

## SCS ENGINEERS

May 10, 2010  
File No 09207049 04

Dept Of Environmental Protectio.

**MAY 10 2010**

Southwest District

Mr Douglas Hyman, P E  
Environmental Resource Management  
Florida Department of Environmental Protection, Southwest District  
13051 N Telecom Parkway  
Temple Terrace, Florida 33637-0926

Subject Progress Report for Citrus County Central Landfill  
Citrus County 7-Acre Closed Landfill Re-closure Construction  
Citrus County, Florida  
Permit Number 09-0292195-001

Dear Mr Hyman

SCS Engineers (SCS) is submitting this semi-annual progress report in accordance with Specific Condition 7 of the Environmental Resource Permit (ERP) No 09-0292195-001, on behalf of Citrus County Solid Waste Management Division

This progress report covers the period from October 1, 2009 to April 1, 2010

This report represents a true and accurate description of the activities conducted during the six month period covered by this report

The required information for the progress reports, as outlined in the specific condition No 7 is as follows,

**Permit Name:** Citrus County Closed Landfill Re-Closure  
**Permit No.:** 09-0292195-001  
**Permittee:** Citrus County Solid Waste Management Division

Date permitted activity was begun

Permit activities began on November 17, 2009

Description and extent of the work completed since the previous report or since the permit was issued

As of April 1, 2010 the following work was completed

- Installation of all silt fencing and sediment control barriers installed prior to construction commencement
- Pre-construction survey conducted
- All rough regarding of Re-Closure area and DRAs 1, 2, & 3 completed



## SCS ENGINEERS

May 10 2010

Ms Susan J Pelz, P E  
Solid Waste Section  
FDEP, Southwest District Office  
13051 N Telecom Parkway  
Temple Terrace, FL 33637-0926

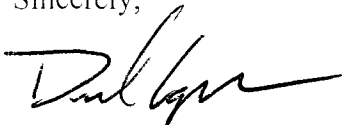
Subject Notification of Temporary Start-up Operation  
Citrus County Central Class I Landfill, Citrus County, Florida  
Phase 1/1A & 2 Gas Collection and Control System Construction  
Permit No 21375-017-SC/08  
WACS No SWD/09/39859

Dear Susan

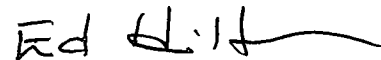
SCS Engineers (SCS) is submitting this notification in accordance with Specific Condition Part C 1 b of Solid Waste Construction Permit No 21375-017-SC/08, on behalf of Citrus County Solid Waste Management Division. This correspondence serves as the required notification that the Landfill Gas Collection and Control System (GCCS) has commenced temporary start-up operation as of April 23, 2010.

Please contact SCS at (813) 621-0080 with any questions.

Sincerely,



Daniel R. Cooper, P E  
Project Manager  
**SCS ENGINEERS**



C. Ed Hilton, P E  
Vice President  
**SCS ENGINEERS**

cc Casey Stephens, Citrus County Solid Waste Management Division



## SCS ENGINEERS

October 27, 2009  
File No 09207049 02

Mr Steve Morgan  
Florida Department of Environmental Protection  
13051 N Telecom Parkway  
Temple Terrace, Florida 33637-0926

Subject Proof of Publication for Permit No 21375-017-SC/08  
Citrus County Central Landfill Class I - Construction of a Landfill Gas  
Collection and Control System, Central Landfill, Citrus County, Florida

Dear Steve

On behalf of the Citrus County Solid Waste Management Division, SCS Engineers is submitting the enclosed proof of publication of the Notice of Intent to Issue a Construction Permit for the proposed permit no 21375-017-SC/08 for the Class I landfill gas collection and control system for Phase 1/1A and 2 at the Citrus County Central Landfill

Please call us if you have any questions

Sincerely,



Dominique H Bramlett, P E  
Project Manager



C Ed Hilton, Jr, P E  
Vice President  
**SCS ENGINEERS**

Dept Of Environmental Protection  
OCT 28 2009  
Southwest District

Enclosure



# Proof of Publication

from the  
**CITRUS COUNTY CHRONICLE**  
Crystal River, Citrus County, Florida  
**PUBLISHED DAILY**

STATE OF FLORIDA  
COUNTY OF CITRUS

Before the undersigned authority personally appeared

Mary Ann Naczi

Of the Citrus County Chronicle, a newspaper published daily at Crystal River, in Citrus County, Florida, that the attached copy of advertisement being a public notice in the matter of the

567-1013 TUCRN PUBLIC NOTICE 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 (File No. 21375-017-SC/08) to the Citrus County Board

Court, was published in said newspaper in the issues of October 13th, 2009,

Affiant further says that the Citrus County Chronicle is a Newspaper published at Crystal River in said Citrus County, Florida, and that the said newspaper has heretofore been continuously published in Citrus County, Florida, each week and has been entered as second class mail matter at the post office in Inverness in said Citrus County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement, and affiant further says that he/she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper

*Mary Ann Naczi*

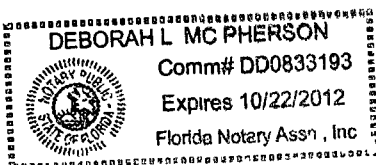
The forgoing instrument was acknowledged before me

This 13<sup>th</sup> day of Oct 2009

By Mary Ann Naczi

who is personally known to me and who did take an oath

*Deborah L McPherson*  
Notary Public



567-1013 TUCRN  
PUBLIC NOTICE

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 (File No. 21375-017-SC/08) to the Citrus County Board of County Commissioners who applied on April 22, 2009 to the Department of Environmental Protection to construct a landfill gas collection and control system for Phase 1/1A and 2 referred to as the Citrus Central Landfill Class I Landfill subject to the specific and general conditions attached located near SR 44 3 miles east of Lecanto Citrus County Florida

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57 Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard Mail Station 35 Tallahassee Florida 32399-3000 within fourteen (14) days of publication of this notice. A copy of the petition must also be mailed at the time of filing to the applicant at the address indicated. Failure to file a request for hearing 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. Mediation is not available in this proceeding.

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 the petitioner; (e) A statement of facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action; and (f) A statement of which rules or statutes 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 the petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department.

Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57 Florida Statutes and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207 Florida Administrative Code.

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 13051 North Telecom Parkway Temple Terrace Florida 33635-0926.

Published one (1) time in the Citrus County Chronicle  
Oct 13 2009

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
OCT 28 2009  
SOUTHWEST DISTRICT  
TAMPA

**Morgan, Steve**

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**From:** Cathy Winter [Cathy Winter@bocc citrus fl us]  
**Sent:** Wednesday, October 21, 2009 1 52 PM  
**To:** DBramlett@scsengineers.com  
**Cc:** Casey Stephens, Susan Metcalfe, Morgan, Steve  
**Subject:** Proof of Publication for Gas Collection & Control System for Phase 1 & 1/A – Citrus County Landfill  
**Attachments:** Gas Permit Proof of Publication.pdf

Dominique, Scanned copy attached The original will be going out in the mail to you tomorrow

Thanks  
Cathy

**Proof of Publication**  
from the  
**CITRUS COUNTY CHRONICLE**  
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COUNTY OF CITRUS

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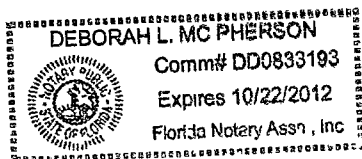
This 13<sup>th</sup> day of Oct 2009

By: Mary Ann Naczi

who is personally known to me and who did take an oath

*Deborah L. McPherson*

Notary Public



567-1013-TUCRN  
PUBLIC NOTICE

State of Florida  
Department of Environmental Protection  
Notice of Proposed Agency Action  
on Permit Application

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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 of Environmental Protection, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, within fourteen (14) days of publication of this notice. A copy of the petition must also be mailed at the time of filing to the applicant at the address indicated. Failure to file a request for hearing 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. Mediation is not available in this proceeding.

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; and (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.

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Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28.5-207, Florida Administrative Code.

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 13051 North Telecom Parkway, Temple Terrace, Florida 33635-0926.

Published one (1) time in the Citrus County Chronicle, Oct 13, 2009.

**Brantley, Anna**

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**From:** Brantley, Anna  
**Sent:** Wednesday, May 20, 2009 1 16 PM  
**To:** Hornbrook, Frank  
**Cc:** Pelz, Susan, Morgan, Steve  
**Subject:** Citrus Central Class I LF Gas Collection & Control System Construction RAI #1 mailed 5-20-2009  
**Attachments:** Citrus Central Class I Gas System Construction 21375-017-SO-08 RAI#1 mailed 5-20-2009 pdf

Please attached a copy of the citrus Central Class I LF Gas Collection & Control System Construction RAI #1

*Anna Brantley  
Administrative Assistant II  
FL DEP / SWD / Waste Managment  
13051 North Telecom Parkway  
Temple Terrace FL 33637-0629  
Tel 813/632-7600, Ext 377  
Fax 813/632-7664*



# 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

Ms. Susan Metcalfe, P G., Director  
Citrus County Solid Waste Division  
P.O. Box 340  
Lecanto, Fl. 34460-0340

May 20, 2009

RE: Citrus County Central Class I Landfill  
Landfill Gas Collection and Control System Construction  
Pending Permit No 21375-017-SO/08, Citrus County  
WACS No SWD/09/39859

Dear Ms Metcalfe

This is to acknowledge receipt of the permit application prepared by SCS Engineers, dated and received April 22, 2009 for permit to construct a landfill gas collection and control system in Phases 1, 1A, and 2 of an existing Class I landfill, referred to as the Citrus County Central Class I Landfill, located on S R 44, 3 miles east of Lecanto, Citrus 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:

1 The requested information and comments below do not necessarily 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.

2 Please submit **4 copies** of all requested information. Please specify if revised information is intended to supplement, or replace, previously submitted information. Please submit all revised plans and reports as a complete package. 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.

3 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.

4 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 be reminded that all calculations must be signed and sealed by the registered professional engineer (or geologist as appropriate) who prepared them.**



The following information is needed in support of the solid waste application [Chapter 62-701, Florida Administrative Code (F A C )]:

1 **Rule 62-701.320(7)(b), F.A.C.** Application Form #62-701.900(1), Part A 4 The WACS ID # for this facility is SWD/09/39859. Please revise this Part accordingly. This comment has been made by the Department on several recent applications submitted by the applicant. Please update your records to reflect this as the DEP ID Number on future applications.

**SECTION E - GENERAL REQUIREMENTS (Rule 62-701.320, F.A.C.):**

2. **Section E.7** Operation of the gas collection and control system will require submittal of an application for permit modification of the operation permit for the facility, including the submittal of the specific operation procedures for gas collection and control system, and issuance of the permit modification by the Department. The proposed changes to the Section 2 and 8 of facility Operation Plan in Attachment L-1 of this application do not provide sufficient detail on the specific operation procedures for the gas collection and control system. However, as indicated in this section, this application is for a permit to construct the gas collection and control system. Therefore modifications to the facility's operation plan will be deferred to the operation permit modification application and not processed as part of this application. **This comment is for informational purposes and does not necessarily require a response other than acknowledgement of the comment.**

3. **Section E.13** Please publish the attached Notice of Application and provide proof of publication to the Department.

**Attachment E-1 - Gas Collection and Control System Construction Drawings (Rule 62-701.320(7)(f), F.A.C.)**

Please provide revised drawings that address the comments provided below, including all necessary details for the construction and operation of the facility. **The drawings will be reviewed in their entirety, as applicable, after the responses to these requests for information are submitted.**

4 Recent discussions with the applicant have indicated potential problems with side slope riser piping at the facility that are currently being investigated. Please revise the design of the gas collection and control system in general and the details of tie-ins to the side slope riser piping specifically, based on the results of the investigation and proposed corrective actions, as applicable.

5 **Drawing 4 of 10**

a. The cross-references for the "header ditch crossing" and "condensate sump" on this sheet appear to be in error. Please verify and revise this sheet, as appropriate.

6 **Drawing 8 of 10**

a Detail 4 This detail does not appear to show the inlet of the 2" condensate line from the blower/flare system. Please verify and revise this detail, as applicable.

**Attachment E-2 - Gas Collection and Control System Technical Specifications  
(Rules 62-701.400(3), (7) and (8), F.A.C.)**

Please revise the Technical Specifications and/or other referenced application documents, as appropriate, to address the following comments and/or inconsistencies

7. Please provide Technical Specifications for the compressed air system

**8 Section 31 20 00 - Trenching and Backfilling:**

a. Part 1.01.D. The statement that, "No classification of type of excavated material will be made " appears inconsistent with specifications for reuse of excavated soils and the disposition of excavated wastes and/or unsuitable soils Please verify and revise this part, as applicable

b. Part 3 04 Please note that dewatering may require an Industrial Waste Permit from the Department. Please contact Ms. Yanisa Angulo, P E , at 813-632-7600 x404, to determine if a permit is required **This comment is for informational purposes only and does not require a response.**

c. Part 3 06 C : The pipe surveying specifications in this part appear inconsistent with those provided in Specification Section 01 50 00 - Part 1.05.C Please verify and revise these sections, as appropriate.

**SECTION O - GAS MANAGEMENT SYSTEM (RULE 62-701.520, F.A.C.):**

9 **Section O.1** Please provide the supporting design calculations for the blower/flare system

10 **Section O.1.b.** While the facility is not subject to NSPS and is not required to install a landfill gas management system in accordance with Rule 62-701.530, F.A.C. at this time, if the applicant chooses to voluntarily install a landfill gas recovery system, then the system must be designed to function as required by Department rule In accordance with Rule 62-701 320(5)(b), F.A.C , the information provided with the application must be of sufficient detail to show how the system will be constructed in order to comply with Department rules Therefore please provide radius of influence calculations and pipe sizing calculations that demonstrate that the system is designed to function as required and revise the narrative in this section accordingly

11 **Section O.4.c:** While the facility is not subject to NSPS at this time and is not required to install a landfill gas management system in accordance with Rule 62-701.530, F.A.C at this time, if the applicant chooses to voluntarily install a landfill gas recovery system, then the system must be designed to function as required by Department rule Please revise the narrative in this section accordingly

12 **Section O.4.e** Since the applicant is installing and operating the gas system on a voluntary basis and therefore may choose not to operate the system in the future, please provide a closure plan for decommissioning and dismantling the system should the applicant choose to not operate the system in the future

13 **Section O.4.f & and Attachment S-1.** Since the applicant is installing and operating the gas system on a voluntary basis and therefore may choose not to operate the system in the future, please revise Attachment S-1 to include closure cost estimates for decommissioning and dismantling the system should the applicant choose to not operate the system in the future

14. **Attachment O-3** Please explain why the default model values used to obtain the landfill gas generation data in Attachment O-3 are different than those used in the June 29, 2006 NSPS Tier 2 report provided

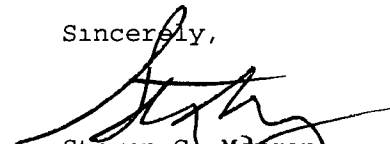
**Please provide all responses that relate to engineering for design and operation, including plan sheets, signed and sealed by a professional engineer. Responses that relate to the facility operations should be included as part of the Operation Plan. All replacement pages should be numbered, and with revision date.**

**This staff assessment is preliminary and is designed to assist in the review of the application prior to final agency action. The comments provided herein are not the final position of the Department and may be subject to revision pursuant to additional information and further review.**

Please respond by **July 6, 2009**, 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 the above schedule, you should develop an alternate timetable for the submission of the requested information for Department review and consideration. 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.

Please provide **4 copies** of your response to this letter as one complete package. If there are points that must be discussed and resolved or you would like to set up a meeting to discuss this letter and subsequent submittals, please contact me at (813) 632-7600 ext 385.

Sincerely,



Steven G. Morgan  
Solid Waste Section  
Southwest District

SM/sgm

Attachment

cc Dominique Bramlett, P E , SCS Engineers, [dbramlett@scsengineers.com](mailto:dbramlett@scsengineers.com)  
Patty Jefferson, Citrus County, [patty\\_jefferson@bocc.citrus.fl.us](mailto:patty_jefferson@bocc.citrus.fl.us)  
Frank Hornbrook, FDEP, Tallahassee (e-mail)  
Susan Pelz, P E , FDEP Tampa (e-mail)

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	21375 - 017
Project Name	CITRUS CENTRAL GAS COLLECTION + CONTROL SYSTEM CONSTRUCTION
Type/Subcode	SG/08 <input checked="" type="radio"/> New <input type="radio"/> Modification <input type="radio"/> Renewal
Fee submitted	\$ 1,000 <input checked="" type="checkbox"/> correct ( ) incorrect
Total Fee Required \$ _____	Need \$ _____ Refund \$ _____

Applicant Information

Name	SUSAN METCALFE		
Role	APPLICANT		
Company	CITRUS CO BOCC		
Address			
City	ON-FILE	Zip Code	
Phone			

Fee verified by S. MORGAN

Application Assigned To S. MORGAN Date 4/24/09



# Citrus Central gas extraction

9/29/08

greenhouse gas project to get GHG credit  
phased construction

minor need to  
of prevent  
to construct/operate

- (1) ~~vertical~~ connect existing <sup>(east)</sup> UCS - clewast side
- pipe to candlestick flare
  - condensate sump - pump back into UCS
  - some above grade & below grade piping
  - modify caps on west side to seal them

(2) vertical extraction wells w/ header  
to SW corner

- flare station near leachate tank
- connect UCS on west side
- construct during operation - extend them vertically as filling increases height

SC08

Not an NSPS design  $\Rightarrow$  (density of wells)

- have gone over design capacity levels  
but not NMOC

Financial Assurance -

- don't need construction cost (closing)
- do need operation & maintenance costs