 and that documentation of piezometer abandonment will be provided to the Department. **No additional information is requested.**

12. **M.1.f.1 –** Initial Background Groundwater and Surface Water Sampling. The response acknowledged the review comment. **No additional information is requested.**

13. **M.1.f.2** – Routine Leachate Sampling and Analysis. Revisions to Section M of the *Engineering Report* were submitted in Attachment 14 to indicate that leachate sampling shall be conducted at an annual frequency. **No additional information is requested.**

Complete responses were provided to review comment Nos. 1 through 13 as requested in my previous memorandum dated March 5, 2004. The submitted revisions appear to provide sufficient information to address the hydrogeologic and monitoring requirements of Rule 62-701.510, F.A.C.

jrm

COMMISSION
Kathy Castor
Pat Frank
Kan Hajam
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Jan K. Platt
Thomas Scott
Ronda Storms

ENVIRONMENTAL PROTECTION COMMISSION
HILLSBOROUGH COUNTY

Administrative Offices,
Legal & Water Management Division
The Roger P. Stewart Environmental Center
1900 - 9th Ave. • Tampa, FL 33605
Ph. (813) 272-5960 • Fax (813) 272-5157
Air Management Fax 272-5605
Waste Management Fax 276-2256
Wetlands Management Fax 272-7144
1410 N. 21st Street • Tampa, FL 33605

Executive Director
Richard D. Garrity, Ph.D.

MEMORANDUM

Date: May 17, 2004

To: Susan J. Pelz, P.E., FDEP Solid Waste Section

From: Ronald A. Cope, CHMM, General Manager, Solid & Hazardous Waste Section

RE: CONSTRUCTION PERMIT APPLICATION. SECTION 8, SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY.

The Environmental Protection Commission (Commission) is in receipt of and staff have reviewed the applicant's response to the Department's March 10, 2004, request for additional information. The response was received by the Commission on APR 26, 2004.

Based on the additional information provided by the applicant, the Commission has no additional comments and has no objection to the Department's approval of the Section 8 construction permit.

If you have questions, comments or concerns or feel that a meeting with the applicant is in order, please contact me at (813) 272-5955, extension 1292, or via e-mail at copew@epchc.org.

FILE

Environmental Consultants

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

813 621-0080
FAX 813 623-6757

SCS ENGINEERS

April 23, 2004
File No. 09200020.34

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

Subject: Section 8, SCLF Capacity Expansion, Hillsborough County
Pending Permit No.: 35435-009-SC, Construction
FDEP Responses

Dear Mr. Ford:

On behalf of the Hillsborough County Solid Waste Management Department (SWMD), SCS Engineers (SCS) submits four copies of the following responses to your request for additional information in a letter dated March 10, 2004. For ease of review, each Florida Department of Environmental Protection (FDEP) comment is reiterated in bold type, followed by our response. We are submitting four copies as requested of all information.

We have provided additional information and replacement pages attached to this letter, using a ~~strikethrough~~ and underline format, to facilitate review. We have included the revision date as part of the header/footer for all revised pages and provided an original and three copies of all revised materials.

As requested we are providing a summary of all revisions to drawings, indicating the revision on each of the applicable plan sheets. We have used a consistent numbering system for drawings. Any new sheets added to the original plan set use the same numbering system with a prefix or suffix to indicate the sheet was an addition, e.g. Sheet 1A, 1B, P1-A, etc.

Although some comments did not explicitly request additional information, the intent of all responses was to present revised documents (such as calculations, narrative, technical specifications, QA documentation, plan sheets, etc.), clarification to the item, and/or other information as appropriate. All calculations were signed and sealed by the registered professional engineer (or geologist as appropriate) who prepared them.

This pending permit application is limited to the construction of Section 8. All other information not specifically required or related to the construction of Section 8 is not the subject of these responses nor a part of this pending permit application. General comments regarding other aspects of the facility development (such as details related to operation and closure) may be provided for information only.

See Bound Report

Attachment 1 presents replacement inserts for the permit application binder and Attachment 2 is a new cover page and Table of Contents.

SPECIFIC COMMENTS:

The following information requests have been referenced to the permit application form [DEP Form #62-710.900(1)] and related Department rules [Chapter 62-701, Florida Administrative Code (F.A.C.)], and are needed in support of the pending solid waste management facility application:

1. **Parts A and B:**

   a) **A.1. This facility is a landfill therefore "Non-Disposal" activities should not be included. Please revise the application form as appropriate.**

      Response: The application form was revised. A replacement Application page number 4 is included in Attachment 3.

   b) **A.5. The correct DEP ID number for the facility is SWD/29/40501. Please revise the application form as appropriate.**

      Response: The application form was revised. A replacement Application page number 4 is included in Attachment 3.

   c) **B.8. Other waste is indicated for disposal however no description was provided. Please revise the application form as appropriate.**

      Response: The application form was revised. A replacement Application page number 6 is included in Attachment 3.

   d) **B.20. Please reference proposed gas controls for the "Capacity Expansion" landfill. Please revise the application form as appropriate.**

      Response: No gas controls are proposed for the Capacity Expansion. The application form was revised and a replacement Application page number 7 is included in Attachment 3.

   e) **B.25. Leachate is pumped to the on-site treatment facility, and evaporated by spray irrigation or pond evaporation after treatment. Please revise the application form as appropriate.**

RECEIVED
APR 23 2004
Department of Environmental Protection
BY SOUTHWEST DISTRICT

Response: The application form was revised. A replacement Application page number 8 is included in Attachment 3.

2. **Part D. (prohibitions, Rule 62-701.300, F.A.C.): Confirmation with related descriptions are required for each new landfill expansion to demonstrate the continued compliance with each of the siting criteria listed in Rule 62-701.300(2), F.A.C. Please provide explanations with documentation that demonstrate that each of these prohibitions will not be violated by the construction and subsequent operation of the proposed expansion. Please revise Section D.1 as appropriate.**

Response: Section D.1 was revised as requested. A replacement Section D is included in Attachment 4.

3. **Part E. (Rule 62-701.320, F.A.C.):**

a) **E.2 (Rule 62-701.320(6), F.A.C.) - Please confirm that the engineer of record, or another qualified professional working under the supervision of the engineer of record, will make periodic inspections during construction.**

Response: Confirmed, Section E.2 was revised. Replacement pages for Section E are presented in Attachment 5.

b) **E.9.d. (Rule 62-701.320(7)(f), F.A.C.) – Related comments are provided in item 4. of this letter.**

Response: Acknowledged.

c) **E.13. (Rule 62-701.320(8)(a), F.A.C.) - Please publish the attached Notice of Application, and provide proof of publication.**

Response: The notice was published in the Tampa Tribune on March 22, 2004. The proof of publication was sent to the FDEP by the SWMD in a letter dated March 24, 2004. Proof of publication is presented in Attachment 6.

d) **E.13 (Rule 62-701.320(8)(b), F.A.C.) - Please mail a notice of application in accordance with Rule 62-701.320(8)(b), F.A.C., and provide proof of mailing.**

Response: A notice of application for construction was mailed to the Chair of the Board of County Commissioners and each State Senator and

Representative serving the jurisdiction on April 8, 2004. Proof of this mailing is presented in Attachment 7.

4. Part F. (Rule 62-701.330, F.A.C.). The following comments are related to the drawings provided for the construction of Section 8:

a) **F.3. (Rule 62-701.330(3)(c), F.A.C.) – Please provide a drawing (possibly an aerial photograph) of the Capacity Expansion area with the locations of all soil borings (especially those within Section 8), the limits of each disposal unit, the proposed final contours (after total expansion buildout), and conceptual closure details with the locations of gas vents.**

Response: Soil borings in the area of Section 8 and the limits of each disposal unit within the Capacity Expansion Area can be seen on the drawing presented in Attachment 8. Proposed final contours (after total expansion build out) were included with the Operation Permit for Section 7 Capacity Expansion Record Drawings for Section 7 submitted with the Certification of Construction Completion for Section 7, Drawing 12 of 22. Conceptual closure for Section 8 can be seen on Drawing 10 of 22. A detailed filling sequence and final contouring will be presented with the Operation Permit Application. No landfill gas (LFG) vents are proposed at this time. Prior to final closure, Section 8 will have a pervious soil intermediate cover. The pervious cover will allow for LFG generated by the decomposing waste to escape to the atmosphere without accumulating within the landfill.

b) **Sheet 3: Please show the locations of all soil borings within Section 8. If there are none along the north, east and west portions of Section 8, then others may be required.**

Response: See Item 4.a), above. The geology and hydrogeology for the site has been addressed by several geotechnical studies of the site. The number of wells that have been conducted on-site are sufficient to establish the geological and hydrogeological characteristics of the site.

c) **Sheet 4: Please provide a cross-section oriented east–west along the boundary between Sections 7/8 (where both connect), and show all excavation limits and liner system components on the cross-section.**

Response: Section B on Drawing 7 of 9 in Attachment 9 shows the previous limits of excavation for Section 7. Detail 1 on Drawing 9 of 9 shows the

existing and new liner system components.

d) **Sheet 7: Please identify the bottom limits of the phosphatic clay on each cross-section and add notes describing the intended purpose of this excavation. Borings that are not within the vicinity of Section 8 appear to be irrelevant and should be deleted from this drawing.**

Response: Estimated limits of waste clay can be seen on new Figures I-2 and I-3 in Attachment 13, which present geologic cross sections prepared for Section 8 from soil borings. Borings shown that are not within the limits of Section 8 were relevant to the cross sections and will not be deleted. Soil borings are shown on the Drawing presented in Attachment 8. The purpose of excavation is to remove all unsuitable soils as is described in Section 02220 of the Specifications. Revised Drawings are presented in Attachment 9.

e) **Sheet 8: Please show all liner system components on Detail 5 and add a note to describe the purpose of the 8 inch tee.**

Response: The detail was revised. A replacement drawing is presented in Attachment 9.

f) **Sheet 9: Please show all liner system connections on an expanded detail to include minimum overlap for each component and add notes to describe all construction procedures for all connections at all locations (including between Section 7 and Section 8 along the east and west berms).**

Response: Minimum overlap for geomembrane panels is noted in the Technical Specification 02776 – HDPE Geomembrane Liner, Part 3.03D. Minimum overlap for components of geocomposites is noted in 02930 – Geocomposite, Table 02930-4. Construction procedures include removing the sacrificial protective geotextile, and tie in the new liner system to the existing liner system by electrofusion of geomembranes and tie in of geocomposites as noted in the specifications and as shown on the Drawings.

5. **Part H (construction requirements, Rule 62-701.400, F.A.C.):**

a) **H.2.a.(2) (Rule 62-701.400(3)(a)2., F.A.C.) – Related comments are provided in item 7 of this letter.**

Response: Acknowledged.

b) **H.2.c.(2) and (4). Please confirm that the referenced calculations are still valid for the completion of Section 8 after total expansion buildout. To ensure adequate performance, calculations must be based on conservative values for waste density under the maximum height of the landfill after total expansion buildout.**

Response: The referenced HELP model calculations of March 2000 were updated in order to consider the intermediate 4:1 side slopes of Sections 7 and 8 and to update the construction of Section 8 with a newer, triplanar geocomposite to limit head over liner to no more than the thickness of the geocomposite. Calculations for Section 8 were completed and were included as Attachment H-2. Maximum waste depth at the final buildout of Section 8 was estimated at 152 feet from the Record Drawings of the SCLF Capacity Expansion, for Section 7 (original submittal to FDEP, March 16, 2000; revised May 17, 2000 and July 14, 2000; construction set submittal, April 27, 2001). The waste density of 1,357 pounds per cubic yard (lb/cy) used in the calculations was the actual density of waste at the SCLF, averaged over the last three years. The calculations submitted as Attachment H-2 show that the leachate head over liner does not exceed the thickness of the geonet. Additional HELP modeling using the upgraded triplanar geocomposite and the maximum waste depth at final buildout of the Capacity Expansion was also completed. The model at final buildout also provides head over liner as less than the thickness of the geocomposite. The actual average waste density of 1,357 lb/cy was again used in the additional modeling. A new Attachment (Attachment H-2A) was created to include the additional HELP model calculations. The additional attachment to the permit application is presented in Attachment 10. Sections H.2.c. (2) and (4) were revised. Replacement pages for Section H are included in Attachment 11.

c) **H.2.d., e., f. Please provide the specific reference to each subsection in each project specification (and in the CQA Plan when appropriate) to demonstrate compliance with each applicable requirement of these related rules (Rules 62-701.400(3)(d), (e), and (f), F.A.C.).**

Response: Standards for geosynthetics are addressed in Technical Specifications included as Attachment H-1. The geomembrane specification is 02776-HDPE Geomembrane Liner. Specific references to the requirements of Rule 62-701.400 (3)(d) follow:

1. Seaming is addressed in the technical specifications, 02776 - HDPE-Geomembrane Liner, Part 3.03. Visual inspection and testing is addressed in the Construction Quality Assurance (CQA) manual (Exhibit

A to the Technical Specifications), Sections 6.1.8 and 6.1.9.

2. The manufacturer of geomembrane for Section 7 of the Capacity Expansion Area was GSE Lining Technology, Inc. (GSE). GSE's Manufacturer Quality Control Manual addressed geomembrane testing for defects at the factory. It will be required of the manufacturer of geomembrane for Section 8 that geomembranes are tested for defects at the factory.

3. Protection of geomembranes by protective cover soil is shown on the Drawings and is described in the technical specifications, 02220-Excavation, Backfill, Fill and Grading, Section 3.06.

4. As was done at Section 7 of the Capacity Expansion Area, the first layer of waste, a minimum of four feet in thickness will consist of selected wastes that will not damage the liner or leachate collection system and this condition is included in the Operation Plan.

5. The geomembrane material as specified in 02776-HDPE Geomembrane Liner meet the requirements of GRI GM13.

6. Polyvinyl chloride geomembranes are not specified for use on this project.

7. Interface shear strength testing is specified in 02930-Geocomposite, Part 1.03 B. 11 and 12, and technical specifications 02221 – Sub-base, Part 1.03 C.4.g., and 02776 – HDPE Geomembrane Liner, Part 2.02.

8. Transmissivity of geocomposites is specified in 02930-Geocomposite, Table 02930-3.

9. Geosynthetic clay liners are not specified for use on this project.

10. Interface shear strength and transmissivity testing is required during construction as noted in the technical specifications, above. The results of the testing will be included in the construction completion documentation.

Specific references to the requirements of Rule 62-701.400 (3)(e) follow:

1. Definition and qualifications of the designer, manufacturer, installer, geosynthetics quality assurance consultant, geosynthetics quality assurance laboratory and quality assurance program are described in the CQA Manual, Sections 2 and 3.

2. Material specifications for 60-mil smooth geomembranes are listed in the technical specifications, Table 02776-1. For 60-mil textured geomembranes, material specifications are listed in Table 02776-2. General requirements for geomembranes including delivery, storage and handling are contained in technical specifications, 02776- HDPE Geomembrane Liner, Part 3. Specifications for geocomposites include geonet properties in Table 02930-1, geotextile properties in Table 02930-2 and geocomposite properties in Table 02930-3.

3. Specifications for the manufacturing of geomembrane are described by 02776 – HDPE Geomembrane Liner, Part 1.03. The Contractor is required to submit manufacturer qualification, geomembrane resin information, quality control certificates, and fabricator's qualification by 02776 Part 1.04. Geomembrane seams and seam testing are described in 02776 Parts 3.03 and 3.04 and in the CQA Plan, Section 6.1.8 and 6.1.9. Geomembrane repairs are described in technical specifications, 02776 and the CQA Plan, Section 6.1.10.

4. Sub-base installation for geomembrane is addressed in the technical specifications, 02776 – HDPE Geomembrane Liner, Part 3.02 and in the CQA Plan, Section 6.1.3. Geomembrane installation and placement is addressed in 02776 – HDPE Geomembrane Liner, Part 3.03 and in the CQA Plan, Section 6.1. Conformance testing for geomembranes is described in the CQA Plan, Section 6.1.2.2. Field seaming of geomembranes is described in the CQA Plan, Section 6.1.8, which includes personnel requirements, seam layout, seaming methods, seam preparation, weather conditions and general procedures. Field seaming is addressed in 02776 – HDPE Geomembrane Liner, Part 3.03, however, field seaming is more fully described by the geosynthetics installer in their qualifications package, which is required by 02776 – HDPE Geomembrane Liner, Part 1.03 C. Installation specifications addressing materials in contact with the geomembrane are included in technical specifications, 02221 – Sub-base, 02930 – Geocomposite, and in the

CQA Plan, Section 6.1 and 6.3. Lining system acceptance is described in the CQA Plan, Section 7.6

5. Geotextile specifications including protection and storage, handling and placement, conformance testing, seams and overlaps, repair and placement of soil materials and overlying materials are addressed in the technical specifications, 02940 – Geotextile, and the CQA Plan, Section 6.2.

6. The technical specification for geocomposites is 02930 – Geocomposite. Protection and storage, handling and placement, and stacking is described in Part 1.03. Field joining is described in Parts 3.02, 3.05, 3.06, and Table 02930-4. Geocomposite repair is addressed in Part 3.08. Placement of protective cover soil is addressed in the technical specifications, 02220 – Excavation, Backfill, Fill and Grading. Geocomposites, including conformance sampling, are also addressed in the CQA Plan, Section 6.3.

7. Geosynthetic clay liner is not specified for use on this project.

Specific references to the requirements of Rule 62-701.400 (3)(f) follow:

1. Technical specification, 02221 – Sub-base, Part 3.01 describes the select backfill preparation required prior to installation of the sub-base. Technical specification, 02220 – Excavation, Backfill, Fill and Grading, Part 3.01 A.5, describes over excavation of unsuitable soils. The permit drawings for Section 8 drawing 3 of 9, presents soil borings and notes regarding over excavation. Placement of subgrade including compaction is described in 02220 Part 3.04. Placement of sub-base including compaction and repair is described in 02221, Part 3.03 and 3.04.

2. Laboratory hydraulic conductivity testing with water and with leachate is addressed in technical specification 02221 – Sub-base, Part 3.05.

3. Soil materials are addressed in the CQA Plan Section 5. Sampling and testing will be conducted in the field by a trained CQA consultant who will be on site at all times during construction to monitor construction activities.

4. Testing and properties of sub-base are presented in technical specification 02221 – Sub-base, Table 02221-1.

5. Construction of a test section of the sub-base is described in technical specification 02221 – Sub-base, Part 3.02. Test results will be submitted to the FDEP as part of the construction completion certification.

d) **H.3.a.(2), and b.(3) and (4). Please confirm that the referenced calculations are still valid for the completion of Section 8 after total expansion buildout. To ensure adequate performance, calculations must be based on conservative values for waste density under the maximum height of the landfill after total expansion buildout.**

Response: See Item 5(b) above. Section H.3 was revised. Replacement pages for Section H are included in Attachment 11.

e) **H.6. and 7. Please provide the specific reference to each subsection in each project specification (and in the CQA Plan when appropriate) to demonstrate compliance with each applicable requirement of these related rules (Rules 62-701.400(7) and (8), F.A.C.).**

Response: The Construction Quality Assurance Plan for Geosynthetic Liner Systems is presented as Exhibit A to the Technical Specifications included as Attachment H-1.

Specific references to the requirements of Rule 62-701.400 (7)(b) within the CQA plan follow:

1. Qualified parties and responsibilities are addressed in Section 3.

2. Minimum qualifications of the construction assurance quality professional engineer and supporting personnel are addressed in Section 3.

3. Procedures and tests that will be used to monitor the installation of the liner system components are addressed in Section 5 for Earth Materials and Section 6 for Geosynthetic Materials.

4. Sampling activities, sizes, locations; frequency of testing, acceptance and rejection criteria, and defects and repairs are addressed in Section 5 for Earth Materials and Section 6 for Geosynthetic Materials.

5. Progress reports are addressed in Section 7. Forms for use on the project including daily report forms and observation placement logs are included at the end of the CQA Plan. Logs are completed during construction and will be included in the final report to the FDEP.

f) **Specifications: Related comments are provided in items 6.c) and e) of this letter. The Specifications will be reviewed in their entirety upon receipt of the related information.**

Response: Acknowledged.

g) **CQA Plan: Related comments are provided in items 6.c) and e) of this letter. The CQA Plan will be reviewed in its entirety upon receipt of the related information.**

Response: Acknowledged.

h) **Help model: Please describe the HELP model results as related to the reportable "leakage rate allowed" as described in Attachment H-2.**

Response: In one HELP model scenario, when the cell is open, i.e., zero waste height, it is calculated that the leak detection system will experience 50.9 gpda (Attachment 3, page 5/6 within Attachment H-2). In a second HELP model scenario with the maximum waste height of 152 feet for Section 8, it is calculated that the leak detection system will experience 44.9 gpda (Attachment 4, page 7/8 within Attachment H-2.

6. Part I (Rule 62-701.410(1), F.A.C.): Related comments are provided in Mr. John Morris's March 5, 2004 memorandum (attached).

Response: Responses are presented in Attachment 12.

7. Part J (Rule 62-701.410(2), F.A.C.): Please confirm that the referenced calculations are still valid for the completion of Section 8 after total expansion buildout. To ensure adequate performance, calculations must be based on conservative values for waste density under the maximum height of the landfill after total expansion buildout. All related calculations must be based on conservative values and should confirm factors of safety greater than 1.5. Please provide the specific reference to each calculation required to demonstrate compliance with each applicable requirement of Rule 62-701.410(2)(e), F.A.C..

Response: The foundation analysis as required by Rule 62-701.410(2)(e), included with the March 2000 Construction Permit Application for Section 7 is still valid. The calculations were developed for full development of the entire 147 acres to a peak elevation of 307 feet NGVD. The calculations were done using site specific conservative values with safety factors ranging from 1.3 to 1.8, which are reasonable for this site.

8. Part M (Rule 62-701.510, F.A.C.): Related comments are provided in Mr. John Morris's March 5, 2004 memorandum (attached).

Response: Responses are presented in Attachment 12.

9. Parts O, P, Q: Detailed descriptions and drawings related to the closure of Section 8 will be required as part of a closure permit.

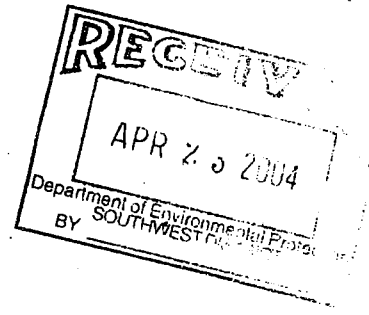
Response: Acknowledged.

Please call if you have any questions.

Sincerely,

Larry E. Ruiz, Assoc., AIA
Project Manager

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



LER/RJD:scv

cc: Susan Pelz, P.E., FDEP Tampa
Ron Cope, EPCHC
Patricia Berry, HCSWMD

Attachments

BOARD OF COUNTY COMMISSIONERS
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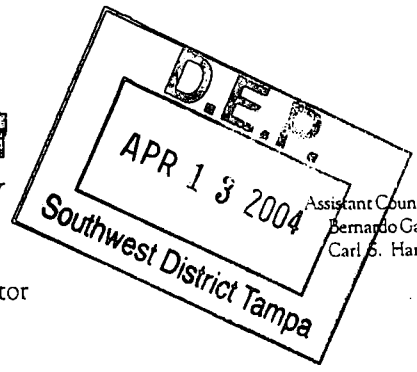

April 8, 2004

The Honorable Tom Lee
10th District State Senate
P O Box 2743
Brandon, Florida 33509

RE: Notice of Application for Construction – Southeast County Landfill Capacity Expansion

Dear Mr. Lee:

In Accordance with the State of Florida Department of Environmental Protection (FDEP) Rule 62-701.320, the Solid Waste Management Department is required to notify the highest ranking elected official and each State Senator and Representative serving the jurisdiction in which the project is located.

Attached is the Notice of Application for the Construction Permit for the Southeast County Landfill Capacity Expansion (Section 8). If you have questions concerning the Notice of Application, you may contact Ms. Patricia V. Berry at (813) 276-2908.

Sincerely,

Daryl H. Smith, Director
Solid Waste Management Department

Attachment

xc: Kim Ford, FDEP
Ron Cope, HCEPC
Larry Ruiz, SCS Engineers
Patricia V. Berry, SWMD

NoticeAppltr

State of Florida
Department of Environmental Protection
Notice of Application

The Department announces receipt of a permit application from Hillsborough County Solid Waste Management Department, c/o Daryl Smith, for the construction of Class I Landfill disposal unit (Section 8) an expansion of the existing Southeast County Landfill Capacity Expansion, located approximately 9 miles east of U. S. 301 on County Road 672, 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.

D.E.P.
APR 1 3 2004
Southwest District Tampa

BOARD OF COUNTY COMMISSIONERS
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Thomas Scott
Ronda Storms

Hillsborough County
Florida

Office of the County Administrator
Patricia G. Bean

Assistant County Administrators
Bernardo Garcia
Carl S. Harness

April 8, 2004

Commissioner Thomas Scott, Chairman
Hillsborough County Board of County Commissioners
P O Box 1110
Tampa, Florida 33601

RE: Notice of Application for Construction – Southeast County Landfill Capacity Expansion

Dear Commissioner Scott :

In Accordance with the State of Florida Department of Environmental Protection (FDEP) Rule 62-701.320, the Solid Waste Management Department is required to notify the highest ranking elected official and each State Senator and Representative serving the jurisdiction in which the project is located.

Attached is the Notice of Application for the Construction Permit for the Southeast County Landfill Capacity Expansion (Section 8). If you have questions concerning the Notice of Application, you may contact Ms. Patricia V. Berry at (813) 276-2908.

Sincerely,

Daryl H. Smith, Director
Solid Waste Management Department

Attachment

xc: Kim Ford, FDEP
Ron Cope, HCEPC
Larry Ruiz, SCS Engineers
Patricia V. Berry, SWMD

NoticeAppltr

State of Florida
Department of Environmental Protection
Notice of Application

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FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
APR 1 3 2004
SOUTHWEST DISTRICT
TAMPA

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Patricia G. Bean
April 8, 2004

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Carl S. Harness

The Honorable Dennis Ross
63rd District
House of Representative
4416 Florida National Drive
Lakeland, Florida 33813-1515

RE: Notice of Application for Construction – Southeast County Landfill Capacity Expansion

Dear Mr. Ross:

In Accordance with the State of Florida Department of Environmental Protection (FDEP) Rule 62-701.320, the Solid Waste Management Department is required to notify the highest ranking elected official and each State Senator and Representative serving the jurisdiction in which the project is located.

Attached is the Notice of Application for the Construction Permit for the Southeast County Landfill Capacity Expansion (Section 8). If you have questions concerning the Notice of Application, you may contact Ms. Patricia V. Berry at (813) 276-2908.

Sincerely,

Daryl H. Smith, Director
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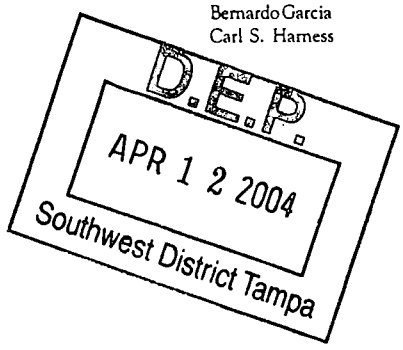

The Honorable Dennis Ross
63rd District
House of Representative
4416 Florida National Drive
Lakeland, Florida 33813-1515

RE: Notice of Application for Operation – Southeast County Landfill Capacity Expansion

Dear Mr. Ross:

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Sincerely,

Daryl H. Smith, Director
Solid Waste Management Department

Attachment

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Florida

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Patricia G. Bean

Assistant County Administrators
Bernardo Garcia
Carl S. Harness

April 8, 2004

The Honorable Tom Lee
10th District State Senate
P O Box 2743
Brandon, Florida 33509

RE: Notice of Application for Operation – Southeast County Landfill Capacity Expansion

Dear Mr. Lee:

In Accordance with the State of Florida Department of Environmental Protection (FDEP) Rule 62-701.320, the Solid Waste Management Department is required to notify the highest ranking elected official and each State Senator and Representative serving the jurisdiction in which the project is located.

Attached is the Notice of Application for the Operation Permit for the Southeast County Landfill Capacity Expansion (Section 8). If you have questions concerning the Notice of Application, you may contact Ms. Patricia V. Berry at (813) 276-2908.

Sincerely,

Daryl H. Smith, Director
Solid Waste Management Department

Attachment

xc: Kim Ford, FDEP
Ron Cope, HCEPC
Larry Ruiz, SCS Engineers
Patricia V. Berry, SWMD

NoticeAppltr

State of Florida
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Notice of Application

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April 8, 2004

Commissioner Thomas Scott, Chairman
Hillsborough County Board of County Commissioners
P O Box 1110
Tampa, Florida 33601

RE: Notice of Application for Operation – Southeast County Landfill Capacity Expansion

Dear Commissioner Scott:

In Accordance with the State of Florida Department of Environmental Protection (FDEP) Rule 62-701.320, the Solid Waste Management Department is required to notify the highest ranking elected official and each State Senator and Representative serving the jurisdiction in which the project is located.

Attached is the Notice of Application for the Operation Permit for the Southeast County Landfill Capacity Expansion (Section 8). If you have questions concerning the Notice of Application, you may contact Ms. Patricia V. Berry at (813) 276-2908.

Sincerely,

Daryl H. Smith, Director
Solid Waste Management Department

Attachment

xc: Kim Ford, FDEP
Ron Cope, HCEPC
Larry Ruiz, SCS Engineers
Patricia V. Berry, SWMD

NoticeAppltr

State of Florida
Department of Environmental Protection
Notice of Application

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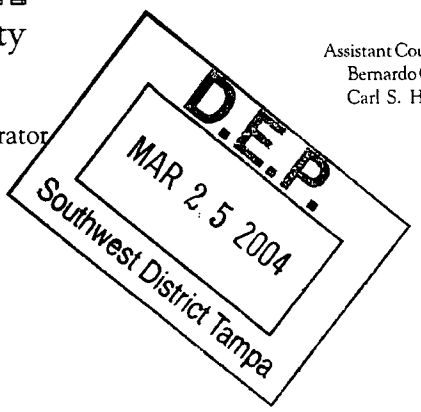

March 24, 2004

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

RE: Southeast County Landfill Section 8 Construction Application - Legal Advertisement Proof of Publication

Dear Mr. Ford:

In accordance with Rule 62-701.320 (8) (a) and (b), 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) Public Notice of Application for construction of Section 8 of the Southeast County Landfill capacity expansion.

The proof of publication was provided to the SWMD by the Tampa Tribune on March 23, 2004 and the ad ran on March 22, 2004.

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: Daryl H. Smith, SWMD
Larry Ruiz, SCS
Paul Schipfer, EPC

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

MAR 2 5 2004

SOUTHWEST DISTRICT
TAMPA

THE TAMPA TRIBUNE

Published Daily

Tampa, Hillsborough County, Florida

State of Florida }
County of Hillsborough } ss.

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

LEGAL NOTICE PINELLAS EDITION

in the matter of XH STATE OF FLORIDA

was published in said newspaper in the issues of

MARCH 22, 2004

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.

C Pugh

Sworn to and subscribed by me, this 22 day of MARCH, A.D. 20 04

Personally Known ✓ or Produced Identification ____
Type of Identification Produced ____

Susie Lee Slaton

NOTARY PUBLIC STATE OF FLORIDA
OFFICIAL NOTARY SEAL
SUSIE LEE SLATON
COMMISSION NUMBER
DD000060
MY COMMISSION EXP.
APRIL 16, 2005

XH State of Florida Department of Environmental Protection Notice of Application

The Department announces receipt of a permit application from Hillsborough County Solid Waste Management Department, o/o Daryl Smith, for the construction of Class I Landfill disposal unit (Section 8) an expansion of the existing Southeast County Landfill Capacity Expansion, located approximately 9 miles east of U.S. 301 on County Road 672, Hillsborough County, Florida.

This application is being processed and is available for public inspection during normal business hours, 8:00 am, 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

4836 3/22/04

Department of Environmental Protection

Jeb Bush
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

David B. Struhs
Secretary

Mr. Daryl Smith, Director
Hillsborough County Solid Waste
P.O. Box 1110
Tampa, Fl. 33601

March 11, 2004

RE: Southeast County Landfill Section 7 and 8 Expansion, Hillsborough County
Financial Assurance Cost Estimates
Permit No.: 35435-007-SO (Section 7 Expansion)
Pending Permit No.: 35435-009-SO (Section 8 Expansion)

Dear Mr. Smith:

This letter is to acknowledge receipt of the revised cost estimates dated January 19, 2004 (received February 9, 2004), prepared by SCS Engineers for closure and long-term care of the Southeast County Landfill Section 7 and 8 Expansion. The revised cost estimates received February 9, 2004 (total for closing $2,360,000.00 and long-term care $153,000.00/year x 30 years= $4,590,000.00), are **APPROVED for 2004**. Please note that these estimates are acceptable for the 19.3 acres Section 7 and 8 expansion only. The next annual update (revised or inflation-adjusted estimates) is due no later than September 1, 2004.

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

Sincerely,

Steven G. Morgan
Solid Waste Section
Southwest District

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

Department of Environmental Protection

Jeb Bush
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

David B. Struhs
Secretary

March 10, 2004

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

RE: Section 8, SCLF Capacity Expansion, Hillsborough County
Pending Permit No.: 35435-009-SC, Construction

Dear Mr. Smith:

This is to acknowledge receipt of your permit application and supporting information, dated February 4, 2004 (received February 9, 2004) to construct a lateral expansion of the existing Class I landfill, referred to as the Section 8, SCLF Capacity Expansion, Hillsborough County, Florida.

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

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

GENERAL COMMENTS:

Due to magnitude of the proposed project, the requested information and comments below do not repeat the information submitted by the applicant. However, every effort has been made to concisely refer to the section, drawing detail number, etc. where the information has been presented in the original submittal.

Please submit **4 copies** of all requested information. Please provide references to revised text and specify if revised information is intended to supplement or replace previously submitted information. All replacement pages should be numbered and include the document title with the revision date as part of the header or footer on each revised page. Please submit all revised plans and reports as a complete package. To expedite the review process, on one set of revisions to the narrative reports, deletions may be struckthrough (~~struckthrough~~) and additions may be shaded (shaded) or similar notation method may be used.

Please provide a summary of all revisions to drawings, and indicate the revision on each of the applicable plan sheets. Please use a consistent numbering system for drawings. If new sheets must be added to the original plan set, please use the same numbering system with a prefix or suffix to indicate the sheet was an addition, e.g. Sheet 1A, 1B, P1-A, etc.

Please be advised that although some comments do not explicitly request additional information, the intent of all comments shall be to request revised documents (such as calculations, narrative, technical specifications, QA documentation, plan sheets, etc.), clarification to the item, and/or other information as appropriate. **Please be reminded that all calculations must be signed and sealed by the registered professional engineer (or geologist as appropriate) who prepared them.**

This pending permit application and Department review is limited to the construction of Section 8, therefore all other information not specifically required or related to the construction of Section 8 is not the subject this review or approval as part of this pending permit application. Please be advised that general comments regarding other aspects of the facility development (such as details related to operation and closure) are provided for information only and do not require a response as part of this pending permit application.

SPECIFIC COMMENTS:
The following information requests have been referenced to the permit application form [DEP Form #62-710.900(1)] and related Department rules [Chapter 62-701, Florida Administrative Code (F.A.C.)], and are needed in support of the pending solid waste management facility application:

1. **Parts A and B:**

a) A.1. This facility is a landfill therefore "Non-Disposal" activities should not be included. Please revise the application form as appropriate.

b) A.5. The correct DEP ID number for the facility is SWD/29/40501. Please revise the application form as appropriate.

c) B.8. Other waste is indicated for disposal however no description was provided. Please revise the application form as appropriate.

d) B.20. Please reference proposed gas controls for the "Capacity Expansion" landfill. Please revise the application form as appropriate.

e) B.25. Leachate is pumped to the on-site treatment facility, and evaporated by spray irrigation or pond evaporation after treatment. Please revise the application form as appropriate.

2. **Part D. (prohibitions, Rule 62-701.300, F.A.C.)**: Confirmation with related descriptions are required for each new landfill expansion to demonstrate the continued compliance with each of the siting criteria listed in Rule 62-701.300(2), F.A.C. Please provide explanations with documentation that demonstrate that each of these prohibitions will not be violated by the construction and subsequent operation of the proposed expansion. Please revise Section D.1 as appropriate.

3. **Part E. (Rule 62-701.320, F.A.C.):**

a) E.2 (Rule 62-701.320(6), F.A.C.) - Please confirm that the engineer of record, or another qualified professional working under the supervision of the engineer of record, will make periodic inspections during construction.

b) E.9.d. (Rule 62-701.320(7)(f), F.A.C.) - Related comments are provided in item 4. of this letter.

c) E.13. (Rule 62-701.320(8)(a), F.A.C.) - Please publish the attached Notice of Application, and provide proof of publication.

d) E.13 (Rule 62-701.320(8)(b), F.A.C.) - Please mail a notice of application in accordance with Rule 62-701.320(8)(b), F.A.C., and provide proof of mailing.

4. **Part F. (Rule 62-701.330, F.A.C.). The following comments are related to the drawings provided for the construction of Section 8:**

a) F.3. (Rule 62-701.330(3)(c), F.A.C.) - Please provide a drawing (possibly an aerial photograph) of the Capacity Expansion area with the locations of all soil borings (especially those within Section 8), the limits of each disposal unit, the proposed final contours (after total expansion buildout), and conceptual closure details with the locations of gas vents.

b) Sheet 3: Please show the locations of all soil borings within Section 8. If there are none along the north, east and west portions of Section 8, then others may be required.

c) Sheet 4: Please provide a cross-section oriented east-west along the boundary between Sections 7/8 (where both connect), and show all excavation limits and liner system components on the cross-section.

d) Sheet 7: Please identify the bottom limits of the phosphatic clay on each cross-section and add notes describing the intended purpose of this excavation. Borings that are not within the vicinity of Section 8 appear to be irrelevant and should be deleted from this drawing.

e) Sheet 8: Please show all liner system components on Detail 5 and add a note to describe the purpose of the 8 inch tee.

f) Sheet 9: Please show all liner system connections on an expanded detail to include minimum overlap for each component and add notes to describe all construction procedures for all connections at all locations (including between Section 7 and Section 8 along the east and west berms).

5. **Part H (construction requirements, Rule 62-701.400, F.A.C.):**

a) H.2.a.(2) (Rule 62-701.400(3)(a)2., F.A.C.) - Related comments are provided in item 7. of this letter.

b) H.2.c.(2) and (4). Please confirm that the referenced calculations are still valid for the completion of Section 8 after total expansion buildout. To ensure adequate performance, calculations must be based on conservative values for waste density under the maximum height of the landfill after total expansion buildout.

c) H.2.d., e., f. Please provide the specific reference to each subsection in each project specification (and in the CQA Plan when appropriate) to demonstrate compliance with each applicable requirement of these related rules (Rules 62-701.400(3)(d), (e), and (f), F.A.C.).

d) H.3.a.(2), and b.(3) and (4). Please confirm that the referenced calculations are still valid for the completion of Section 8 after total expansion buildout. To ensure adequate performance, calculations must be based on conservative values for waste density under the maximum height of the landfill after total expansion buildout.

e) H.6. and 7. Please provide the specific reference to each subsection in each project specification (and in the CQA Plan when appropriate) to demonstrate compliance with each applicable requirement of these related rules (Rules 62-701.400(7) and (8), F.A.C.).

f) Specifications: Related comments are provided in items 6.c) and e) of this letter. The Specifications will be reviewed in their entirety upon receipt of the related information.

g) CQA Plan: Related comments are provided in items 6.c) and e) of this letter. The CQA Plan will be reviewed in its entirety upon receipt of the related information.

h) Help model: Please describe the HELP model results as related to the reportable "leakage rate allowed" as described in Attachment H-2.

6. **Part I (Rule 62-701.410(1), F.A.C.):** Related comments are provided in Mr. John Morris's March 5, 2004 memorandum (attached).

7. **Part J (Rule 62-701.410(2), F.A.C.):** Please confirm that the referenced calculations are still valid for the completion of Section 8 after total expansion buildout. To ensure adequate performance, calculations must be based on conservative values for waste density under the maximum height of the landfill after total expansion buildout. All related calculations must be based on conservative values and should confirm factors of safety greater than 1.5. Please provide the specific reference to each calculation required to demonstrate compliance with each applicable requirement of Rule 62-701.410(2)(e), F.A.C..

8. **Part M (Rule 62-701.510, F.A.C.):** Related comments are provided in Mr. John Morris's March 5, 2004 memorandum (attached).

9. **Parts O, P, Q:** Detailed descriptions and drawings related to the closure of Section 8 will be required as part of a closure permit.

All descriptions and drawings related to the operation of Section 8 will be required as part of an operation permit or modification of the existing operation permit (prior to operation and acceptance of waste into Section 8).

"NOTICE! Pursuant to the provisions of Section 120.60, F.S. if the Department does not receive a complete response to this request for information within 45 days of the date of this letter, the Department may issue a final order denying your application. You need to respond within 45 days after you receive this letter, responding to all of the information requests and indicating when a response to any unanswered questions will be submitted. If the response will require longer than 45 days to develop, you should develop a specific time table for the submission of the requested information for Department review and consideration. 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 a 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."

You are requested to schedule a meeting with the Department to discuss the items in this letter prior to responding. You are requested to submit your responses to this letter together, as one complete package with an original and three copies of all correspondence (with one copy sent to Ms. Susan Pelz). If you have any questions and wish to schedule a meeting, you may call me at (813)744-6100, extension 382.

Sincerely,

Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

kbf

Attachments:
Notice of Application
Memorandum by Mr. Morris

cc: Ray Dever, P.E., SCS Engineers
Susan Pelz, P.E., FDEP Tampa
John Morris, P.G., FDEP Tampa
David Smith, P.E., FDEP Tampa- ERP
Ron Cope, EPCHC

62-110.106(5). Notices: General Requirements.
Each person who files an application for a Department permit or other notice as may publish or be required to publish a notice of application or other notice as set forth below in this section. Except as specifically provided otherwise in this paragraph, each person publishing such a notice under this section shall do so at his own expense in the legal advertisements section a newspaper of general circulation (i.e., one that meets the requirements of sections 50.011 and 50.031 of the Florida Statutes) in the county or counties in which the activity will take place or the effects of the Department's proposed action will occur, and shall provide proof of the publication to the Department within seven days of the publication.

62-110.106(6). Notice of Application. Publication of a notice of application shall be required for those projects that, because of their size, potential effect on the environment or natural resources, controversial nature, or location, or 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 by the applicant one time only within fourteen days after a complete application is filed and shall contain the name of the applicant, a brief description of the project and its location, the location of the application file, and the times when it is available for public inspection. 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 a permit application from Hillsborough County, c/o Mr. Daryl Smith, for the construction of a Class I Landfill disposal unit (Section 8) an expansion of the existing Southeast County Landfill Capacity Expansion, located approximately 9 miles east of U.S. Highway 301 on County Road 672, 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 33619-1352.

Flor ı Department of

Memorandum

Environmental Protection

TO:	Kim Ford, P.E.
FROM:	John R. Morris, P.G. JRM
DATE:	March 5, 2004
SUBJECT:	Southeast County Landfill, Class I Landfill Expansion (Section 8) Permit Application Pending Construction Permit No. 35435-009-SC, Hillsborough County Hydrogeologic and Environmental Monitoring Review Comments
cc:	Susan Pelz, P.E.

I have reviewed the materials submitted to the Department in support of the referenced application for the Southeast County Landfill, Class I Landfill Expansion (Section 8) that was prepared by SCS Engineers on behalf of Hillsborough County, received February 9, 2004. My review focused on the hydrogeologic and environmental monitoring aspects of the permit application.

Please note that Section M of the *Engineering Report* indicates that Hillsborough County is not seeking to update the existing monitoring plan at this time as part of the construction permit application and changes to the monitoring plan will be submitted to the Department as part of the future operation permit application for Section 8. Please also note that technical details are provided in Section M of the *Engineering Report* regarding proposed detection well locations and construction details. Review comment Nos. 7 through 10 and comment No. 12 have been provided herein as a courtesy for informational purposes and do not require responses. It is anticipated that these same technical matters will be addressed during review of the future operation permit application.

Please have the applicant address the following review comments and provide revised submittals, or replacement pages to the submittals, that use a ~~strikethrough~~ and underline format, or similar format, to facilitate review. Please also have the applicant include the revision date as part of the header/footer for all revised pages.

The information requests have been referenced to sections of the permit application, as presented below:

Part A – General Information

1. **A.4.** – DEP ID Number. Please note that this item of the application form refers to the identification number assigned to the facility in the Department's Water Assurance Compliance System database (SWD/29/41193). Please submit a revised application form for this item with the referenced identification number.

2. **A.7.** – Location Coordinates. Review of the Department's GIS database appears to indicate that the provided latitude and longitude coordinates are located within the footprint of Phases I through VI and are located about 4,000 feet southwest of the center of Section 8. Please submit a revised application form for this item with revised latitude and longitude coordinates that describe the Section 8 footprint.

Part B – Disposal Facility General Information

3. **B.13.** – Property Recorded as a Disposal Site in County Land Records. It is indicated that the property is recorded as a disposal site in the County Land Records. Please indicate if this has been done to complete the requirements of Rule 62-701.610(5), F.A.C. If so, please provide a certified copy of the County record including the legal description and a scale-drawn map for that part of the property that has been so recorded. If not, please submit a revised application form for this item that indicates a "No" response.

4. **B.18.** – Number of Monitoring Wells. It is indicated that there are 8 existing wells and 2 proposed wells. Please clarify what 8 existing wells are referenced by this item of the application form. (It is noted that 9 wells are referenced in permit No. 35435-006-SO for Phases I through VI, and 5 wells are referenced in permit No. 35435-007-SO for Section 7).

Part I – Hydrogeological Investigation Requirements (Rule 62-701.410(1), F.A.C.)

5. **I.1.d.** – On-site Hydraulic Connection Between Aquifers. It is indicated that it is "unlikely there is a direct on-site hydraulic connection between aquifers" within Section 8. Please note that review of Section H.1.d. of the *Engineering Report* (March 2000) submitted for the construction permit application for Section 7 referenced the installation of 8 soil borings in the vicinity of Section 7 (Figure H-5) and cross sections (Figures H-6 and H-7) to demonstrate the occurrence of the confining unit. Please review the available data for soil borings conducted within or in proximity to Section 8 to demonstrate the occurrence of the confining unit within the proposed disposal footprint.

6. **I.1.f.** – Description of Topography, Soil Types and Surface Water Drainage Systems. It is indicated that runoff from the construction of Section 8 will be controlled and conveyed to stormwater detention/retention basins within the Southeast County Landfill property boundary. Please review this section of the *Engineering Report* and submit revisions as appropriate to be consistent with the County's letter dated February 2, 2003 that provided responses to the Department's Warning Letter #WL02-0003SW29SWD to ensure that surface water discharges will meet the surface water criterion for turbidity.

Part M – Water Quality and Leachate Monitoring Requirements (Rule 62-701.510, F.A.C.)

As indicated above, comment Nos. 7 through 10 and comment No. 12 have been provided for informational purposes and do not require responses as the technical issues will be reviewed when the operation permit is submitted for Section 8.

7. **M.1.c.1.** – Detection Wells. It does not appear that the two proposed detection well locations are adequate to address the ground water divide that occurs between the eastern portion of Section 8 and Smith Lake as identified in Appendix F of the SCS Engineers document entitled *Groundwater Monitoring Plan*, dated April 2003, revised May 2003. It appears that at least one detection well located east of Section 8 should be included in the revised monitoring plan.

8. **M.1.c.3** – Background Wells. Please note that the reference to the current background well (TH-19) appears to be incorrect as this well has been designated as the Floridan aquifer background well for Phases I through VI. It appears that this section should that refer to the surficial aquifer background well that is referenced in the permit for Section 7 (TH-36A).

9. **M.1.c.5** – Well Spacing. Please note that the discussion of well spacing for the proposed monitor wells does not address the additional well referenced in review comment No. 7.

10. **M.1.c.6** – Well Screens. Please note that the discussion of well screen intervals for the proposed monitor wells does not address the additional well referenced in review comment No. 7.

11. **M.1.c.7** – Abandoning Wells. Please clarify if existing piezometers P-3S and P-3D will be maintained during construction of Section 8 of if these locations shall be abandoned prior to commencement of construction activities. Please submit revisions to this section if these piezometers will be abandoned.

12. **M.1.f.1** – Initial Background Groundwater and Surface Water Sampling. Please note that the discussion of initial sampling at the proposed monitor wells does not address the additional well referenced in review comment No. 7.

13. **M.1.f.2** – Routine Leachate Sampling and Analysis. It is indicated that water retained in Section 8 prior to beginning waste disposal will be sampled and analyzed for the annual and semi-annual parameters listed in Rule 62-701.510(8)(c) and (8)(d), F.A.C. Please note that Rule 62-701.510(6)(c), F.A.C., only requires annual leachate sampling. Please submit revisions to this section to delete reference to semi-annual leachate parameters.

I can be contacted at 813-744-6100, extension 336, to discuss these review comments.

jrm

Florida Department of

Memorandum — Environmental Protection

TO: Kim Ford, P.E.
FROM: John R. Morris, P.G. JRM
DATE: March 5, 2004
SUBJECT: Southeast County Landfill, Class I Landfill Expansion (Section 8) Permit Application Pending Construction Permit No. 35435-009-SC, Hillsborough County Hydrogeologic and Environmental Monitoring Review Comments
cc: Susan Pelz, P.E.

I have reviewed the materials submitted to the Department in support of the referenced application for the Southeast County Landfill, Class I Landfill Expansion (Section 8) that was prepared by SCS Engineers on behalf of Hillsborough County, received February 9, 2004. My review focused on the hydrogeologic and environmental monitoring aspects of the permit application.

Please note that Section M of the *Engineering Report* indicates that Hillsborough County is not seeking to update the existing monitoring plan at this time as part of the construction permit application and changes to the monitoring plan will be submitted to the Department as part of the future operation permit application for Section 8. Please also note that technical details are provided in Section M of the *Engineering Report* regarding proposed detection well locations and construction details. Review comment Nos. 7 through 10 and comment No. 12 have been provided herein as a courtesy for informational purposes and do not require responses. It is anticipated that these same technical matters will be addressed during review of the future operation permit application.

Please have the applicant address the following review comments and provide revised submittals, or replacement pages to the submittals, that use a ~~strikethrough~~ and underline format, or similar format, to facilitate review. Please also have the applicant include the revision date as part of the header/footer for all revised pages.

The information requests have been referenced to sections of the permit application, as presented below:

Part A – General Information

1. **A.4.** – DEP ID Number. Please note that this item of the application form refers to the identification number assigned to the facility in the Department's Water Assurance Compliance System database (SWD/29/41193). Please submit a revised application form for this item with the referenced identification number.

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I can be contacted at 813-744-6100, extension 336, to discuss these review comments.

jrm

COMMISSION
Kathy Castor
Pat Frank
Ken Hagan
Jim Norman
Jan K. Platt
Thomas Scott
Ronda Storms

Administrative Offices,
Legal & Water Management Division
The Roger P. Stewart Environmental Center
1900 - 9th Ave. • Tampa, FL 33605
Ph. (813) 272-5960 • Fax (813) 272-5157
Air Management Fax 272-5605
Waste Management Fax 276-2256
Wetlands Management Fax 272-7144
1410 N. 21st Street • Tampa, FL 33605

Executive Director
Richard D. Garrity, Ph.D.

MEMORANDUM

Date: March 2, 2004

To: Kim D. Ford, P.E., FDEP Solid Waste Section

From: Ronald A. Cope, CHMM, General Manager, Solid & Hazardous Waste Section

RE: **CONSTRUCTION PERMIT APPLICATION, SECTION 8, SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA**

In accordance with the provisions of Chapter 84-446, Laws of Florida, the requirements of Chapter 1-7, Rules of the Environmental Protection Commission (EPC), and the EPC/FDEP Inter-Agency Operating Agreement, EPC staff have reviewed and evaluated the referenced application, which was received by the EPC on FEB 9, 2004.

Based on the information provided in the application and supporting information, the Commission would like to submit the following comments for the Department's inclusion in any request for additional information that may be forwarded to the applicant.

1. Based on the complexity of the application and the level of detailed review required for the approval of the subject construction permit, it is respectfully requested that specific sections and page numbers of previously submitted documents pertaining to Section 7 be referenced when identifying information contained in those documents that is applicable to the Section 8 construction application. Likewise, as pertains to information contained in the Section 8 application, based on the volume and complexity of the information provided, specific section and page references should be made when directing the reviewer to various sections of the supporting information. Therefore, a number of comments are provided requesting a specific reference to applicable information.

2. It is understood that the subject application has been submitted for approval of a construction permit and that an application for an operation permit will be submitted separately and at a later date. It is acknowledged that the requirements of §62-701.500 have been briefly addressed in this submittal. However, no comments have been provided in association the landfill operations portion of the supporting information.

3. Section E, page E-1, subsection E.6, outlines previously submitted documents to which reference is made throughout the application. A review of EPC files revealed that the response to the FDEP dated SEP 7, 2001, and the response to the FDEP dated FEB 5 2003, are not on file with the EPC.

4. Form 62-701.900(1), page 4 of 40, response item A.1., indicates that the facility will function as a non-disposal facility type and will function as an incinerator for non-biomedical waste and that other non-disposal activities/operations will be conducted. It appears that these responses have been provided erroneously. Clarification should be provided.

5. Form 62-701.900(1), page 6 of 40, response item B.8., indicates that an "other" waste type will be received at the facility. No description of the other waste has been provided. Clarification should be provided.

6. Form 62-701.900(1), page 7 of 40, response item B.20., indicates that two (2) passive gas flare units will be used for the control of landfill gas. No additional information is provided related to the design and/or use of the passive flares.

7. Form 62-701.900(1), page 7 of 40, response item B.23., does not identify that surface impoundment(s) will be used for leachate storage. However, it is understood that Pond B is routinely used for the storage of leachate.

8. Form 62-701.900(1), page 9 of 40, response item C.1. No information is provided here as this section is identified as not applicable. However, as indicated in item 1, above, responses provided on page 4 of 40, response item A.1., indicates that non-disposal facility type activities will be conducted.

9. Form 62-701.900(1), page 14 of 40, response item F.3.f., previously filled waste disposal areas has not been addressed in the supporting information's Section F, page F-1. Item F.3.(f) should include information pertaining to previously filled waste disposal areas; item F.3.(g) should provide the information associated with fencing.

10. 62-701.320(7)(f)6, 62-701.400(2). Plan sheets which specifically illustrate the sequence of filling to be observed within Section 8 should be provided. Plans similar to Record Drawings, sheet 9 of 22, Sequence Plans - Section 7, signed sealed and dated DEC 12, 2003, should be provided. [Sec. H.1, page H-1]

11. 62-701.320(13)(c). Verification should be provided that no airport exists within a five (5) mile radius of Section 8 expansion area. In the event that an airport does exist within that radius, verification that the airport, the FAA, and the FDOT have been notified should be provided. [Sec. E.14, page E-3]

12. 62-701.320(8). The required proof of publication has not been submitted. [Sec. E.13, page E-3]

13. 62-701.320(15). Verification of proper operator and spotter training, in the form of copies of appropriate training certificates with training course name, name of trainee and date completed has not bee provided. [Sec. E.15, page E-3, E-4]

14. 62-701.330(2)(d). The topographic maps provided do not show cross sections of lifts as required. See item 10, above. [Sec. F.4(e), page F-2]

15. 62-701.400(3)(a)1. Detailed information should be provided or specific references to current of previously submitted information should be included and statements should be provided that will clearly demonstrate and provide assurance that the double liner materials to be utilized at the Section 8 expansion area have appropriate physical, chemical, and mechanical properties to prevent failure. [Sec. H.2.a.1, page H-1]

16. 62-701.400(3)(d)7. Verification should be provided or specific reference(s) should be made to current or previously submitted information that provides assurances of the appropriate methods for testing interface shear strength. [Sec. H.2.d.7, page H-4]

17. 62-701.400(3)(d)8. Verification should be provided or specific reference(s) should be made to current or previously submitted information that provides assurances of the appropriate methods for testing transmissivity. [Sec. H.2.d.8, page H-4]

18. 62-701.400(3)(a). Detailed information, including site plan details or specific references to current or previously submitted information should be included which outline tasks, processes, and procedures related to the connection of the Section 7 and Section 8 double liner systems.

19. 62-701.400(3)(e). Verification should be provided or specific reference(s) should be made to current or previously submitted information that provides assurance of compliance with each of the geosynthetic specification requirements. [Sec. H.2(e), page H-5]

20. 62-701.400(3)(f). Verification should be provided or specific reference(s) should be made to current or previously submitted information that provides assurance of compliance with the standards for soil components. [Sec. H.2(f), page H-5]

21. 62-701.400(4). Based on the information provided and the references to previous information, it is appears that it is intended that the design, materials, construction, operation and maintenance of the LCRS associated with Section 8 will be identical or nearly identical to that previously approved pertaining to Section 7. [Sec. H.3, page H-5] The following clarification is needed:

    (a) Verification that the design, materials, construction, operation and maintenance of the LCRS associated with Section 8 will not be changed from that previously approved for Section 7;

    (b) Details related to the procedures necessary and tasks to be completed in the connection of the Section 7 and Section 8 LCRS. Additional site plan details should also be provided.

22. 62-701.400(7). Specific references should be made to current or previously submitted information which will verify and provide assurances of compliance with all requirements pertaining to liner systems construction quality assurance. [Sec. H.6, page H-5]

23. 62-701.400(8). Specific references should be made to current or previously submitted information which will verify and provide assurances of compliance with all requirements pertaining to soil liner construction quality assurance. [Sec. H.7, page H-6]

24. Plan Sheet 3 of 9, Excavation Plan, demarcates within Section 8, the "approximate limits of Section 8". The significance of this limit is unclear as it lies well within the boundaries of the excavation area.

25. Plan Sheet 8 of 9, East Cleanout detail, illustrates the connection of an existing 6" HDPE collection pipe to a 45° 8"x6" wye. All other details provided pertaining to the LCRS indicate that all collection and cleanout pipes are 8" in size. Additional clarification is needed.

26. Plan Sheet 9 of 9, Typical Liner Termination Detail (North & East Side), illustrates the liner anchor trench to be constructed at the referenced locations. It is understood that the liner termination at the east side of Section 8 will be a permanent liner termination. However, the anchor trench illustrated is similar to that used as a temporary trench. Plan Sheet 15 of 22, included with the Section 7, Record Drawings illustrates a permanent anchor trench of a differing configuration. Additional clarification should be provided explaining the differing trench designs.

If, upon your review of these comments, you have questions, comments or concerns or feel that a meeting with the applicant is warranted, please feel free to contact me at (813) 272-5955, extension 1292 or via e-mail at cope@epchc.org.

Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619-1352

[redacted]

INFORMATION REQUEST

TO: Ron Cope
EPC

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 33619-1352
PH: 813-744-6100, ext. 382
FAX: 813-744-6125
E-Mail: kim.ford@dep.state.fl.us

COMMENTS: Comments on Section B
Requested by 3/10/04
Thanks
Kim 2/9/04

FLORIDA DEPARTMENT O
ENVIRONMENTAL PROTECT
FEB - 9 2004
SOUTHWEST DISTRICT
TAMPA

[redacted]

File No. 09200020.34
February 4, 2004

Construction Permit Application – Capacity Expansion, Section 8

Southeast County Landfill
Hillsborough County, Florida

SCS ENGINEERS

Prepared for:

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

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB - 9 2004
SOUTHWEST DISTRICT
TAMPA

Prepared by:

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

File No. 09200020.34
February 4, 2004

WASTE MANAGEMENT TECHNICAL SUPPORT
ROUTING FORM

PERMITTED FACILITIES

To: John

From: Kim

Date: 2/9/04

Subject: Section 8 SCLF Expansion

Document Name: _____

Revision Number 0 County: Hills

Facility Name: _____

Type of Facility: CLF

Permit Number: _____ Issue Date: _____

Copy of Permit attached: _____

Document submitted in compliance with permit condition. _____

Document subject to permit timeclock. 45

Day 1: 2/9/04

Day 30: 3/10/04

PATS sheet attached: _____

Enforcement Case/CO/NOV/ associated with this site: _____

Files and related documents can be found ~~Application~~

Please review and comment on the technical aspects of the attached document as you deem appropriate. In order to maintain progress with the permit review, please provide comments within 30 days or by 3/3/04.

Comments: _____

Module _____

Attachments

Construction Permit Application – Capacity Expansion, Section 8

Southeast County Landfill
Hillsborough County, Florida

SCS ENGINEERS

Prepared for:

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

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB - 9 2004
SOUTHWEST DISTRICT
TAMPA

Prepared by:

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

File No. 09200020.34
February 4, 2004

WASTE MANAGEMENT TECHNICAL SUPPORT
ROUTING FORM

PERMITTED FACILITIES

To: STEVE

From: tm

Date: 2/4/04

Subject: Section B SCLF Expansion

Document Name: _____

Revision Number 0 County: Falls

Facility Name: _____

Type of Facility: CILF

Permit Number: _____ Issue Date: _____

Copy of Permit attached: _____

Document submitted in compliance with permit condition. _____

Document subject to permit timeclock. YES

Day 1: 2/9/04

Day 30: 3/10/04

PATS sheet attached: _____

Enforcement Case/CO/NOV/ associated with this site: _____

Files and related documents can be found Attached

Please review and comment on the technical aspects of the attached document as you deem appropriate. In order to maintain progress with the permit review, please provide comments within 30 days or by 3/3/04.

Comments: _____

Module _____

Attachments

SECTION S

FINANCIAL RESPONSIBILITY

S.1 COST ESTIMATES

The most recent Closure and Long-Term Care cost estimates for Section 7 of the Capacity Expansion at the Southeast County Landfill were FDEP-approved September 19, 2003. The Section 7 approved costs inflation-adjusted using the FDEP inflation factor of 1.01 for 2004. Since Section 7 and Section 8 are designed similarly, and are to be constructed adjacent, quantities for Section 8 were estimated on a comparative per acre basis and added to those of Section 7 to arrive at a total quantity. The 2004 inflated unit costs were then used to calculate a total which included Section 7 and Section 8. The Financial Assurance Cost Estimate Form, is included as Attachment S-1.

Closure of Sections 7 and 8 (19.3 acres total) is estimated to cost $2,360,000. Long-term care is estimated to cost $153,000 per year or $4,590,000 for the 30-year care period required by Rule 62-701.630(3)(a), FAC.

S.2 ANNUAL COST ESTIMATES

An annual cost adjustment will be provided to FDEP in accordance with Rule 62-701.630(4) FAC. The estimate will address closure and long-term care costs, as well as corrective action costs, if required.

S.3 FUNDING MECHANISMS

The funding mechanism for Hillsborough County is a Financial Test. Fiscal Year 2001 State of Florida documentation to demonstrate closure and/or long term care financial assurance was included with the September 2002 Operation Permit Application for Section 7. The SWMD will include Section 8 in the Financial Test when the SWMD applies for the Operation Permit for Section 8 and the documentation will be submitted to the FDEP.

ATTACHMENT S-1

FINANCIAL ASSURANCE COST ESTIMATE FORM

DEP Form #	62-701.900(28)
Form Title	Financial Assurance Cost Estimate Form
Effective Date	05-27-01
DEP Application No.	(Filled by DEP)

Florida Department of Environmental Protection

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

FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: January 19, 2004 Date of FDEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: Southeast Landfill Capacity Expansion WACS or GMSID #.: _____
Permit / Application No.: _____ Expiration Date: _____
Facility Address: 8.8 miles east of U.S. Highway 301 on County Road 672
Permittee: Hillsborough County Solid Waste Management Department
Mailing Address: P.O. Box 1110, Tampa, Florida 33601

Latitude: 27°46'35" N Longitude: 82°10'38" W or UTM: _____

Solid Waste Disposal Units Included in Estimate:

Phase / Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
Section 7	12.5	January 5, 2004	2 years
Section 8	6.8	No waste disposed	

Total Landfill Acreage included in this estimate. 19.3 Closure 19.3 Long-Term Care

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

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

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

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

Northwest District
160 Governmental Center
Pensacola, FL 32501-5794
850-595-8360

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

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

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

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

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

III. ESTIMATE ADJUSTMENT

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

☐ **(a) Inflation Factor Adjustment**

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

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

Latest Department Approved Closure Cost Estimate:		Current Year Inflation Factor		Inflation Adjusted Closure Cost Estimate:
_____	x	_____	=	$0

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

Latest Department Approved Annual Long-Term Care Cost Estimate:		Current Year Inflation Factor		Inflation Adjusted Annual Long-Term Care Cost Estimate
_____	x	_____	=	$0

Number of Years of Long Term Care Remaining:	x	30
Inflation Adjusted Long-Term Care Cost Estimate:	=	$0

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

IV. CERTIFICATION BY ENGINEER

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

Signature of Engineer

Raymond J. Dever, P.E., Vice President
Name & Title (please type)

43031
Florida Registration Number (affix seal)

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

813-621-0080
Telephone Number

Signature of Owner/Operator

Daryl H. Smith, Director
Name & Title (please type)

813-272-5680
Telephone Number

RECALCULATE ESTIMATED CLOSING COST

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

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

ESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
. Proposed Monitoring Wells		(Do not include wells already in existence.)		
	EA	0.00	0.00	$0.00
. Slope and Fill (bedding layer between waste and barrier layer):				
Excavation	CY	45,230	2.20	$100,000
Placement and Spreading	CY	500	5.93	$3,000
Compaction	CY	0.00	0.00	$0.00
Off Site Material	CY	0.00	0.00	$0.00
Delivery	CY	0.00	0.00	$0.00
			Subtotal Monitoring Wells:	$103,000
. Cover Material (Barrier Layer):				
Off-Site Clay	CY	0.00	0.00	$0.00
Synthetics - 40 mil	SY	840,708	0.38	$319,000
Synthetics - GCL	SY	0.00	0.00	$0.00
Synthetics - Geonet	SY	0.00	0.00	$0.00
Synthetics - Other	SY	840,708	0.49	$410,000
			Subtotal Barrier Layer Cover:	$729,000
. Top Soil Cover:				
Off-Site Material	CY	46,706	6.48	$303,000
Delivery	CY	0.00	0.00	$0.00
Spread	CY	0.00	0.00	$0.00
			Subtotal Top Soil Cover	$303,000

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
5. Vegetative Layer				
6" Topsoil	CY	15,568	5.93	$92,000
Delivery & spreading	CY	15,568	4.87	$76,000
Sodding	SY	4,184	1.35	$6,000
Hydroseeding[1]	AC	18.4	2,206	$41,000
Other (Topsoil)	CY	0.00	0.00	$0
[1]Hydroseeding includes mulch & fertilizer			Subtotal Vegetative Layer:	$215,000
6. Stormwater Control System:				
Earthwork	CY	0	0.00	$0
Grading	SY	0	0.00	$0
Piping	LF	0	0.00	$0
Ditches	LF	0	0.00	$0
Berms	LF	0	0.00	$0
Downchute Const	LF	556	65.92	$37,000
Drainage Toe Const.	LS	2,196	45.26	$99,000
			Subtotal Stormwater Controls:	$136,000
7. Gas Controls: Passive				
Passive LFG Vents[1]	EA	19	1,081	20,000
Pipe and Fittings	LF	0	0.00	0
Monitoring Probes	EA	0	0.00	0
NSPS/Title V requireme	LS	0	0.00	0
[1]Vents at 1/ac			Subtotal Passive Gas Control:	$20,000

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
3. Gas Control: Active Extraction				
Traps	EA	0	0.00	$0
Sump	EA	0	0.00	$0
Flare Assembly	EA	0	0.00	$0
Flame Arrestor	EA	0	0.00	$0
Mist Eliminator	EA	0	0.00	$0
Flow Meter	EA	0	0.00	$0
Blowers	EA	0	0.00	$0
Collection System	LF	0	0.00	$0
Other (describe)		0	0.00	$0
			Subtotal Active Gas Extraction:	$0
9. Security System (Existing)				
Fencing	LF	0	0.00	$0
Gate(s)	EA	0	0.00	$0
Sign(s)	EA	0	0.00	$0
			Subtotal Security System:	$0
10. Engineering:				
Closure Plan Report	LS	1	99,300	$99,300
Certified Engineer[1]	LS	1	25,796	$26,000
NSPS/Title V Air Permit	LS	0	0.00	$0
Final Survey	LS	0	0.00	$0
Certification of Closure	LS	1	108,624	$109,000
Closure Permit	LS	1	7,500	$7,500
[1]Includes certified drawings for construction			Subtotal Engineering:	$242,000

11. Professional Services

	Contract Management		Quality Assurance		
	Hours	LS	Hours	LS	TOTAL
P.E. Supervisor	127	15,000	80	10,000	$25,000
On-Site Engineer	124	11,000	1058	78,000	$89,000
Office Engineer	865	64,000	154	13,000	$77,000
On-Site Technician	534	31,000	371	15,000	$46,000
Admin Support	43	2,000	1	16,000	$18,000

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
Quality Assurance Testing	LS	0	0.00	$0.00

Subtotal Professional Services: $255,000

12. Site Specific Costs (explain)

Mobilization	$110,000
Waste Tire Facility	$0.00
Materials Recovery Facility	$0.00
Special Wastes	$0.00
Leachate Management System Modification	$0.00
Access Road Construction	$32,000
	$0.0

Subtotal Site Specific Costs: $142,000

Subtotal of 1-12 Above: $2,145,000

13. Contingency 10.00%

Contingency: $215,000

TOTAL CLOSING COSTS: $2,360,000

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

____ 5 years ____ 20 years _X_ 30 years ____ Other

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

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

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

DESCRIPTION	Sampling Frequency (events/yr.)	Number of Wells	$/Well/Event	$ / Year
1. Groundwater Monitoring (62-701.510(6), and (8)(a))				
Monthly	12	0	0	$0
Quarterly	4	0	0	$0
Semi-Annual	2	4	3,089	$25,000
Annual	1	0	0	$0
			Subtotal Groundwater Monitoring:	$25,000
2. Surface Water Monitoring (62-701.510(4), and (8)(b))				
Monthly	12	0	0	$0
Quarterly	4	0	0	$0
Semi-Annual	2	0	0	$0
Annual	1	0	0	$0
Four site locations sampled under existing permit			Subtotal Surface Water Monitoring:	$0
3. Gas Monitoring				
Monthly	12		0	$0
Quarterly	4	2	1,081	$9,000
Semi-Annual	2		0	$0
Annual	1		0	$0
			Subtotal Gas Monitoring:	$9,000.00

DESCRIPTION	Sampling Frequency (events/yr.)	Number of Wells	$/Well/Event	$ / Year
4. Leachate Monitoring (62-701.510(5), (6)(b) and 62-701.510(8)(c))				
Monthly	12	0	0	$0
Quarterly	4	0	0	$0
Semi-Annual	2	1	474	$1,000
Annual	1	1	5,820	$6,000
Other		0	0	$0
			Subtotal Groundwater Monitoring:	$7,000

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
5. Leachate Collection/Treatment Systems Maintenance				
Maintenance				
Collection Pipes	LF	5,250	1.11	$6,000
Sumps, Traps	EA	1	1,175	$1,000
Lift Stations	EA	0	0.00	$0
Cleaning	LS	0	0.00	$0
Tanks	EA	0	0.00	$0
Impoundments				
Liner Repair	SY	0	0.00	$0
Sludge Removal	CY	0	0.00	$0
Aeration Systems	CY	0	0.00	$0
Floating Aerators	EA	0	0.00	$0
Spray Aerators	EA	0	0.00	$0
Disposal				
Off-site (Include Transportation and Disposal)	1000 gallon	0	0.00	$0.00

Leachate Collection/Treatment Systems Operation

peration		Hours	$/Hour	Total
P.E. Supervisor	HR	0	0.00	$0
On-Site Engineer	HR	0	0.00	$0
Office Engineer	HR	0	0.00	$0
On-site Technician	HR	0	0.00	$0
Materials	LS	0	0.00	$0
	Subtotal Leachate Collection/Treatment System Maintenance & Operation:			$7,000

'. Maintenance of Groundwater Monitoring Wells

Monitoring Wells	LF	42	4.54	$200
Replacement	EA	0	0.00	$0.00
Abandonment	EA	0	0.00	$0.00
	Subtotal Groundwater Monitoring Well Maintenance:			$200

)ESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
3. Gas System Maintenance				
Piping, Vents	LF	185	6.48	$1,000
Wells	EA	259	6.55	$2,000
Blowers	EA	0	0.00	$0
Flaring Units	EA	0	0.00	$0
Meters, Valves	EA	0	0.00	$0
Compressors	EA	0	0.00	$0
Flame Arrestors	EA	0	0.00	$0
Operation	LS	0	0.00	$0
			Subtotal Gas System:	$3,000
9. Landscape				
Mowing	AC	19.3	349	$7,000
Fertilizer	AC	0	0	$0
			Subtotal Landscape Maintenance:	$7,000

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
10. Erosion Control & Cover Maintenance				
Sodding	LS	1	2,161	$2,000
Regrading	AC	0	0	$0
Liner Repair	SY	0	0	$0
Clay	CY	0	0	$0
			Subtotal Erosion Control and Cover Maintenance:	$2,000
11. Storm Water Management System Maintenance				
Conveyance Maintenance	LS	0	0.00	$0.00
			Subtotal Storm Water System Maintenance:	$0.00
Surface water drainage maintenance is covered under another site permit.				
12. Security System Maintenance				
Fences	LF	0	0.00	$0.00
Gate(s)	EA	0	0.00	$0.00
Sign(s)	EA	0	0.00	$0.00
			Subtotal Security System:	$0.00
Security system maintenance is covered under another site permit.				
13. Utilities	LS	0	0.00	$0.00
Utilitiesare included under another site permit.				
14. Administrative				
P.E. Supervisor	HR	0	0.00	$0
On-Site Engineer	HR	0	0.00	$0
(1) Equipment Operator	HR	642	28.95	$19,000
On-site Technician	HR	642	25.60	$16,000
(2) Laborers	HR	1,285	12.97	$34,000
			Subtotal Administrative:	$69,000
PE Supervisor, on-site engineer are on site and covered under an existing permit.				
15. Contingency	% of Total	$129,200	10%	$13,000
			Subtotal Contingency:	$13,000

16. Site Specific Costs (explain)	UNIT COST	
Contingency against Remedial Actions	LS	$10,800
	LS	$0
	LS	$0
ANNUAL LONG-TERM CARE COST ($/Year):		**$153,000**
NUMBER OF YEARS OF LONG-TERM CARE		30
TOTAL LONG-TERM CARE COST ($):		**$4,590,000**

Environmental Consultants

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

813-621-0080
FAX 813-623-6757

SCS ENGINEERS

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

DATE February 9, 2004
JOB NO. 09200020.34
ATTENTION Kim Ford
Re: Hillsborough County Capacity Expansion
Section 8

WE ARE SENDING YOU

☒ Attached ☐ Under separate cover via _____

☐ Shop drawings ☐ Prints

☐ Copy of letter ☐ Change Order

☐ The following items: ☐ Plans ☐ Samples

☐ Specifications ☐ _____

RECEIVED
FEB 0 9 2004
Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

COPIES	DATE	DESCRIPTION
3	2/4/04	Permit Application for Capacity Expansion Southeast County Landfill Section 8
1	12/03/04	Check No. 02248355 for $10,000.00

THESE ARE TRANSMITTED as check below:

☒ For approval ☐ Approved as submitted ☐ Resubmit _____ Copies for approval

☐ For your use ☐ Approved as noted ☐ Submit _____ Copies distribution

☐ As requested ☐ Returned for corrections ☐ Return _____ Corrected prints

☐ For review and comment ☐ _____

☐ FOR BIDS DUE _____ 20 _____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS _____

COPY TO Susan Pelz (w/attachments)

SIGNED: Larry Ruiz

If enclosures are not as noted, kindly notify us at once.

Southwest District
Permitting Application

New Site

Site Name:		
Site ID:		
County:		
Type/Subcode:		
Fee submitted:	( ) correct	( ) incorrect
Total Fee Required $_____	Need $_____	Refund $_____

Existing Site

Site ID:	35435 - 009	
Project Name:	Section-8 Expansion SCLF	
Type/Subcode:	SC / 01	
Fee submitted:	10,000 (✓) correct	( ) incorrect
Total Fee Required $ 10,000	Need $ 0	Refund $ 0

Applicant Information

Name:	Daryl Smith
Role:	Applicant
Company:	Hills Co.
Address:	po Box 1110
City:	Tampa Zip Code: 33601
Phone:	(813) 2725680

Fee verified by: K Ford

Application Assigned To: K Ford Date: 2/10/04

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
APPLICATION FOR A PERMIT TO CONSTRUCT, OPERATE, MODIFY OR CLOSE
A SOLID WASTE MANAGEMENT FACILITY

Please Type or Print

A. GENERAL INFORMATION

1. Type of facility (check all that apply):

[✔] Disposal
- [✔] Class I Landfill
- [ ] Class II Landfill
- [ ] Class III Landfill
- [ ] Other Describe: _____
- [ ] Ash Monofill
- [ ] Asbestos Monofill
- [ ] Industrial Solid Waste

[ ] Non-Disposal
- [✔] Incinerator For Non-biomedical Waste
- [ ] Waste to Energy Without Power Plant Certification
- [✔] Other Describe: _____

NOTE: Waste Processing Facilities should apply on Form 62-701.900(4), FAC; Land Clearing Disposal Facilities should notify on Form 62-701.900(3), FAC; Compost Facilities should apply on Form 62-701.900(10), FAC; and C&D Disposal Facilities should apply on Form 62-701.900(6), FAC

2. Type of application:
- [✔] Construction
- [ ] Operation
- [ ] Construction/Operation
- [ ] Closure

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

4. Facility name: Capacity Expansion Section 8 (Section 8) of the Southeast County Landfill (SCLF)

5. DEP ID number: SC29-158540 County: Hillsborough

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

7. Location coordinates:
13,14,15,18,19,22,23,24
Section: _____ Township: 31S Range: 21E, 22E

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

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

Mailing address: P.O. Box 1110 (Street or P.O. Box) Tampa (City) FL (State) 33601 (Zip)

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

Title: Director

smithd@hillsboroughcounty.org
E-Mail address (if available)

9. Authorized agent/Consultant: SCS Engineers

Mailing address: 3012 U.S. Highway 301 North, Suite 700 (Street or P.O. Box) Tampa (City) FL (State) 33619 (Zip)

Contact person: Raymond J. Dever Telephone: (813) 621-0080

Title: Vice President

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

10. Landowner(if different than applicant): Same

Mailing address: P.O. Box 1110 (Street or P.O. Box) (City) (State) (Zip)

Contact person: _____ Telephone: (___) _____

_____
E-Mail address (if available)

11. Cities, towns and areas to be served: Tampa, Temple Terrace, Plant City, and Hillsborough County

12. Population to be served:

Current: 984,673 Five-Year Projection: 1,017,820

13. Date site will be ready to be inspected for completion: FDEP to be notified

14. Expected life of the facility: Section 8 2 years

15. Estimated costs:

Total Construction: $ 2,900,000 (See Attachment A-2) Closing Costs: $ 2,360,000 (See Attachment S-1)

16. Anticipated construction starting and completion dates:

From: FDEP to be Notified To: FDEP to be Notified

17. Expected volume or weight of waste to be received:

_____ yds^3/day 2,200 tons/day _____ gallons/day

T. CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

1. 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 Construction Permit from the Florida Department of Environmental Protection and certifies that the information in this application is true, correct and complete to the best of his/her knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403, Florida Statutes, and all rules and regulations of the Department. It is understood that the Permit is not transferable, and the Department will be notified prior to the sale or legal transfer of the permitted facility.

Signature of Applicant or Agent

Daryl H. Smith, Director
Name and Title (please type)

E-Mail address (if available)

P.O. Box 1110
Mailing Address

Tampa, FL 33601
City, State, Zip Code

(813) 272-5680
Telephone Number

Date: 2/3/04

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

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

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

Signature

Raymond J. Dever, Vice President
Name and Title (please type)

43031
Florida Registration Number
(please affix seal)

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

Tampa, FL 33619
City, State, Zip Code

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

(813) 621-0080
Telephone Number

Date: 2/4/04

Environmental Consultants

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

813-621-0080
FAX 813-623-6757

SCS ENGINEERS

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

DATE February 9, 2004
JOB NO. 09200020.34
ATTENTION Kim Ford
Re: Hillsborough County Capacity Expansion
Section 8

WE ARE SENDING YOU

☒ Attached ☐ Under separate cover via _____
☐ Shop drawings ☐ Prints
☐ Copy of letter ☐ Change Order
☐ The following items: ☐ Plans ☐ Samples
☐ Specifications ☐ _____

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FEB 09 2004
Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

COPIES	DATE	DESCRIPTION
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1	12/03/04	Check No. 02248355 for $10,000.00

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☐ FOR BIDS DUE _____ 20 _____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS _____

COPY TO Susan Pelz (w/attachments)

SIGNED: Larry Ruiz

If enclosures are not as noted, kindly notify us at once.

1/20/04
SCLF Section 8 pre appl
meeting w/ Larry Ruiz
3 pm - 4:15 pm

Specs the same as for Sec 7
except a list of revisions
will be provided.
plans sheets will show "top of Clay"
on X sections for excavation
and liner limits
(Geonet will be 300 mils
All 8" SDR 17 HDPE pipe (w/no flanges)
sand to be > 1×10^{-3} cm/sec

2 new well that John Morris
already knows about

LR will send 4 originals to DEP
and 1 copy to EPC Ron Cope

Ford, Kim

Subject:	Section 8 SCLF preappl meeting
Location:	Black, Anna
Start:	Tue 1/20/2004 3:00 PM
End:	Tue 1/20/2004 4:30 PM
Recurrence:	(none)
Meeting Status:	Meeting organizer
Required Attendees:	Ford, Kim
Optional Attendees:	Morris, John R.; Pelz, Susan
Resources:	Black, Anna

This meeting is to discuss the Section 8 expansion construction permit application for the Southeast County Landfill - Hills. Co. with Patty Berry (Hills. Co.) and Larry Ruiz (SCS). As before there should be nothing controversial. This is sort of an extension of the Section 7 expansion.

Anna, please reserve the waste conference room. Thanks.

Ford, Kim

From: Larry Ruiz [lruiz@scsengineers.com]
Sent: Thursday, December 11, 2003 5:24 PM
To: Ford, Kim
Subject: Hillsborough Section 8 Note

Hello Kim, based on our conversation to develop a separate master sequence drawings set for the Capacity Expansion, it looks like the following drawings from the Section 7 set could be included; 3,4,5,9,10,11,12,13,16,19, and 20. I agree that having a separate master sequence set will make the development of future construction and record drawings a lot simpler. Thanks.

Please call if you have any questions or comments.

Larry E. Ruiz, Assoc. AIA
SCS Engineers, Tampa, FL.
Voice:(813)621-0080
Fax:(813)623-6757