

Post/it	Date	# of pages
Fax Note R7873	8/14	1
To	Kim Ford	
Fax#	813-744-6125	
From	SUSAN METCALFE	
Phone#	746-5000	

REF 14-091
REF AA-4

REFUND REQUEST #:

4184

APPLICATION FOR REFUND FORM

THE STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL PROTECTION

STATE OF FLORIDA, COUNTY OF CITRUS

Pursuant to the provisions of Section 215.26, or Section _____, Florida Statutes,
I hereby apply for a refund and request that a State Warrant be drawn in favor of:

NAME: CITRUS COUNTY WARRANT
ADDRESS: 110 N APOPKA AVE INVERNESS, FL 34450-4299
FEID OR SS NUMBER:
AMOUNT: \$250.00 DEPOSIT DATE: 06-MAY-98 DEPOSIT: 980113
DOCUMENT NUMBER: SYS RECEIPT#: 203201
REV OBJECT CODE: 2246 SOLID WASTE-CLOSURE

which represents moneys I paid into the State Treasury subject to refund, and to
substantiate such claim the following facts are submitted:

REASON FOR CLAIM: NO FEE DUE

CERTIFIED TRUE AND CORRECT this 14th day of August, 1998

Susan Metcalfe
Applicant's Signature

*Must be completed if authority is other than Section 215.26, Florida Statutes.

(FOR AGENCY USE ONLY)

(1) Agency recommends denial of above claim based on the following facts, including
statutory authority for collection:

OR

(2) Agency recommends approval of above claim and submits the following information
to substantiate such claim. \$250.00 was originally deposited into the State Treasury.
Receipt _____, dated _____.

NAME OF ACCOUNT:

SAMAS ACCOUNT CODE

3720252600137 00000000020000

Statutory Authority for Collection _____

It is requested that payment be made from:

NAME OF ACCOUNT:

SAMAS ACCOUNT CODE

3720252600137 00000022000000

CERTIFIED TRUE AND CORRECT this 24th day of August, 1998

[Signature]
Signature and Title of Authorized Person Assistant District Director

SECTION 215.26 STATES, IN PART: "APPLICATION FOR REFUNDS AS PROVIDED BY THIS SECTION
SHALL BE FILED WITH THE COMPTROLLER, EXCEPT AS OTHERWISE PROVIDED HEREIN, WITHIN 3
YEARS AFTER THE RIGHT TO SUCH REFUND SHALL HAVE ACCRUED ELSE SUCH RIGHT SHALL BE BARRED."
Three years is interpreted as meaning three years from the date of payment into State
Treasury.

Memorandum

Florida Department of
Environmental Protection

TO: Richard Garrity
THROUGH: William Kutash, Administrator, Waste Mgmt.
Robert Butera, P.E., Solid Waste Program
FROM: Kim Ford, P.E., Solid Waste Permitting *for 8/17/98*
DATE: August 14, 1998
SUBJECT: Request for Refund of attached Application Fee
Use of Citrus County Closed Landfill

Please issue a request for refund of the attached application fee. The amount of refund is \$250.00. Listed below is the reason for refund.

The use of the closed landfill does not require a permit or modification of permit, therefore there is no fee due.

Bob

THIS DOES
REQUIRE
CHANGES

to PA

Post # _____ Date 8/14/98 # of pages 1
 Fax Note R7873
 To Kim Ford
 Fax 813-744-6125
 From SUSAN METCALFE
 Phone 746-5000

REF 14-081
 REF AA-4

REFUND REQUEST #: 4184

APPLICATION FOR REFUND FORM

THE STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL PROTECTION

STATE OF FLORIDA, COUNTY OF CITRUS

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 Applicant's Signature

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3720252600137 00000000020000

Statutory Authority for Collection _____

It is requested that payment be made from:

NAME OF ACCOUNT:

SAMAS ACCOUNT CODE

3720252600137 00000022000000

CERTIFIED TRUE AND CORRECT this _____ day of _____, 19____.

Signature and Title of Authorized Person

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Events Scheduled

65 of 90

Site #:	0126601	Name:	CITRUS CO. CENTRAL LF LTC (LFC1)			
Permit #:		Type/Subtype:	SF /MM	Received:	27-APR-1998	
Project #:	001	Name:	CITRUS LANDFILL L-T-C			

> STOP CLOCK: Done

Event	Begin Date	Prd	Due Date	Rmn	Status	End Date
Receive Request	27-APR-1998	1	28-APR-1998		Done	27-APR-1998
Fee Verification	27-APR-1998	2	29-APR-1998		Sufficient	29-APR-1998
Completeness Revie	27-APR-1998	30	27-MAY-1998		Incomplete	21-MAY-1998
Awaiting Addition	21-MAY-1998	45	05-JUL-1998		Received	01-JUL-1998
Completeness Rev	01-JUL-1998	30	31-JUL-1998		Complete	01-JUL-1998
Determine Agenc	01-JUL-1998	90	29-SEP-1998		Exempt	27-JUL-1998
STOP CLOCK	27-JUL-1998	1	28-JUL-1998		Done	27-JUL-1998
Fee refund gre	27-JUL-1998	1	28-JUL-1998		Done	24-AUG-1998
Applicant Not	24-AUG-1998	1	25-AUG-1998		Done	24-AUG-1998
RESET CLOCK	21-MAY-1998	1	22-MAY-1998		Done	21-MAY-1998

Enter actual End Date for Event. DD-MON-YYYY

Count: *7

<Replace>

perMits	Events	Payment	Site	Facility	Party	Reports
----- Permitting Application -----						
+----- SITE Permit -----+						
Site Name: CITRUS_CO._CENTRAL_LF_LTC_(LFC1)						Site #: 0126601
County: CITRUS Comments: RPAs: # Cases:						
+----- Project -----+						
Permit #:		Project #: 001 Logged: 30-APR-1998 CRA #: 22449				
Permit Office: SWD (DISTRICT)		Agency Action: Pending				
Project Name: CITRUS LANDFILL L-T-C		Desc:				
Type/Sub/Des: SF/MM MINOR MODIFICATION		COE #:				
Received: 27-APR-1998		Issued:		Expires:		OGC:
Fee: 250.00		Fee Recd: 250.00		Dele:		Override: NONE
+----- Related Party -----+						
Role: APPLICANT		Begin: 30-APR-1998		End:		
Name: METCALFE, SUSAN J.		Company: CITRUS_COUNTY				
Addr: PO BOX 340						
City: LECANTO		State: FL		Zip: 34460-		Country: U.S.A.
Phone: 352-746-5000		Fax:				
+----- Processors -----+						
Processor: FORD_K		Y Active: 30-APR-1998 Inactive:				
+-----						
Enter Project Name.						
Count: *0						<Replace>

AREA: SWD

Cash Receiving Application
Collection Point Log Remittance

CRAF006A

Tot: \$250.00

SY\$REMT: 247345 Type: CP Recvd Date: 27-APR-1998 Status: RECEIVED
SY\$RCPT: 203201 PNR: Check #: 130255 Amount: 250.00
SSN/FEI#: Name: CITRUS COUNTY WARRANT
First: Middle: Title: Suf:
Address1: 110 N APOPKA AVE Short Comments:
Address2: S-CENTRAL LANDFILL
City: INVERNESS ST: FL Zip: 34450-4299 Country:

P A Y M E N T (S)

	Distr	CL	Object	Payment	Reference#	Applic/	S
			Code/Description.....	Amount.....		Fund	T
							A
SY\$PAYT	Area..						
256782	SWD		002246 SOLID_WASTE-CLO	\$250.00	126601-01	PA PFTF	CO

COMMIT FREQUENTLY

\$250.00 Payment total

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

Count: *1

<Replace>

#4148

FDEP

3804 Coconut Palm Drive, Tampa, FL 33619-8318

FAX

Date:

FAXED
8/14/98

Number of pages including cover sheet:

2

To:

Susan METZALFE

Citrus County

Phone:

352 7465000

Fax phone:

352 5211204

CC:

From:

Kim Ford

Phone:

(813) 744-6100

X 382

Fax phone:

(813) 744-6125

REMARKS:

☐ Urgent

☐ For your review

☒ Reply ASAP

☐ Please comment

PLEASE SIGN & DATE AS SHOWN
ON FORM AND
FAX BACK
FOR \$250 REFUND

TAXI
Kim

DEP 14-081
DBF AA-4

REFUND REQUEST #: 4184

APPLICATION FOR REFUND FORM
THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

STATE OF FLORIDA, COUNTY OF CITRUS

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Transmit Confirmation Report

No. : 014
Receiver : 813525271204
Transmitter : WASTE MGT TAMPA SWDIST
Date : Aug 14 98 14:28
Time : 01'05
Mode : Norm
Pages : 02
Result : OK



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

July 27, 1998

Ms. Susan Metcalfe, P.G.
Citrus County
Solid Waste Management
P. O. Box 340
Lecanto, FL 34460-0340

Re: Firing Range on Closed Landfill
Permit #SF09-211030, Citrus County

Dear Ms. Metcalfe:

The Department has no objection to the firing range improvements described in your June 26, 1998 letter. Upon completion, please provide the completed Certification of Construction Completion Form #62-701.900(2) attached and a topographic drawing with elevations for the entire firing range area.

On all future correspondence, please include Robert Butera on distribution. If you have any questions you may call me at (813) 744-6100, extension 382.

Sincerely,

Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

KBF/ab
Attachment

cc: Ken Saunders, Citrus County
Eber Brown, WTI-Inverness
Robert Butera, P.E., FDEP Tampa
John Morris, P.G., FDEP Tampa



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

DEP Form # 62-701.9002
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: _____ County: _____

Name of Project: _____

Name of Owner: _____

Name of Engineer: _____

Type of Project: _____

Cost: Estimate \$ _____ Actual \$ _____

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

Deviations from Plans and Application Approved by DEP: _____

Address and Telephone No. of Site: _____

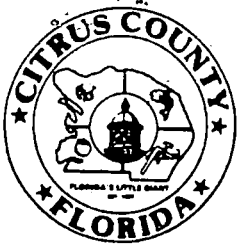
Name(s) of Site Supervisor: _____

Date Site inspection is requested: _____

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.: _____ Dated: _____

Date: _____
Signature of Professional Engineer



BOARD OF COUNTY COMMISSIONERS DEPARTMENT OF PUBLIC WORKS

June 26, 1998

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

Re: Citrus County Central Landfill
Permit No. SC09-211030, Closed 60-Acre Site
Minor Permit Modification Request - Firing Range Area

REPLY TO:

Solid Waste Management
P.O. Box 340
Lecanto, Florida 34460-0340

RECEIVED
JUL 01 1998
Division of Environmental Protection
SOUTHWEST DISTRICT

Dear Mr. Ford:

This is in response to your letter of May 21, 1998 requesting additional information on the proposed modifications to the firing range area on the closed landfill

1. Topographic information is provided on a drawing which shows both December 1997 elevations and May 1998 elevations in the impacted area. The December was prepared from data obtained when the damaged liner was exposed. This demonstrates that four feet of soil was placed above the cap.
2. Construction information is provided on two drawings prepared by Jerry Huston, P.E. for WTI.
3. The foundations analysis is included on the foundation plan sheet.
4. The site plan (8 11/2 x 11) sheet shows the location of the area in question on the entire property. The firing range structure will be placed in the area between the 118-foot and 119-foot elevation, with long axis running east-west.
5. This work will all be performed above the existing grade and in accordance with the drawings. Materials and labor are being donated, therefore no "construction specifications" document other than the drawings have been produced.
6. No explosives are stored onsite.
7. A copy of our letter to Dr. Garrity concerning detonation and thermal treatment of explosives is attached.

Please contact me if you have other questions .

Yours truly,

Susan J. Metcalfe

Susan J. Metcalfe, P.G.
Director

CC: Ken Saunders, Director, Public Works Department
Bob Butera, FDEP, Tampa
Eber Brown, WTI, Inverness
Winnie Schreiber, Division of Forestry, Brooksville

3600 W. SOVEREIGN PATH
LECANTO, FLORIDA 34461

ADMINISTRATION OFFICE
Suite 212
352-527-5477 Phone
352-527-5479 Fax

ENGINEERING DIVISION:
Suite 241
352-527-5446 Phone
352-527-5476 Fax

- Land Section
Suite 205
352-527-5447 Phone
352-527-5459 Fax
- Permits & Compliance Sec.
Suite 204
352-527-5448 Phone
352-527-5319 Fax
- Project Management Sec.
Suite 241
352-527-5449 Phone
352-527-5482 Fax
- Survey Section
Suite 241
352-527-5446 Phone
352-527-5482 Fax

1300 S. LECANTO HIGHWAY
LECANTO, FLORIDA 34461

- MAINTENANCE OPERATIONS:
- Facilities Maint. Section
PO Box 143
Lecanto, FL 34460
352-527-0333 Phone
352-527-0654 Fax
 - Fleet Management Section
PO Box 215
Lecanto, FL 34460
352-746-6888 Phone
352-746-5011 Fax

AQUATIC SERVICES
PO Box 440
Lecanto, FL 34460
352-746-2694 Phone
352-746-9189 Fax

ROAD MAINTENANCE
PO Box 167
Lecanto, FL 34460
352-746-4107 Phone
352-746-1203 Fax

UTILITIES DIVISION
PO Box 440
Lecanto, FL 34460
352-746-2694 Phone
352-746-1676 Fax

SOLID WASTE MANAGEMENT
230 W. Gulf to Lake Highway
PO Box 340
Lecanto, FL 34460
352-746-5000 Phone
352-527-1204 Fax

STATE ROAD No. 44 100.00' RIGHT-OF-WAY

60 ACRE LANDFILL SITE

80 ACRE LANDFILL SITE

D.E.P.
JUL - 1 1998
SOUTHWEST DISTRICT
TAMPA

N. 1641979.8623
E 2387.3967

JERRY C. HUSTON, PE, CONSULTING ENGINEER

6326 W. Holiday Street
Homosassa, Florida 34446
(352) 628-6350

June 24, 1998

Mr. Kim Ford, PE
Solid Waste Section
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Re: Firing Range on Closed Landfill
Modification No. 126601-001-SF
Permit No.: SF09-211030, Citrus County

Dear Mr. Ford;

I have been requested by Mr. Eber E. Brown, Director of the Criminal Justice Academy to respond to your letter of 5-21-98 regarding the referenced project.

Plans are submitted for a proposed elevated wooden walkway to be supported on a poured in place concrete slab.

The slab will be placed at existing grade and will represent no significant loading impact on the liner, which based on information supplied by the County officials is approximately 3 feet below grade.

In my opinion this slab presents no threat to the landfill liner.

Very truly yours

Jerry C. Huston, PE

#31656

Date

Copy: Mr. Eber Brown, Criminal Justice
Copy: Susan Metcalf

JERRY C. HUSTON, PE, CONSULTING ENGINEER

6326 W. Holiday Street
Homosassa, Florida 34446
(352) 628-6350

PLAN NOTES:

FOUNDATION DESIGN

- 6 inch slab at grade/soil bearing
capacity determined to be a minimum
of 1500 psf
- Maximum column loading
Dead load @-----108 lbs (Wood Structure)
Live load @ 50 psf-----600 lbs
Total Load-----708 lbs/column
- Load Transfer to Slab
Spread over a minimum of 1 Sq.Ft. @
708 lbs.—Less than 1500 lbs/Sq.Ft. and
bearing pressure safety factor = $1500/708 = 2.12$
The above analysis shows insignificant
settlement potential and no threat to liner.


Jerry C. Huston, PE #31656

Date



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

June 26, 1998

Ms. Susan J. Metcalfe, P.G.
Citrus County Solid Waste Management
P.O. Box 340
Lecanto, FL 34460-0340

Re: Citrus Central Landfill, Long-Term Care Permit Renewal
Pending Permit No. 126601-002-SF, Citrus County

Dear Ms. Metcalfe:

This letter is to acknowledge that your submittal entitled *Closed Landfill Long-Term Care Permit Renewal Application* for the referenced facility was received by the Department on May 28, 1998. This letter constitutes notice that a permit will be required for your project pursuant to Chapter 403, Florida Statutes.

Your application for a permit is incomplete. This letter represents the first request for additional information in support of your permit application. Evaluation of your proposed project will be delayed until all requested information has been received. The following information is needed in support of the solid waste application [Chapter 62-701, Florida Administrative Code (F.A.C.)] and is referenced to sections of the application permit and/or Specific Conditions of the current Long-Term Care or Operations Permits:

1. B.18.: The permit application identifies 12 monitor wells. Specific Condition No. 34 of Permit No. SO09-274381 lists 14 wells in the ground water monitoring plan for the facility. Please clarify the number of monitor wells.
2. N.3.d./N.5.f.: Gas monitoring requirements are identified in Specific Condition No. 4 of Permit No. SF09-211030 and Specific Condition Nos. 18 through 20 of Permit No. SO09-274381. The results of quarterly monitoring of the gas probe locations indicate several areas along the eastern boundary of the closed 60-acre landfill area that are reported at 100 percent of the LEL for methane. These values are not considered sufficient to trigger gas remediation activities as they occur along the boundary that is contiguous with the active 80-acre landfill. However the Department will continue to review gas monitoring data along the landfill boundaries and within site structures. Please provide a summary of actual or potential gas migration at the closed 60-acre landfill, and verify that procedures described in Appendix G of the Citrus County Central Landfill Operations Plan reflect currently implemented gas monitoring activities.
3. N.3.e.: Exhibit G of the permit renewal application, entitled *Assessment of the Effectiveness of Landfill Closure Design and Maintenance*, is incomplete. Definitive, conclusive statements and recommendations regarding existing conditions and any corrective actions, if required, must be signed and sealed by a Professional Engineer. Items requiring clarification include gas migration evaluation and the condition of the cover (top liner and/or 2-foot soil cover). Please avoid the use of such terms as "generally". Please provide a schedule of general maintenance activities conducted at the closed 60-acre landfill.
4. N.5.e.: Ground water monitoring requirements are identified in Specific Condition No. 8 of Permit No. SF09-211030 and Specific Condition Nos. 29 through 30 and Nos. 34 through 40 of Permit No. SO09-274381. Please indicate if the Conclusions and Recommendations presented in the document entitled *Contamination Assessment Report, Citrus County Central Landfill* (CH2M-Hill, April 1996) and if the Conclusions presented

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

in the document entitled *Two-Year Monitoring Report, Citrus County Central Landfill* (CH2M-Hill, August 1997) are representative of current conditions at the closed 60-acre landfill. Please provide a discussion of water quality data collected from new downgradient detection wells MW-8 and MW-9.

5. O.6.: The reference to Figure 3 is unclear. Should the application form reference Figure 1 which is discussed in Section 1.1.7? It is understood that anticipated uses such as the proposed soil stockpile, proposed yard waste area, proposed leachate disposal sprayfield, proposed citizen waste drop off and recycle alley, and proposed administrative offices, facilities and parking are subject to change. Please be advised that all future uses of the closed 60-acre landfill require Department approval prior to implementation. Please provide a response to the May 21, 1998 correspondence from Mr. Kim Ford, P.E., regarding the permit modification to construct a firing range at the southwest corner of the facility (attached).
6. Exhibit F: The information in this Exhibit fulfills the requirements of Specific Condition No. 7 of Permit No. SF09-211030. Please provide an update of the status of the investigation into the flow meter sizing and related affects of flow volume estimates. A definitive statement regarding the need to replace the flow meter is needed. Please provide the leachate generation reports for the months of January through June 1998 as required by Specific Condition No. 17.c. of Permit No. SO09-274381.

Please provide three copies of all permit application responses to the Department for review. Please provide all responses that relate to engineering or geological interpretation signed and sealed by the respective Florida-licensed professional.

"NOTICE! Pursuant to the provisions of Section 120.600, F.S. and Chapter 62-4.070(5), F.A.C., if the Department does not receive a complete response to this request for information within 30 days of the date of this letter, the Department may issue a final order denying your application. You need to **respond within 30 days** after you 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. Failure to comply with a time table accepted by the Department may 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 may reapply as soon as the requested information is available."

If you have any questions about this request for additional information please contact me at (813) 744-6100, extension 336.

Sincerely,



John R. Morris, P.G.
Solid Waste Section

Attachment

cc: Kou-Roung Chang, Ph.D., P.E., CH2M-Hill, 3011 S.W. Williston Road,
Gainesville, Florida 32608
Robert Butera, P.E., FDEP
Kim Ford, P.E., FDEP
Steve Morgan, FDEP



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

May 21, 1998

Ms. Susan Metcalfe, P.G.
Citrus County
Solid Waste Management
P O Box 340
Lecanto, FL 34460-0340

Re: Firing Range on Closed Landfill
Modification No.: 126601-001-SF
Permit Nos.: SF09-211030, Citrus County

Dear Ms. Metcalfe:

This is to acknowledge receipt of your request for a permit modification received April 27, 1998 to construct a firing range on the Closed Citrus County Central Landfill.

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

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

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

1. Recent topographic information with elevations in the vicinity of all related activities and structures.
2. Description of construction and related activities to demonstrate compliance with the requirements of F.A.C. Rule 62-701.610(7) for the use of closed landfill areas.
3. Foundation analysis to demonstrate the structure will not affect the integrity of the closed landfill cover/liner.
4. Site plans drawn to scale showing all related work, existing and proposed elevations, and the closed landfill cover/liner.

Ms. Susan Metcalfe, P.G.
Citrus County

May 21, 1998
Page Two

5. Project specifications with construction methods to demonstrate the integrity of the closed landfill cover/liner will not be affected.
6. Confirmation that explosives will not be stored on site.
7. Response to DEP's September 18, 1997 letter, and description to demonstrate compliance with FAC Rule 62-730.320 regarding detonation and thermal treatment of explosives (attachments).

Please provide all responses signed and sealed by a professional engineer.

"NOTICE! Pursuant to the provisions of Section 120.60, F.S. if the Department does not receive a response to this request for information within 90 days of the date of this letter, the Department may issue a final order denying your application. You need to respond within 30 days after you receive this letter, responding to as many of the information requests as possible and indicating when a response to any unanswered questions will be submitted. If the response will require longer than 30 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 timely response. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant can reapply as soon as the requested information is available."

Please submit your response to this letter as one complete package. On all future correspondence, please include Robert Butera on distribution. If you have any questions you may call me at (813) 744-6100, extension 382.

Sincerely,



Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

KBF/ab
Attachments

cc: Ken Saunders, Citrus County
LB Robert Butera, P.E., FDEP Tampa



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

CERTIFIED MAIL
RETURN RECEIPT

SEP 18 1997

Ms. Susan J. Metcalfe
Director, Div. of Solid Waste Management
Citrus County Solid Waste Management •
Post Office Box 340
LeCanto, FL 34461-0340

Re: Emergency Detonation or Thermal Treatment of Certain
Hazardous Waste, 62-730.320 FAC (enclosed)

Dear Ms. Susan Metcalfe:

The purpose of this letter is to encourage active coordination between the Solid Waste Operation at landfills (where treatment of the referenced materials occur), and the persons (Fire Department, Bomb Squad, etc.) responsible for the safe detonation of explosives and this Department.

It has been brought to my attention by Waste Management staff that the referenced treatment may be occurring at some solid waste landfills permitted by this Department. The Department is concerned that the referenced treatment may be occurring at locations in the landfill which may be in close proximity to methane gases escaping from passive vents and/or flares at actively vented landfills. Two recent explosions occurring at leachate sumps at solid waste landfills resulted in injury to personnel. These explosions occurred at pump stations where leachate was being removed from the sumps and the methane gases contained within the pump station were exposed to an ignition source. In addition the Department is concerned with landfill fires, possible damage to HDPE liners utilized in closures and depressions in intermediate cover exposing waste.

The Department requests that the responsible solid waste operation submit (within 90 days of receipt of this letter) a scale site plan of the facility identifying the specific location where the referenced treatment will occur. You are requested to include sites where detonations occur on properties adjacent to solid waste landfills. If no detonations occur at your facility please respond accordingly. The site plan should include the locations of flares, passive vents, leachate sumps, all occupied buildings on site, and their respective distances from the location of these detonations.

SEP 18 1997

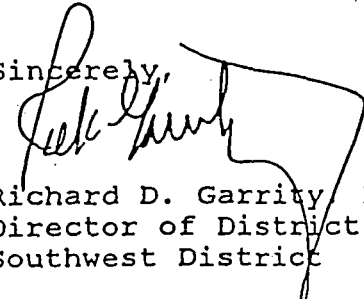
Ms. Susan J. Metcalfe
Citrus County Solid Waste Management

The Department's Solid Waste and Hazardous Waste Sections will review these submittals and respond to the Solid Waste Permittee as to the approved locations for that particular facility. The Solid Waste Section should be contacted for authorization for all further modifications to the gas vent, building, and sump relocations.

In accordance with 62-730.320(1) "Certain hazardous wastes, due to their origin, age, and storage conditions have become a hazard to their surroundings. Because of the flammable, shock sensitive and explosive nature of the wastes, there is an immediate danger and imminent hazard to persons and property in the surrounding area. Therefore an authorization is granted for the emergency detonation or treatment of reactive hazardous wastes, as defined in FAC Chapter 62-730." The Department requests that all authorizations be requested in accordance with 62-730.320(1)(a) which states "The person having custody of the waste contacts the Department and obtains oral or written permission prior to the detonation or treatment."

The authorized person for detonating the waste such as the Fire Department, Bomb Squad, etc. should coordinate with the solid waste operation to assure all further detonations will occur at the Department approved locations. The Department requests your cooperation on this matter and thanks you in advance for protecting the environment and providing a safe area within the landfill. If you have any questions concerning this letter you may contact Bob Butera in the Solid Waste Section at 813-744-6100, Ext. 451 or William Crawford in the Hazardous Waste Section at 813-744-6100, Ext. 372.

Sincerely,



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

Attachment

cc: Robert Butera, P.E., FDEP
William Crawford, FDEP
Kim Ford, P.E., FDEP
Danielle Nichols, FDEP
Allison Amram, P.G., FDEP
Randy Messer, Code Enforcement, Citrus County

take action within the 20 day period shall constitute final agency action to not release the information and the requestor may seek judicial review provided below.

(7) The requestor or the party asserting the claim of trade secret or confidential records may file an action in circuit court pursuant to Section 119.11, F.S.

Specific Authority: 403.704, 403.722, F.S.

Law Implemented: 403.704, 403.722, F.S.

History: New 7-9-82; Formerly 17-30.31; Amended 9-23-87, 6-28-88, Formerly 17-30.310, Amended 10-7-93, Formerly 17-730.310.

62-730.320 Emergency Detonation or Thermal Treatment of Certain Hazardous Waste

(1) Certain hazardous wastes, due to their origin, age, and storage conditions have become a hazard to their surroundings. Because of the flammable, shock sensitive and explosive nature of the wastes, there is an immediate danger and imminent hazard to persons and property in the surrounding area. Therefore, an authorization is granted for the emergency detonation or treatment of reactive hazardous wastes, as defined in F.A.C. Chapter 62-730, provided:

(a) The person having custody of the waste contacts the Department and obtains oral or written permission prior to detonation or treatment. If the permission is oral it must be followed within five days by a written order. Written orders shall be accompanied by the publication of public notice.

(b) The waste is highly reactive, shock sensitive, or explosive and can only be safely disposed of through its prompt detonation or treatment.

(c) The type and amount of waste to be detonated is specified to the Department. Only those wastes specified may be disposed of under this permit.

(d) The detonation or treatment is conducted or supervised by local law enforcement officials, bomb squads, or other officials or agencies experienced in the handling and disposal of explosives.

(e) The time and place of the detonation or treatment is specified in the notice to the Department.

(f) The procedures for the detonation or treatment is specified in the notice to the Department.

(g) Permission granted under this rule shall not exceed 90 days.

(h) Permission granted under this rule shall include all applicable requirements of Chapter 62-730 to the extent possible and not inconsistent with the emergency situation.

(2) This authority shall be subject to the following specific conditions:

62-730.310(6) (cont'd.) - 62-730.320(2)

(a) All other local, state, and federal approvals and licenses required for the activities allowed in this authorization shall be obtained.

(b) Visible residual materials shall be recovered from the site and properly disposed of in accordance with Department rules.

(c) Adequate fire protection to assure confinement and control of any fire resulting from the operation shall be provided.

(d) The local Department representative or their designee shall be notified and may be present to observe the treatment or detonation.

(e) Prior to treatment or detonation, the site shall be secured and no site access allowed except by authorized personnel. The area around the site shall be visually inspected to assure that no unauthorized personnel are present. The securing and inspection of the site shall be made to at least the following distances:

POUNDS OF WASTE EXPLOSIVE	MINIMUM DISTANCE
0 to 100	204 meters (670 feet)
101 to 1,000	380 meters (1250 feet)
1,001 to 10,000	530 meters (1730 feet)
10,001 to 30,000	690 meters (2260 feet)

(f) Thermal treatment or detonation shall be conducted only at the times and place specified in the permittee's notice to the Department.

(g) The Department may require, as a condition of its approval, that soil sampling be conducted before and after the detonation or treatment.

(h) Within 30 days of the emergency detonation or thermal treatment, the authorized person shall submit to the Department a complete written summary of the detonation or treatment which shall include actual procedures used, disposition of any residues from the process, and other pertinent information.

Specific Authority: 403.704, 403.721, F.S.

Law Implemented: 403.061, 403.704, 403.721, 403.726, F.S.

History: New 9-30-85; Formerly 17-30.32, 17-30.320, Formerly 17-730.320, Amended 1-5-95.

62-730.330 Research Development and Demonstration Permits.

(1) The Department may issue a research, development, and demonstration permit for any hazardous waste treatment facility which proposes to utilize an innovative and experimental hazardous waste treatment technology or process for which permit standards for such experimental activity

62-730.320(2)(a) - 62-730.330(1)

Effective 9-7-95

Kim - FYI

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHWEST DISTRICT


CONVERSATION RECORD

Date 6/15/98 Subject Old closed 60 ac cost ests
Time 325 Permit No. _____
County _____
M Susan Mitcalfe Telephone No. 352-746-5000

Representing _____
☐ Phoned Me ☒ Was Called ☐ Scheduled Meeting ☐ Unscheduled Meeting
Other Individuals Involved in Conversation/Meeting _____

Summary of Conversation/Meeting _____
- ~~Is~~ Is the May 1998 LTC Renewal by CH₂MHill
intended to be the 1998 cost est. submittal? NO
(ests are not due until Sept. 1998)
- They will submit 1998 estimates in September.

(continue on another
sheet, if necessary)

Signature 

Title PE I

Brian

July Review
CITRUS COST EST

THY for

8/3/98



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

May 21, 1998

Ms. Susan Metcalfe, P.G.
Citrus County
Solid Waste Management
P O Box 340
Lecanto, FL 34460-0340

Re: Firing Range on Closed Landfill
Modification No.: 126601-001-SF
Permit Nos.: SF09-211030, Citrus County

Dear Ms. Metcalfe:

This is to acknowledge receipt of your request for a permit modification received April 27, 1998 to construct a firing range on the Closed Citrus County Central Landfill.

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

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

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

- ✓ 1. Recent topographic information with elevations in the vicinity of all related activities and structures.
2. Description of construction and related activities to demonstrate compliance with the requirements of F.A.C. Rule 62-701.610(7) for the use of closed landfill areas.
- ✓ 3. Foundation analysis to demonstrate the structure will not affect the integrity of the closed landfill cover/liner.
- ✓ 4. Site plans drawn to scale showing all related work, existing and proposed elevations, and the closed landfill cover/liner.

Ms. Susan Metcalfe, P.G.
Citrus County

May 21, 1998
Page Two

5. Project specifications with construction methods to demonstrate the integrity of the closed landfill cover/liner will not be affected.
6. Confirmation that explosives will not be stored on site.
7. Response to DEP's September 18, 1997 letter, and description to demonstrate compliance with FAC Rule 62-730.320 regarding detonation and thermal treatment of explosives (attachments).

Please provide all responses signed and sealed by a professional engineer.

"NOTICE! Pursuant to the provisions of Section 120.60, F.S. if the Department does not receive a response to this request for information within 90 days of the date of this letter, the Department may issue a final order denying your application. You need to respond within 30 days after you receive this letter, responding to as many of the information requests as possible and indicating when a response to any unanswered questions will be submitted. If the response will require longer than 30 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 timely response. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant can reapply as soon as the requested information is available."

Please submit your response to this letter as one complete package. On all future correspondence, please include Robert Butera on distribution. If you have any questions you may call me at (813) 744-6100, extension 382.

Sincerely,



Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

KBF/ab
Attachments

cc: Ken Saunders, Citrus County
CB Robert Butera, P.E., FDEP Tampa



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
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CERTIFIED MAIL
RETURN RECEIPT

SEP 18 1997

Ms. Susan J. Metcalfe
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Citrus County Solid Waste Management
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The Department requests that the responsible solid waste operation submit (within 90 days of receipt of this letter) a scale site plan of the facility identifying the specific location where the referenced treatment will occur. You are requested to include sites where detonations occur on properties adjacent to solid waste landfills. If no detonations occur at your facility please respond accordingly. The site plan should include the locations of flares, passive vents, leachate sumps, all occupied buildings on site, and their respective distances from the location of these detonations.

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

Printed on recycled paper.

SEP 18 1997

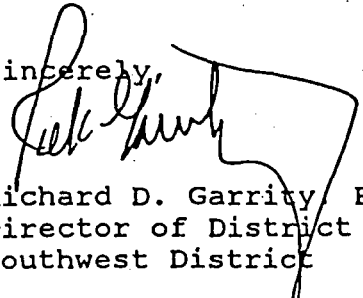
Ms. Susan J. Metcalfe
Citrus County Solid Waste Management

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

Attachment

cc: Robert Butera, P.E., FDEP
William Crawford, FDEP
Kim Ford, P.E., FDEP
Danielle Nichols, FDEP
Allison Amram, P.G., FDEP
Randy Messer, Code Enforcement, Citrus County

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62-730.310(6) (cont'd.) - 62-730.320(2)

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- (d) The local Department representative or their designee shall be notified and may be present to observe the treatment or detonation.
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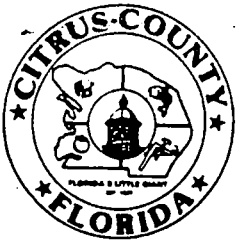
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Law Implemented: 403.061, 403.704, 403.721, 403.726, F.S.
History: New 9-30-85; Formerly 17-30.32, 17-30.320, Formerly 17-730.320, Amended 1-5-95.

62-730.330 Research Development and Demonstration Permits.

- (1) The Department may issue a research, development, and demonstration permit for any hazardous waste treatment facility which proposes to utilize an innovative and experimental hazardous waste treatment technology or process for which permit standards for such experimental activity

62-730.320(2)(a) - 62-730.330(1)

Effective 9-7-95



BOARD OF COUNTY COMMISSIONERS

DEPARTMENT OF PUBLIC WORKS

REPLY TO:

Solid Waste Management
P.O. Box 340
Lecanto, Florida 34460-0340

April 28, 1998

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

Re: Citrus County Central Landfill
Permit No. SC09-211030, Closed 60-Acre Site
Minor Permit Modification Request - Firing Range Area

Dear Mr. Ford:

This is a follow-up to our phone conversation today and a supplement to the April 20 application for a minor permit modification for construction of a training structure for the firing range area on the closed landfill.

There is a change to the proposed structure design. First the orientation will be turned 90 degrees, facing south rather than west, with the long dimension running east-west.. This will still result in having a dirt berm behind the targets. It will simplify construction in that the foundation will be level; that area is sloped from south to north for drainage.

This project will result in reuse of about 250 large off-road tires, a major benefit in the recycling hierarchy. If the training facility is ever abandoned, WTI will be responsible for removing and properly disposing of the structures (including tires) and any contaminated soil.

The facility will be used not only by Citrus County law enforcement trainees, but it has been recommended that this be used as a regional training site for several surrounding counties. WTI personnel are eager to begin the project and can be available to answer questions you may have during your review.

3600 W. SOVEREIGN PATH
LECANTO, FLORIDA 34461

ADMINISTRATION OFFICE
Suite 212
352-527-5477 Phone
352-527-5479 Fax

ENGINEERING DIVISION:
Suite 241
352-527-5446 Phone
352-527-5476 Fax

- Land Section
Suite 205
352-527-5447 Phone
352-527-5459 Fax
- Permits & Compliance Sec.
Suite 204
352-527-5448 Phone
352-527-5319 Fax
- Project Management Sec.
Suite 241
352-527-5449 Phone
352-527-5482 Fax
- Survey Section
Suite 241
352-527-5446 Phone
352-527-5482 Fax

1300 S. LECANTO HIGHWAY
LECANTO, FLORIDA 34461

MAINTENANCE OPERATIONS:

- Facilities Maint. Section
PO Box 143
Lecanto, FL 34460
352-527-0333 Phone
352-527-0654 Fax
- Fleet Management Section
PO Box 215
Lecanto, FL 34460
352-746-6888 Phone
352-746-5011 Fax

AQUATIC SERVICES

PO Box 440
Lecanto, FL 34460
352-746-2694 Phone
352-746-9189 Fax

ROAD MAINTENANCE

PO Box 167
Lecanto, FL 34460
352-746-4107 Phone
352-746-1203 Fax

UTILITIES DIVISION

PO Box 440
Lecanto, FL 34460
352-746-2694 Phone
352-746-1676 Fax

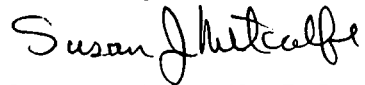
SOLID WASTE MANAGEMENT

230 W. Gulf to Lake Highway
PO Box 340
Lecanto, FL 34460
352-746-5000 Phone
352-527-1204 Fax

Kim Ford
April 28, 1998
Page 2

Please contact me if you have other questions .

Yours truly,

A handwritten signature in cursive script that reads "Susan J. Metcalfe".

Susan J. Metcalfe, P.G.
Director

CC: Ken Saunders, Director, Public Works Department
Bob Butera, FDEP, Tampa
Eber Brown, WTI, Inverness
Winnie Schreiber, Division of Forestry, Brooksville

RECEIVED

MAY 04 1998
Department of Environmental Protection
BY SOUTHWEST DISTRICT

SOUTHWEST DISTRICT
FDEP

Solid Waste Program
Permitting Application

New Site

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

Existing Site

Site ID:	126601-001
Project Name:	CITRUS LANDFILL L-T-C
Type/Subcode:	SE / MM
Fee Submitted:	250 (<input checked="" type="checkbox"/>) correct () incorrect
Fee Refund \$	_____
Fee Request \$	_____

Related Party

Role:	Applicant
Name:	CITRUS COUNTY
Company:	
Street:	PO BOX 340
City:	LELAND FL
Zip Code:	34460
Phone:	(352) 7465000

Distribution Date: _____

Fee Checked By: K FORD

Date: 4/29/98

7000

STATE OF FLORIDA
COUNTY OF CITRUS
INVERNESS, FLORIDA

County Warrant

130255

DEPARTMENT	ACCOUNT	PURCH ORDER	INVOICE NUMBER	AMOUNT	DESCRIPTION
5216	54912		PERMIT	250.00	MINOR PERMIT MODIFICATION
<div>RECEIVED APR 27 1998 Department of Environmental Protection SOUTHWEST DISTRICT BY _____</div>					

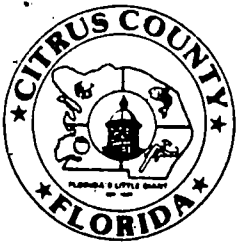
0548.4 DEPT OF ENVIRONMENTAL PROTECTION

PLEASE DETACH
BEFORE DEPOSITING ↓

STATE OF FLORIDA County Warrant 110 N. APOPKA AVENUE INVERNESS, FLORIDA 34450-4299		CITRUS COUNTY ACCOUNTS PAYABLE SUN TRUST BANK INVERNESS, FLORIDA VOID AFTER 90 DAYS 63-115 631	130255 CHECK DATE 130255 04/14/98
PAY TO THE ORDER OF DEPT OF ENVIRONMENTAL PROTECTION		AMOUNT *****250.00**	
TWO HUNDRED FIFTY DOLLARS & ZERO CENTS		<div>Handwritten signatures: <i>Harry Bastille</i> (Chairman, Board of County Commissioners) and <i>Betty Strifer</i> (Clerk and Auditor, Citrus County). Seal: CITRUS COUNTY COMMISSIONERS SEAL</div>	

5/2/98

[Redacted area]



BOARD OF COUNTY COMMISSIONERS

DEPARTMENT OF PUBLIC WORKS

3600 W. SOVEREIGN PATH
LECANTO, FLORIDA 34461

ADMINISTRATION OFFICE
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SOLID WASTE MANAGEMENT
230 W. Gulf to Lake Highway
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Lecanto, FL 34460
352-746-5000 Phone
352-527-1204 Fax

April 20, 1998

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

Re: Citrus County Central Landfill
Permit No. SC09-211030, Closed 60-Acre Site
Minor Permit Modification Request - Firing Range Area

Dear Mr. Ford:

As you know, the closed 60-acre landfill site is a sublease to the County from the Division of Forestry which operates the surrounding Withlacoochee State Forest for the Division of State Lands and the TITF. The current sublease includes 54 acres of the 60-acre parcel; the Citrus County School Board (Withlachochee Technical Institute) holds the sublease on a 6-acre square parcel in the far southwest corner of the old landfill. That parcel is currently used by the law enforcement training program as a small firearms and physical training area.

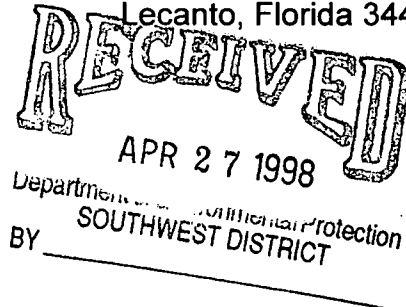
Because the Citrus County Board of County Commissioners is the FDEP permit holder for the closed landfill, we are requesting a minor permit modification for the permit No. SC09-211030 for activities and facilities that Withlacoochee Tech. wishes to do in their sublease area. Enclosed is a check in the amount of \$250 as the fee for this permit modification. Also enclosed, are four sketches of the proposed structure. The locations of the sublease area and the proposed structure are shown on two maps of the site.

We understand that the structure will be used for building entry training. There are three subunits with walls built of tires, a front wall with doors and a balcony for the instructor/observer. The back wall of the structure would either be the existing earth berm or another tire wall. Any fill material needed for the area would be provided by the landfill. All other construction would be the responsibility of Withlacoochee Tech.

The contact at Withlacoochee Technical Institute is Eber Brown, WTI, 1201 West Main St., Inverness, FL 34450. His telephone number is (352)726-2430. You may

REPLY TO:

Solid Waste Management
P.O. Box 340
Lecanto, Florida 34460-0340

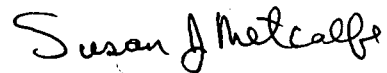


Kim Ford
April 20, 1998
Page 2

wish to contact him directly for additional information on the proposed structure, its construction and use.

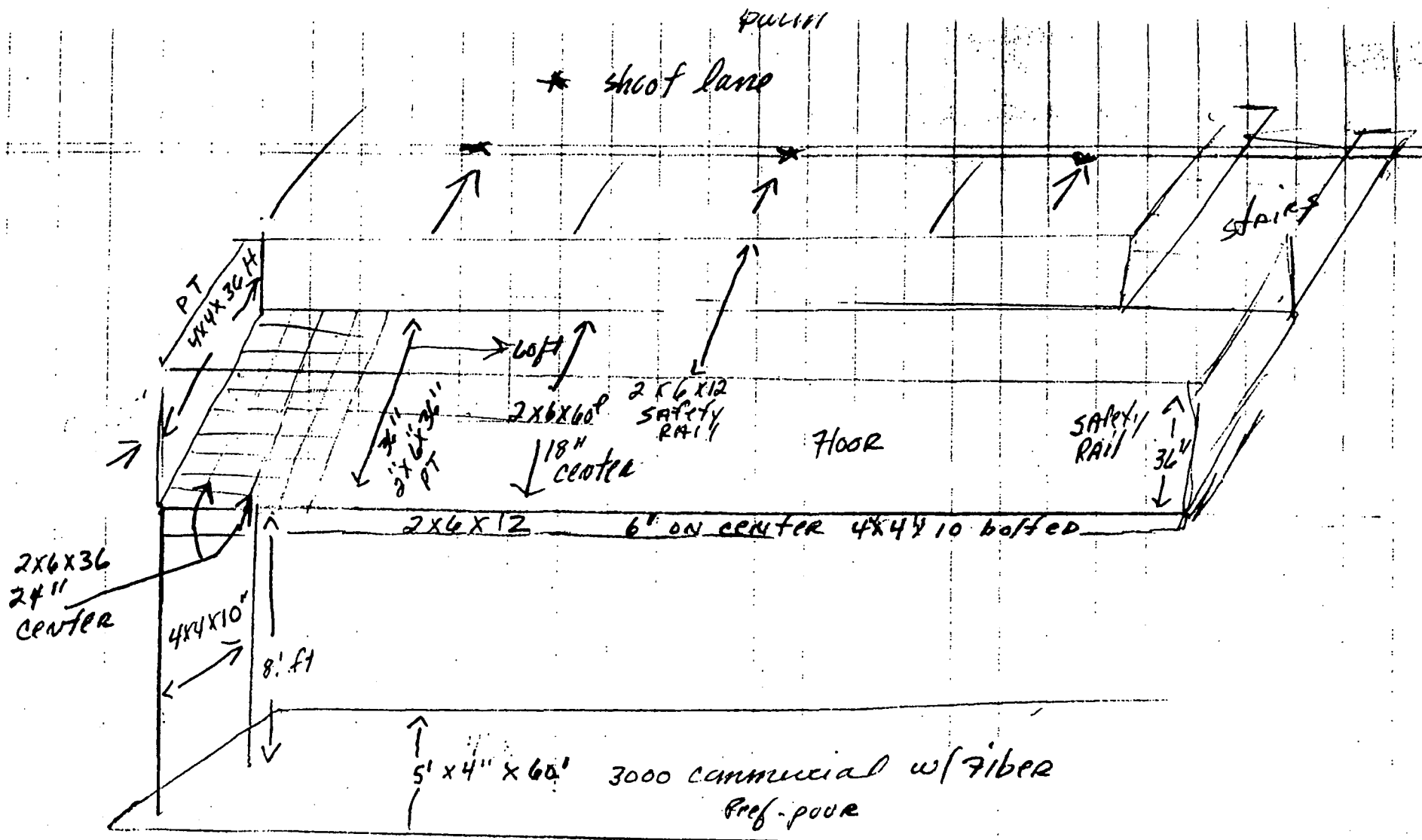
Please contact me if you have other questions .

Yours truly,

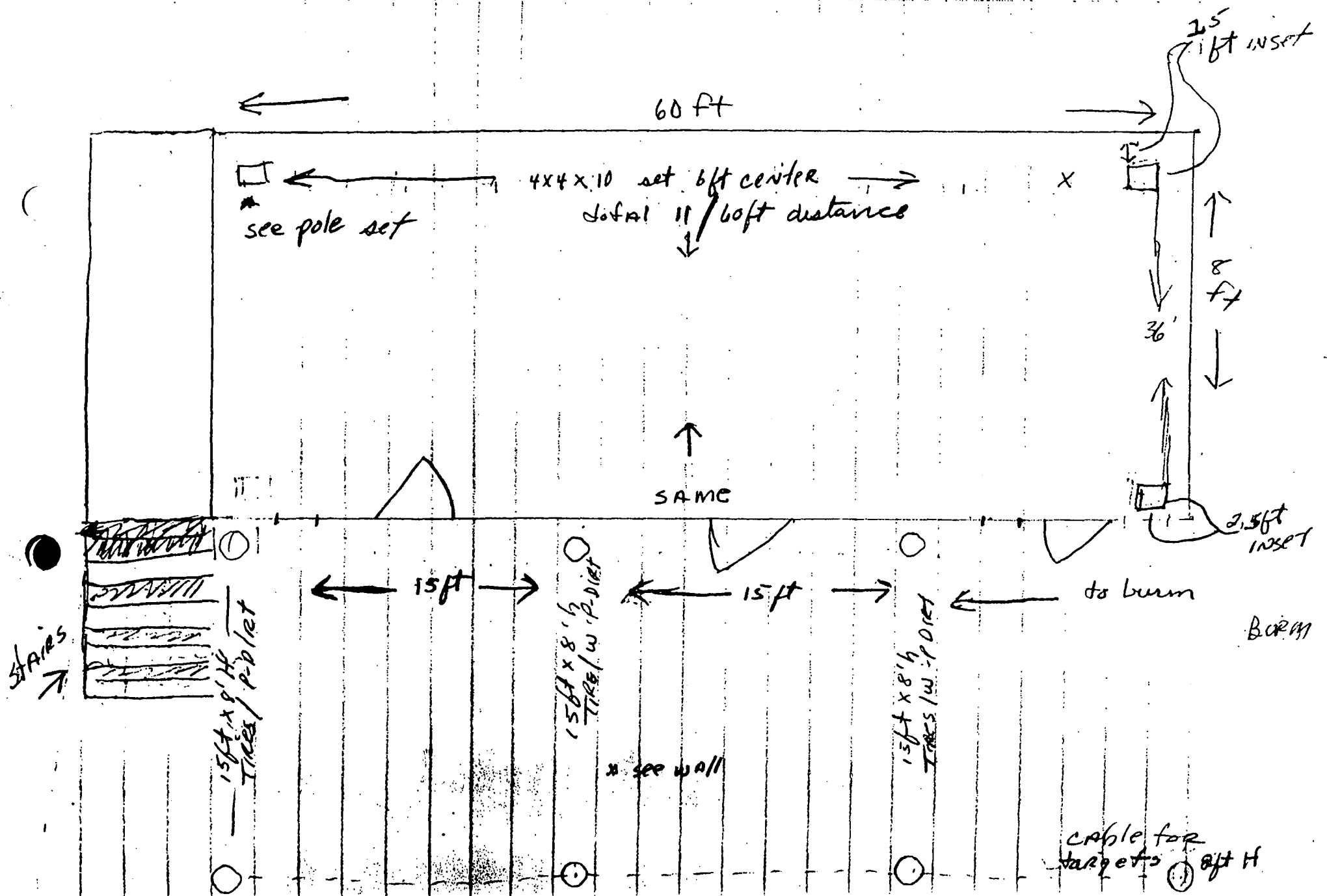
A handwritten signature in cursive script that reads "Susan J. Metcalfe".

Susan J. Metcalfe, P.G.
Director

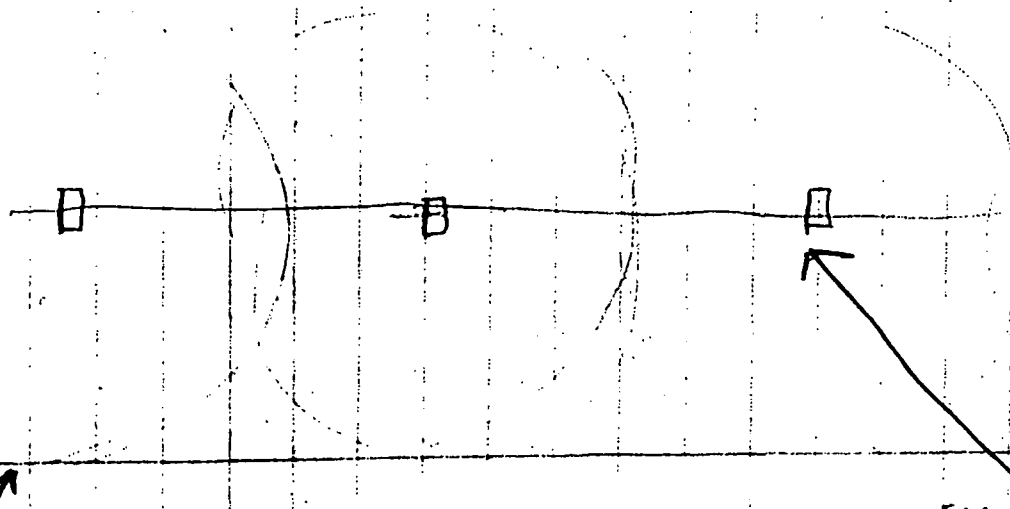
CC: Ken Saunders, Director, Public Works Department
Bob Butera, FDEP, Tampa
Eber Brown, WTI, Inverness
Winnie Schreiber, Division of Forestry, Brooksville



OVERVIEW

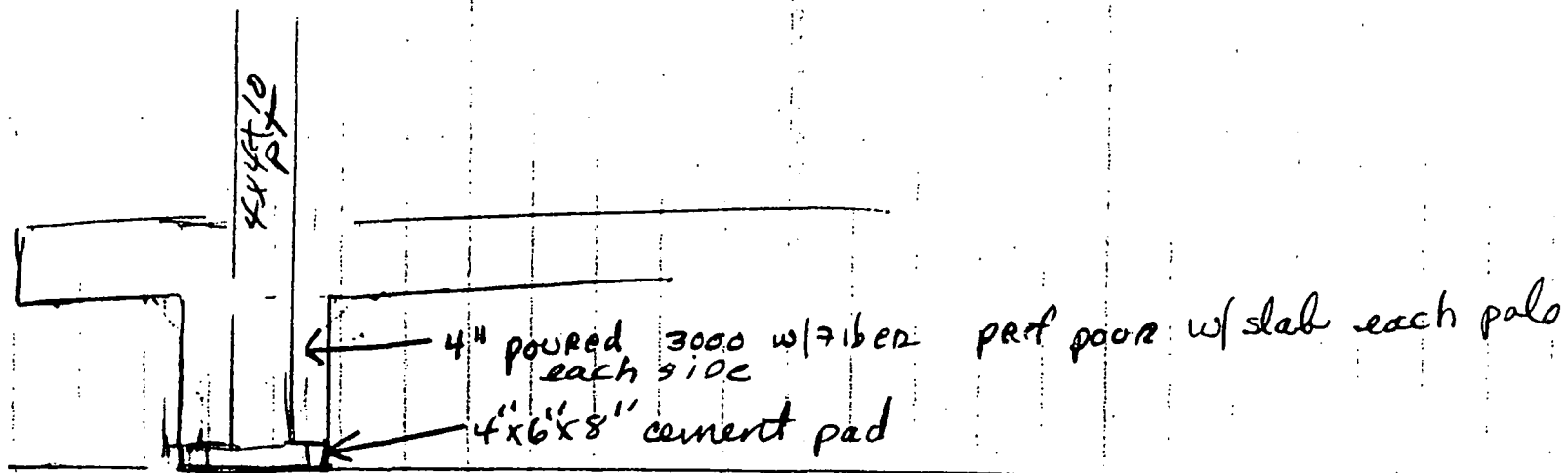


8' H X 40" W X 15' L



use old tires (truck-semi) fill & pack with dirt
encase 2x4s to each tire to lock wall
w/ cable.

wall requires 30" build up. 2 ft depth



site prep:

D: 30" x 8'W x 60' 4" solid pack, on top of existing grade
 pole set 30" depth excavated 4" slab. w/ 4" sides poured.
 slab a structure to run with existing grade for
 drainage

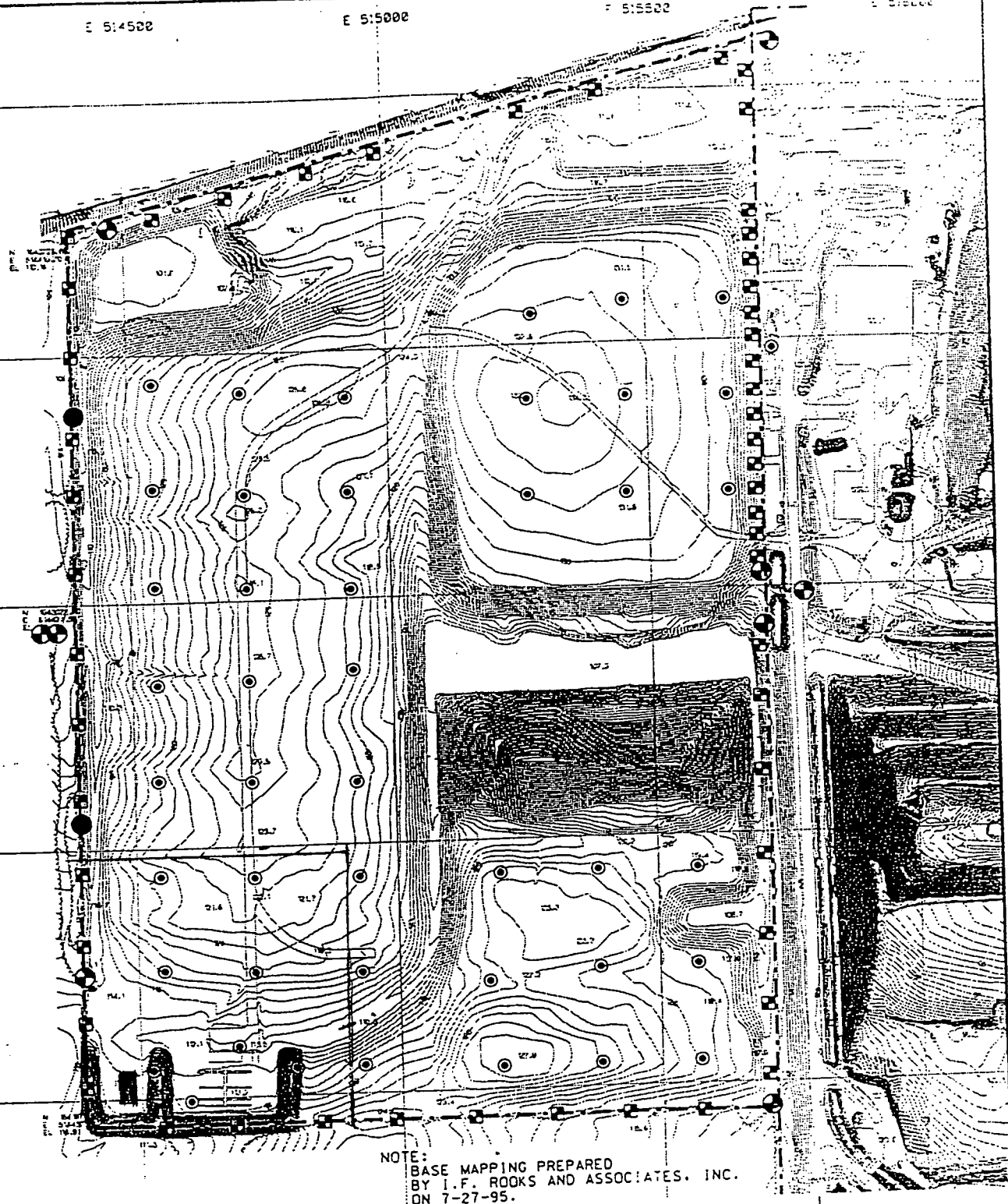
N 1644000

N 1643500

N 1643000

N 1642500

N 1642000

**LEGEND**

- PROPOSED GROUNDWATER MONITORING WELLS
- ⊙ GROUNDWATER MONITORING WELLS
- ⊠ GAS MONITORING SAMPLING POINT
- ⊙ GAS VENT

6-acre Sublease Area (WTI)

Proposed Firearms Training Structure

0 150 300 450
SCALE IN FEET

FIGURE 2B
Existing Features of Closed 60-Acre Landfill

N 164000


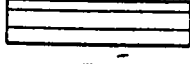



N 164300

N 164600

N 164900



N 165200

LEGEND

- CAPPED AREA BOUNDARY
- STORMWATER SWALES
-  DRAINAGE POND
-  LINED AREA
-  LIFT STATIONS
-  PAVED ROAD
-  FENCE

NOTE:

BASE MAPPING PREPARED
BY I. F. ROOKS AND ASSOCIATES, INC.
ON 7-27-95.

-  6-acre Sublease Area (WTI)
-  Proposed Firearms Training Structure

0 150 300 450
SCALE IN FEET

FIGURE 2A

Existing Features of Closed 60-Acre Landfill

figure2a.dlv



P 520 310 340

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to <i>Susan Metcalpe</i>	
Street & Number <i>Citrus City - SWM</i>	
Post Office, State, & ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date <i>4-3-98</i>	

PS Form 3800, April 1995

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.

SFD9-21030

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

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

*Susan Metcalpe, P.H.
Citrus County, SWM
PO Box 340
Leesville, FL 34460*

4a. Article Number

P 520 310 340

4b. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Registered | <input checked="" type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail | <input type="checkbox"/> Insured |
| <input checked="" type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD |

7. Date of Delivery

4-6-98

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

[Signature]

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

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

UNITED STATES POSTAL SERVICE



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Print your name, address, and ZIP Code in this box •

State of Florida
Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619-8318

RECEIVED
APR 09 1998
U.S. DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHWEST DISTRICT

Allison Amerson Solid Waste





Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

permit file

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

April 2, 1998

Ms. Susan J. Metcalfe, P.G.
Citrus County, Solid Waste Management
P.O. Box 340
Lecanto, FL 34460

**RE: Permit Renewal, Citrus County Central Landfill Long-Term Care
Permit No. SF09-211030**

Dear Commissioners:

A review of Department files indicates that the above referenced permit expires on September 1, 1998. Specific Condition No. 26 of Permit No. SF09-211030 states: "Prior to 90 days before the expiration of the Department Permit, the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules."

Due to the complexities involved in designing, constructing, operating, and caring for a solid waste management facility, and the possibility that standards and/or regulations applicable to your facility may have changed, preparation of a complete permit application can be a rather involved and time consuming process.

Therefore, the Department recommends that if you have not already done so, you begin the preparation of your application for permit renewal for the above referenced facility. Also, since permit fees have changed, you should contact this office prior to submittal of your application to assure that the current fee is included.

Should you have any questions or require any assistance, please contact me at (813)744-6100, ext. 336.

Sincerely,

Allison Amram, P.G.
Solid Waste Section

cc: Robert Butera, P.E.
Gary Kuhl, P.E., Citrus County Public Works, P.O. Box 440, Lecanto, FL 34460
Citrus County Board of County Commissioners, 110 North Apopka Avenue, Inverness, FL 34450

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 2/17/98
Time 10:45

Subject Citrus LTC permit renewal
Permit No. _____

M John Wood
Representing CH₂M Hill

County _____
Telephone No. 954/426-4008

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

Other Individuals Involved in Conversation/Meeting _____

Summary of Conversation/Meeting _____

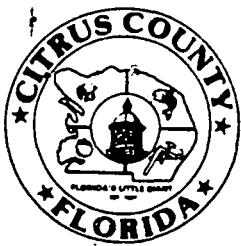
Citrus LTC permit expires 9/1/98
SC #22 - GWMP eval due 90 days prior to expiration
24 - \$ annually
26 - reapply for permit 90 days prior to expir.
7 - 180 days prior - eval. LCRS
2 - this was done 1 yr ago - does not
need to be done again.

\$1000 appl. fee
Application will include cover, stormwater, leachate
& gas removal system effectiveness. John may
comm. to look @ other closure renewals. I
suggested Fl. Mining - Herwando
Env. Waste Control - Pasco

(continue on another
sheet, if necessary)

Signature AA Amrain

Title PGI



**BOARD OF COUNTY COMMISSIONERS
DEPARTMENT OF PUBLIC WORKS**

RECEIVED
JAN 02 1998

REPLY TO:

Solid Waste Management
P.O. Box 340
Lecanto, Florida 34460-0340

3600 W. SOVEREIGN PATH
LECANTO, FLORIDA 34461

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Suite 212
352-527-5477 Phone
352-527-5479 Fax

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- Permits & Compliance Sec.
Suite 204
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352-527-5319 Fax
- Project Management Sec.
Suite 241
352-527-5449 Phone
352-527-5482 Fax
- Survey Section
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352-527-5482 Fax

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352-527-0654 Fax
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352-746-9189 Fax

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352-746-4107 Phone
352-746-1203 Fax

UTILITIES DIVISION

PO Box 440
Lecanto, FL 34460
352-746-2694 Phone
352-746-1676 Fax

SOLID WASTE MANAGEMENT

230 W. Gulf to Lake Highway
PO Box 340
Lecanto, FL 34460
352-746-5000 Phone
352-527-1204 Fax

December 30, 1997

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

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

Re: Citrus County Central Landfill
Permit No. SC09-211030
Closed Landfill Cap in Gun Range Area

Dear Mr. Ford:

My letter of December 16 described damage and proposed repairs to the plastic cap material on the closed landfill site. The repairs have been completed as shown on the attached survey sketch. 30-mil HDPE was extrusion welded in place on top of the existing damaged HDPE cap material. Approximately 2 feet of soil has been placed over the patched area. An informal benchmark has been placed on the gas vent closest to the area to be used for reference at such time as WTI chooses to install the fitness course. Due to recent rains, the area is saturated. We will wait until the area dries out before completing compaction of that soil, placing any additional soil and replacing the vegetation.

Please contact me if you have additional questions.

Yours truly,

Susan J. Metcalfe

Susan J. Metcalfe, P.G.
Director

CC: Ken Saunders, Director, Public Works Department
Bob Butera, FDEP, Tampa
Eber Brown, Law Enforcement Training, Withlacoochee Tech (w/attachment)
Steve Kinard, Director, Withlacoochee Tech
Bill Korn, Division of Forestry, Brooksville(w/attachment)



RECEIVED

JAN 02 1998

Department of Environmental Protection
SOUTHWEST DISTRICT

BY _____

POINT OF COMMENCEMENT
N.E. CORNER OF THE S.E. 1/4
OF SEC. 1, TWP. 19S., RGE. 18E

(D) N89°43'25"W 1339.11'
(D) S00°46'14"E 56.49'

P.O.B.

SOUTHERLY RIGHT-OF-WAY LINE OF STATE ROAD No. 44
(D) N.74°40'03"E. 1,363.81' (F) N.75°23'59"E. 1,363.01'

(D) N00°46'14"W 1,808.78' (F) N00°00'03"E 1,808.55'

INACTIVE 60 ACRE LANDFILL

(D) S.00°46'14"E. 2,151.70' (F) S.00°01'17"E. 2,151.81'

DESCRIPTION (AS FURNISHED)

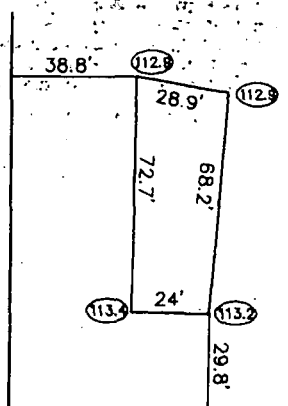
A portion of Section 1, Township 19 South, Range 18 East, Citrus County, Florida, more particularly described as follows:

Commence at the Northeast corner of the Southeast quarter of Section 1, Township 19 South, Range 18 East, Citrus County, Florida; Thence N 89°43'25" W along the North boundary of said Southeast quarter, a distance 1,339.11 feet; Thence S 00°46'14" E, a distance of 56.49 feet to the Point of Beginning; Thence continuing S. 00°46'14" E., a distance of 2,151.70 feet; Thence S. 89°13'46" W., a distance of 1,320.00 feet; Thence N. 00°46'14" W., a distance of 1,808.78 feet to a point on the Southerly right-of-way line of State road No. 44; thence N. 74°40'03" E. along said Southerly right-of-way line, a distance of 1,363.81 feet to the Point of Beginning.

CAP REPAIR AREA
SEE DETAIL "A"

(D) S89°13'46"W 1,320.00' (F) S.89°59'11"W 1320.01'

DETAIL "A" NOT TO SCALE



1. BEARINGS AND DISTANCES SHOWN HEREON ARE MEASURED AND BASED ON THE STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD. 83 UNLESS OTHERWISE SHOWN, THE NORTH BOUNDARY OF THE SOUTHEAST 1/4 OF SECTION 1, TOWNSHIP 19 SOUTH, RANGE 18 EAST BEING N.89°58'22"E
2. NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS NOTED
3. THIS SURVEY IS OF VISIBLE FEATURES ONLY, UNDERGROUND ENCROACHMENTS, IF ANY, WERE NOT LOCATED.
4. ADDITION OR DELETIONS TO THIS SURVEY DRAWINGS BY OTHER THAN THE SIGNED PARTY OR PARTIES IS PROHIBITED BY LAW WITHOUT WRITTEN CONSENT OF SIGNED PARTY OR PARTIES
5. ELEVATIONS AS SHOWN HEREON (IF ANY) ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
6. THERE MAY BE ADDITIONAL EASEMENTS OR RESTRICTIONS NOT SHOWN ON THIS SURVEY. THAT MAY BE FOUND IN THE PUBLIC RECORDS OF CITRUS COUNTY, FLORIDA.
7. DEED BEARINGS SHOWN HEREON MUST BE ROTATED 00°18'13" COUNTER CLOCKWISE TO MATCH THE REFERENCE AZIMUTH

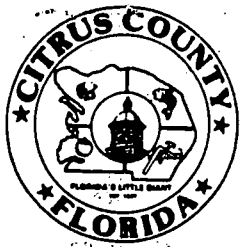
THIS IS A SPECIFIC PURPOSE SURVEY INTENDED TO SHOW THE LOCATION OF THE LANDFILL PATCH AREA ONLY, NO OTHER IMPROVEMENTS WERE LOCATED BY THIS SURVEY.

Proj. No. 97-104
Drawn by: P.L.H.
Approved by:
Date: December 18, 1997
Scale: 1" = 300'
Sheet No. 1 of 1
Field Date: December 17, 1997
Field Book: 8-D
Pages: 14

Citrus County
Department of Public Works
Division of Engineering
Survey Section
3600 WEST SOVEREIGN PATH, SUITE 241
LECANTO, FLORIDA. 34461
(352) 527-5498 FAX (352) 527-5476

SURVEYOR'S CERTIFICATION
I hereby certify that the herein described land survey and plot are true and correct and was prepared under my direction and supervision and conforms to the minimum technical standards set forth by the Florida Board of Professional Land Surveyors in Chapter 47-6, Florida Administrative Code, pursuant to Section 472.02, Florida Statutes.
Dated this 22 day of December, 1997
Patrick L. Henson
Patrick L. Henson Registered Land Surveyor No. 4547
Not valid without an original signature and seal.

- | | | | |
|---|---|---|---------------------------------------|
| <input checked="" type="checkbox"/> FOUND 4"x4" CONCRETE MONUMENT | <input type="checkbox"/> FOUND IRON ROD SET 4"x4" CONCRETE MONUMENT | P.O.B. = POINT OF BEGINNING | P.B. = PLAT BOOK |
| <input type="checkbox"/> SET 4"x4" CONCRETE MONUMENT | <input type="checkbox"/> ELEVATION | P.O.C. = POINT OF COMMENCEMENT | P.R.M. = PERMANENT REFERENCE MONUMENT |
| <input checked="" type="checkbox"/> DESCRIPTIVE POINT | <input type="checkbox"/> R/W RIGHT-OF-WAY | P.R.C.F. = PUBLIC RECORDS OF CITRUS COUNTY, FLORIDA | T.B.M. = TEMPORARY BENCHMARK |
| <input checked="" type="checkbox"/> FOUND IRON ROD | <input type="checkbox"/> CENTERLINE | (P) = PLAT, (D) = DEED, (F) FIELD | P.C.P. = PERMANENT CONTROL POINT |
| <input checked="" type="checkbox"/> SET 5/8" DIA. IRON ROD WITH CITRUS COUNTY CAP | <input type="checkbox"/> POWER POLE | O.R.B. = OFFICIAL RECORD BOOK | C.B.S. = CONCRETE BLOCK STRUCTURE |
| | <input type="checkbox"/> BENCHMARK | | C/S = CONCRETE SLAB |
| | <input type="checkbox"/> WELL | | |
| | <input type="checkbox"/> GUY POLE | | |



BOARD OF COUNTY COMMISSIONERS DEPARTMENT OF PUBLIC WORKS

REPLY TO:
Solid Waste Management
P.O. Box 340
Lecanto, Florida 34460-0340

December 16, 1997

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

Re: Citrus County Central Landfill
Permit No. SC09-211030
Closed Landfill Cap in Gun Range Area

RECEIVED
DEC 19 1997
Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

Dear Mr. Ford:

This is to follow up on the notification made by David Chamblin to you on November 6, 1997 concerning the closed landfill. At that time we reported that the synthetic cap had been breached in a number of locations. The extent of the damage has now been determined and arrangements have been made for repair of the damage.

The Citrus County School Board holds a sublease from the Division of Forestry on a 6-acre portion in the southwest corner of the closed 60-acre landfill; the County holds a sublease on the remaining 54 acres. Withlacoochee Technical Institute (WTI) operates a law enforcement training program for the School Board using that sublease area. Currently there is a firing range and I understand that they wish to expand that use by installing a physical fitness training course involving a number of semi-vertical posts.

On November 6, a contractor for WTI was onsite and drilled 61 auger holes through the HDPE cap which forms the required impermeable barrier on top of the closed landfill. The plastic layer was approximately 2 to 3 feet below ground surface. The damage was discovered by County employees at approximately the same time the work crew left the site and you were informed the same day. No representative from WTI was present during the work.

The holes are approximately 8 inches in diameter and penetrated the cap by about 6 inches to one foot. The area in which the holes are located is approximately 25 by 60 feet. The soil beneath the plastic is relatively impermeable as evidenced by

3600 W. SOVEREIGN PATH
LECANTO, FLORIDA 34461

ADMINISTRATION OFFICE
Suite 212
352-527-5477 Phone
352-527-5479 Fax

ENGINEERING DIVISION:
Suite 241
352-527-5446 Phone
352-527-5476 Fax

- Land Section
Suite 205
352-527-5447 Phone
352-527-5459 Fax
- Permits & Compliance Sec.
Suite 204
352-527-5448 Phone
352-527-5319 Fax
- Project Management Sec.
Suite 241
352-527-5449 Phone
352-527-5482 Fax
- Survey Section
Suite 241
352-527-5446 Phone
352-527-5482 Fax

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MAINTENANCE OPERATIONS:

- Facilities Maint. Section
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352-527-0333 Phone
352-527-0654 Fax
- Fleet Management Section
PO Box 215
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352-746-6888 Phone
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PO Box 167
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352-746-4107 Phone
352-746-1203 Fax

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230 W. Gulf to Lake Highway
PO Box 340
Lecanto, FL 34460
352-746-5000 Phone
352-527-1204 Fax

Kim Ford
December 16, 1997
Page 2

standing water in the holes after rainfall. No gas bubbles have been observed coming through the holes. A photocopy of a photo of one of the holes is attached.

County personnel have cleaned all the overlying soil from the damaged area and we are pumping the accumulated rainfall out of the area as the need arises. Danielle Nichols of your office observed this condition during a site inspection on December 10. We have obtained quotes for repair of the liner and have arranged for patching December 17. The proposed repair will involve making a single large patch of 30-mil HDPE (matching the existing material) to cover the entire 25 x 60 foot area, attaching the patch with extrusion welds. We will then survey the location and elevation of the patch and replace the cover soil. After completion of the repair we will send you a map of that area. At the request of WTI, we intend to place at least 4 feet of soil over the liner in that area, while maintaining the current drainage pattern. The County expects that WTI will reimburse us for all repair expenses.

Please contact me if you have additional questions.

Yours truly,

Susan J. Metcalfe, P.G.
Director

CC: Ken Saunders, Director, Public Works Department
Bob Butera, FDEP, Tampa
Eber Brown, Law Enforcement Training, Withlacoochee Tech
Steve Kinard, Director, Withlacoochee Tech
Bill Korn, Division of Forestry, Brooksville



11-6-97

Citrus County
Division of
Solid Waste Management
Post Office Box 340
Lecanto, Florida 34460



RECEIVED
DEC 19 1997

Department of Environmental Protection
SOUTHWEST DISTRICT
BILL KORN, BY
DIVISION OF FORESTRY
15019 BROAD STREET
BROOKSVILLE, FL 33512

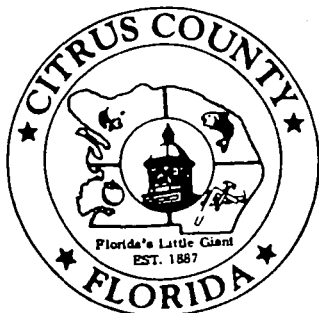
 Printed on
Recycled Paper

Citrus County
Division of
Solid Waste Management
Post Office Box 340
Lecanto, Florida 34460



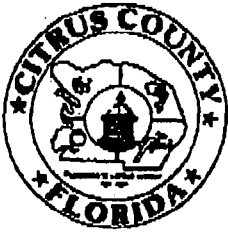
EBER BROWN, LAW ENFORCEMENT TRAINING
WITHLACOOCHEE TECHNICAL INSTITUTE
1201 WEST MAIN STREET
INVERNESS, FL 34450-4696

 Printed on
Recycled Paper



STEVE KINARD, DIRECTOR,
WITHLACOOCHEE TECHNICAL INSTITUTE
1201 WEST MAIN STREET
INVERNESS, FL 34450-4696

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Recycled Paper



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352-746-1203 Fax

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352-746-2600 Phone
352-746-1676 Fax

SOLID WASTE MANAGEMENT
230 W. Gulf in Lake Highway
PO Box 340
Lecanto, FL 34460
352-746-5000 Phone
352-527-1204 Fax

BOARD OF COUNTY COMMISSIONERS DEPARTMENT OF PUBLIC WORKS

REPLY TO:

Div. of Solid Waste Mgmt.
Susan J. Metcalfe, Director
352/746-5000
FAX: 352/527-1204

DATE:

1/12/98

TIME:

11 10

NO. PAGES:

2

including cover sheet

TO:

Allison Antram

DEP

Fax 813-744-6125

FROM:

Susie Metcalfe

RE:

Permit # references

MESSAGE: We just noticed that your cover letter to last year's permit changes contained typos in the permit #. See attached - No need to change for us.

01/12/98 12:11

904 7465000 5271204 SOLID WASTE MGT

002



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

JAN - 8 1997

PERMITTEE

Citrus County
Board of County Commissioners
c/o Ms. Susan Metcalfe, P.G.
Solid Waste Management
P.O. Box 340
Lecanto, FL 34460

RE: Modification to existing permit
Permit No. SF09-211030, Citrus County
Citrus County Central Landfill Long-Term Care

Dear Ms. Metcalfe:

The Long-term care permit No. SF09-211030 for the Citrus County Central landfill is being modified by the Florida Department of Environmental Protection. The groundwater and gas monitoring networks for the closed landfill effectively monitors both the operating and closed portions of the landfill, so these conditions have been consolidated into the landfill's operating permit, S009-274381. This modification deletes specific conditions that have been moved into the operating permit, which was issued on October 20, 1996.

<u>SPECIFIC CONDITIONS</u>	<u>FROM</u>	<u>TO</u>	<u>TYPE OF MODIFICATION</u>
#3	Existing	Deleted	Gas wells and warning signs already installed.
#4	Existing	Amended	Refers gas monitoring to S009-274391.
#7	Existing	Amended	Adds leachate management. 81
#8	Existing	Amended	Refers groundwater monitoring conditions to S009-274391. 81
#9 - 23	Existing	Deleted	Groundwater monitoring conditions moved to S009-274381.
#24	Existing	Amended	Provides submittal date for financial assurance cost estimates.

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

Printed on recycled paper.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 12/15/97
Time 10:20

Subject Cap Condition @ Closed LF
Permit No. _____
County Citrus
Telephone No. _____

M Susie Motcalfe
Representing _____

☒ Phoned Me ☐ Was Called ☐ Scheduled Meeting ☐ Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting Notes: Danielle mentioned 61 holes in LF cap during last week's inspection - Susan called & was referred to me to discuss info DEP needs from her.

Summary of Conversation/Meeting Damage to cap over closed landfill - 61 holes she talked w/ Kim - I asked her to send a letter w/ the following
1) when damage occurred to geomembrane (25x60)
2) when called ~~out~~ Kim - Kim directed I patch over
3) how & when it will be fixed - Contractor was sched. for last week area
4) any plans for land use over the landfill cap need to be reviewed by FDEP

Firing range sent contractor out to
auger borings under verbal contract.
School Board leases the land - I asked Susie
to copy them on her letter to us so that we can
respond & inform them of rules & hazards
@ old landfills

(continue on another
sheet, if necessary)

Signature Allison Amram
Title PLG/

PA-01
1/96
pap

New 80 wells are all in - should get well
construction / analyticals end of Jan '98



Board of County Commissioners

Department of Public Works

RECEIVED
OCT 02 1997

September 29, 1997

Department of Environmental Protection
SOUTHWEST DISTRICT

BY _____

REPLY TO:

Solid Waste Management
P.O. Box 340
Lecanto, Florida 34460-0340

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

Re: Citrus County Central Landfill,
Permit No. SF09-211030
Report on Leachate Collection System Cleaning

Dear Mr. Ford:

During a visit to our site this summer, you had requested additional information related to my March 10 report on leachate collection system cleaning at the closed 7-acre cell. My schedule has been very busy since that time. I expect that the information you requested can be provided by October 17.

Please contact me if you have any questions.

Yours truly,

Susan J. Metcalfe, P.G.
Director

CC: Ken Saunders, Director, Public Works Department

Administrative Office

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Lecanto, FL 34460
(352) 746-2694
Fax 746-3368

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Management**

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Fax 527-1204

Utilities

Post Office Box 440
Lecanto, FL 34460
(352) 746-2694
Fax 746-1676



Board of County Commissioners

Department of Public Works

REPLY TO:

Solid Waste Management
P.O. Box 340
Lecanto, Florida 34460-0340

March 10, 1997

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

D.E.P.

MAR 14 1997

SOUTHWEST DISTRICT
TAMPA

**RE: Citrus County Central Landfill
Permit No. SF09-211030
Leachate collection system inspection/cleaning**

Dear Mr. Ford:

During the period February 24 through March 7, 1997, the County's contractor, Methane Divers, worked on inspection and cleaning the leachate collection system in the 7-acre cell of the closed landfill. The collection system consists of two 350-foot long, 6-inch diameter perforated collection pipes each connected to a sump equipped with pumping equipment. Illustrations, reduced from construction drawings, are attached.

The contractor sent a diver into each vertical lift station to inspect and take video. Walls of the west lift station were power washed. In addition, both collection pipes were cleaned with a jet and video inspected. The total volume of sand is estimated at 150 cubic feet. County crews had previously washed the east lift station walls and removed an unknown amount of sand by pumping from that facility. Both lines and both sumps are now clear of sediment.

Noticeable flow is entering perforations in the west side sump and some collection pipe locations. Flow has increased since cleaning, partly due to introduced water. Leachate flow information is regularly reported as required in our permit.

The permanent pumps have been replaced at about six inches above the bottom of each sump. Recovery (pumps off) water level measurements are shown on the attached graph, along with notations referring to construction features.

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Kim Ford
March 10, 1997
Page 2

Please contact me if you have any questions.

Yours truly,

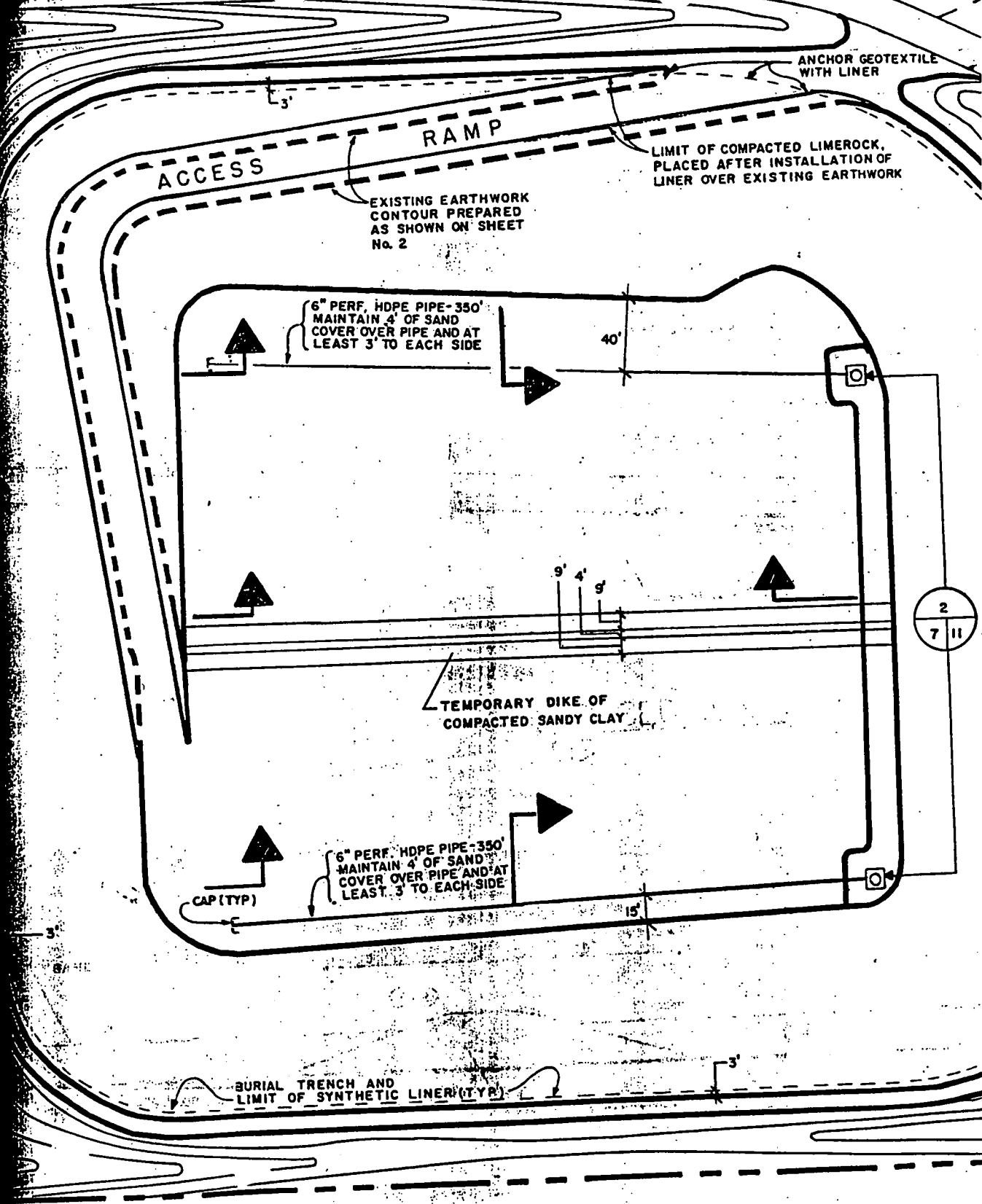
A handwritten signature in cursive script that reads "Susan J. Metcalfe".

Susan J. Metcalfe, P.G.
Director

cc: Ken Saunders, Acting Director, Public Works Department
Robert Butera, FDEP, Tampa
Allison Amram, FDEP, Tampa
John Wood, CH2M Hill, Deerfield

ING

CK ROAD

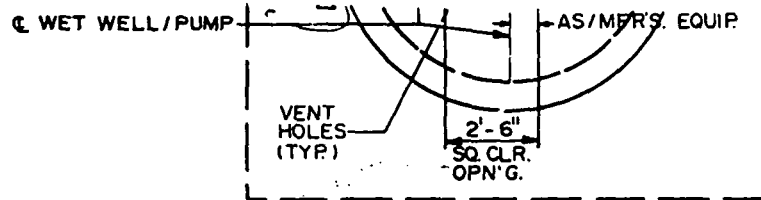


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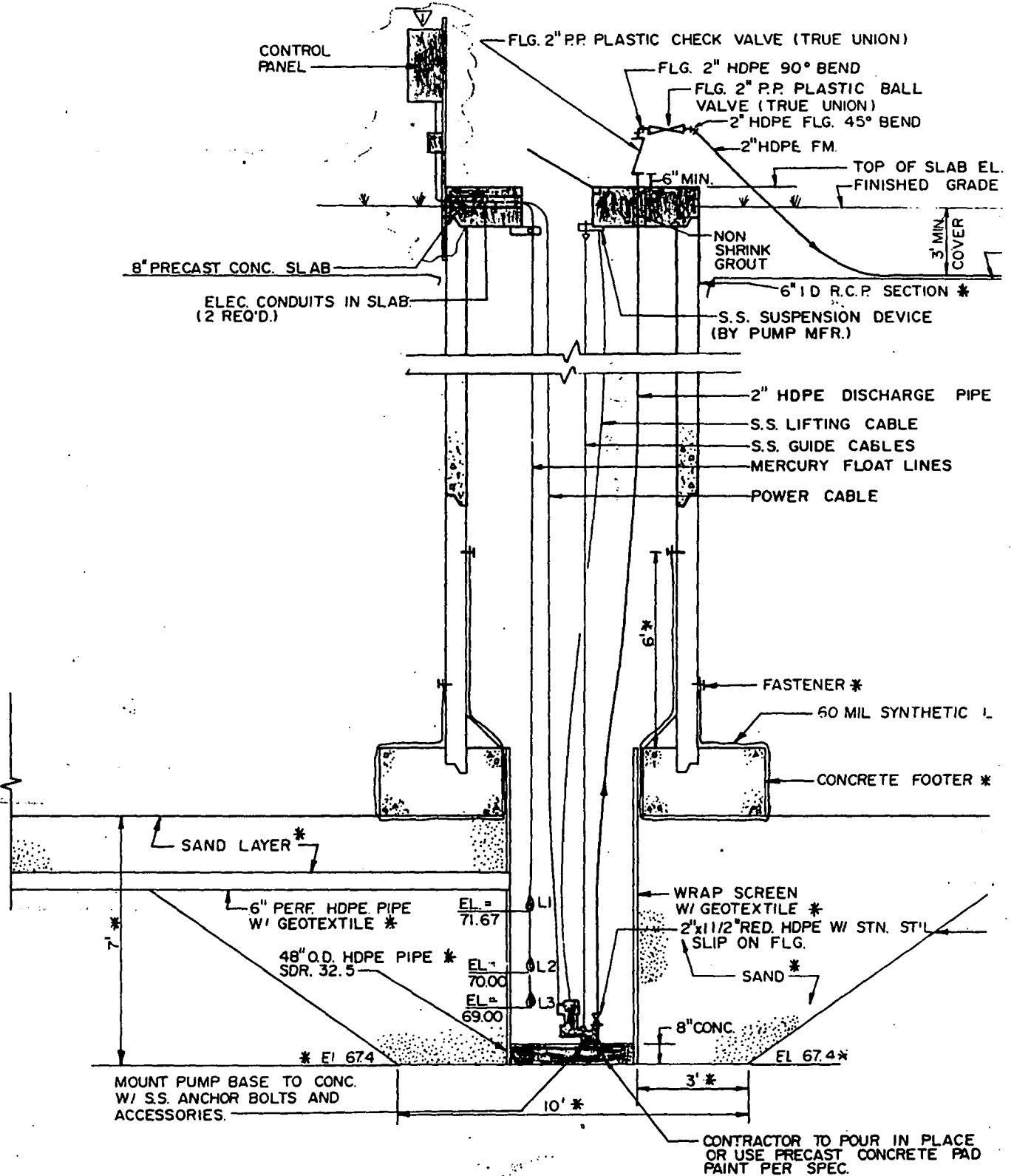
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PLAN

SCALE: 3/8" = 1'-0"



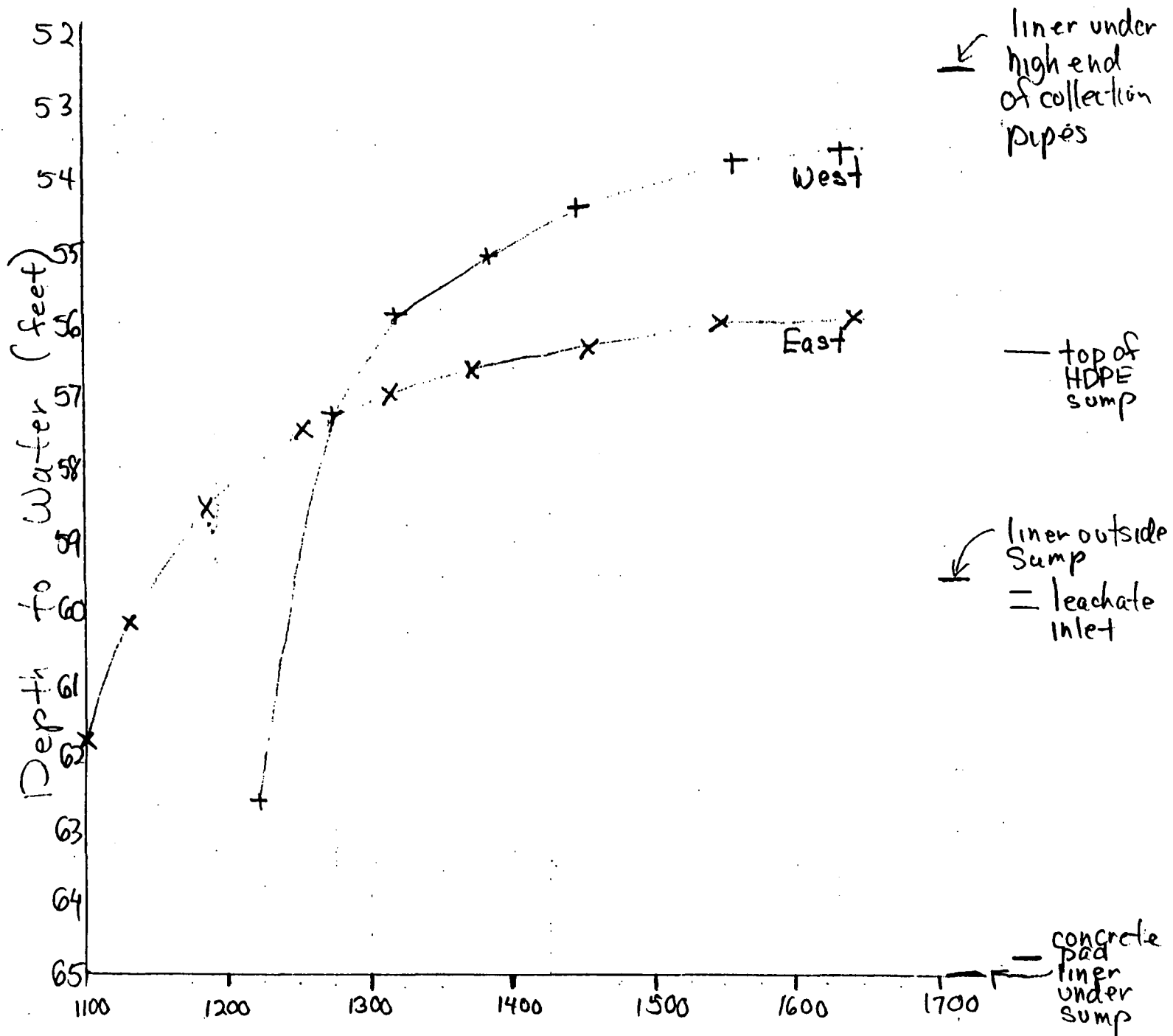
SECTION

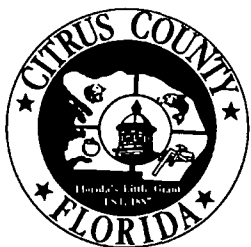
SCALE: 3/8" = 1'-0"

A

17

March 7 1997 Water Level Recovery
Citrus County Central Landfill
7-Acre Lift Stations





Board of County Commissioners

Department of Public Works

REPLY TO:

Solid Waste Management
P.O. Box 340
Lecanto, Florida 34460-0340

March 12, 1997

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

D.E.P.

MAR 14 1997

SOUTHWEST DISTRICT
TAMPA

Re: Citrus County Central Landfill
Permit No. ~~SO09-274381~~ → SE-09 - 211030

Dear Mr. Ford:

During construction of the road crossing for the leachate force main associated with Phase 1A, Smith Technologies accidentally damaged the force main from the 7-acre site to the leachate holding tank. This incident occurred March 11, late in the day. The lift station pumps were not on, so the amount of leachate which was discharged was minor (estimated at about 10 gallons). The contractor contained all leachate in the excavation and removed all soil which had been affected. This material was deposited in the landfill. The damaged line has been repaired. Clean soil was placed in the excavation and compacted. The location of the incident is shown on the attached sketch.

Please contact me if you have any questions.

Yours truly,

A handwritten signature in cursive script, reading "Susan J. Metcalfe".

Susan J. Metcalfe, P.G.
Director

CC: Ken Saunders, Acting Director, Public Works Department
Bob Butera, DEP, Tampa
Nels Peletier, Smith Technologies, onsite
Clyde Walker, CH2M HILL onsite

Administrative Office

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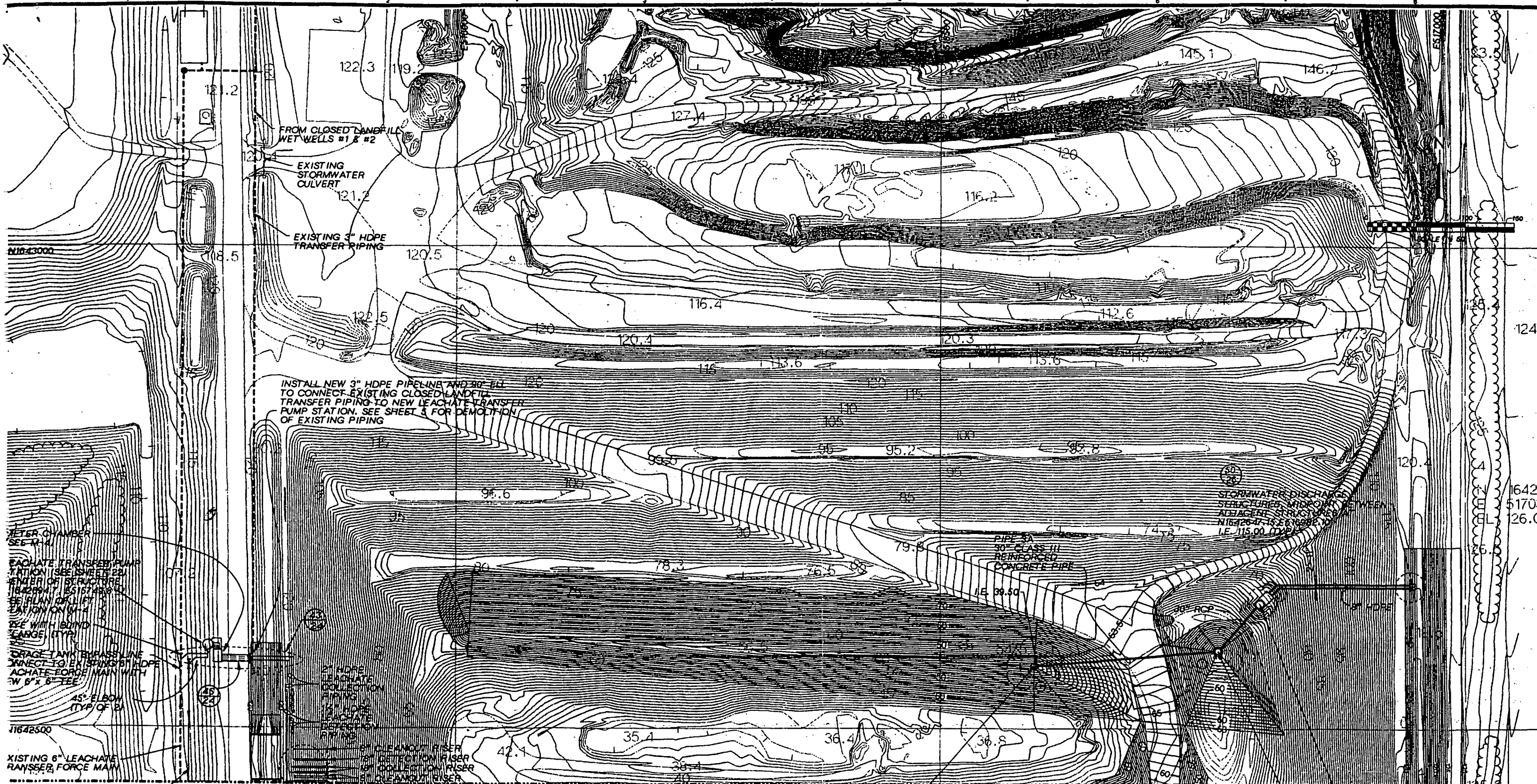
Post Office Box 167
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(352) 746-4107
Fax 746-1203

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Fax 527-1204

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Fax 746-1676



	DESIGN B. COLE M. KING	<table border="1"> <tr><td>NO.</td><td>DATE</td></tr> <tr><td> </td><td> </td></tr> </table>	NO.	DATE			<table border="1"> <tr><td>REVISION</td></tr> <tr><td> </td></tr> </table>	REVISION		<table border="1"> <tr><td>BY</td></tr> <tr><td> </td></tr> </table>	BY		<table border="1"> <tr><td>APVD</td></tr> <tr><td> </td></tr> </table>	APVD		REUSE OF DOCUMENTS THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF C&M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF C&M HILL.	BAR IS ONE INCH ON ORIGINAL DRAWING. 0" = 100' HORIZONTAL 0" = 10' VERTICAL IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CITRUS COUNTY CENTRAL LANDFILL PHASE 1A EXPANSION CITRUS COUNTY, FLORIDA	LEACHATE AND STORMWATER LAYOUT	SHEET 20
	NO.		DATE																	
	REVISION																			
BY																				
APVD																				
DR J. BECKERDITE	DATE 6-28-85																			
CHK L. INNIS G. PANAZZO	PROJ NO. 130786.28.03																			
APVD JOHN WOOD	06:44:27 16-NOV-1995 0786m006.dwg																			

FDEP

3804 Coconut Palm Drive, Tampa, FL 33619-8318

FAX

Date:

3/14/97

Number of pages including cover sheet:

2

To:

Susie Metcalfe
Citrus

Phone:

Fax phone: 352/527-1204

CC:

From:

Allison Amram
Solid Waste Section

Phone:

(813) 744-6100 x 336

Fax phone:

(813) 744-6125

REMARKS:

☐

Urgent

☐

For your review

☐

Reply ASAP

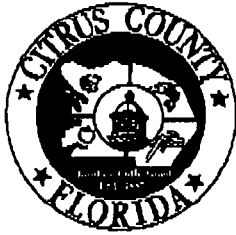
☐

Please comment

Susie -

Sorry that this # was not relayed to you.
Thanks for the reminder.

Allison



Board of County Commissioners

Department of Public Works

February 11, 1997

Ms. Allison Amram
Environmental Specialist III
Dept. of Environmental Regulation
Waste Management Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

4009A17478

RE: CITRUS COUNTY CENTRAL LANDFILL GROUNDWATER MONITORING

Dear Ms. Amram:

Upon review of our groundwater monitoring data, we find that the Test Site ID# for Monitoring Well E has not been received by the Division.

Please forward this information at your earliest convenience, in order that to be added to this quarters reporting form.

Thank you for your assistance.

Sincerely,

Susan Metcalfe
Director

SM:CJW:cjw

Administrative Office

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Lecanto, FL 34460
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**** Transmit Conf. Report ****

Mar 14 '97 12:39

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Time	0'46"
Pages	2 Page(s)
Result	0 K



Board of County Commissioners

Department of Public Works


RECEIVED
JAN 14 1997

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

REPLY TO:

Solid Waste Management
P.O. Box 340
Lecanto, Florida 34460-0340

January 10, 1997

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

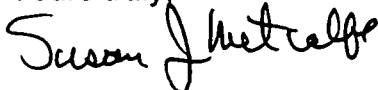
**Re: Citrus County Central Landfill
Permit No. SF09-211030
Leachate collection system inspection/cleaning**

Dear Mr. Ford:


My letter of December 12 indicated that we would be performing an inspection on the leachate collection system in January or February of this year. The state licensing board did not act on their application this month, therefor the project cannot start until February. We intend to do this work as soon as the contractor is licensed. I will keep you informed on the status of the project.

Please contact me if you have any questions.

Yours truly,



Susan J. Metcalfe, P.G.
Director

CC: Ken Saunders, Acting Director, Public Works Department
Robert Butera, FDEP, Tampa
 Allison Amram, FDEP, Tampa

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Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

JAN - 8 1997

PERMITTEE

Citrus County
Board of County Commissioners
c/o Ms. Susan Metcalfe, P.G.
Solid Waste Management
P.O. Box 340
Lecanto, FL 34460

RE: Modification to existing permit
Permit No. SF09-211030, Citrus County
Citrus County Central Landfill Long-Term Care

Dear Ms. Metcalfe:

The Long-term care permit No. SF09-211030 for the Citrus County Central landfill is being modified by the Florida Department of Environmental Protection. The groundwater and gas monitoring networks for the closed landfill effectively monitors both the operating and closed portions of the landfill, so these conditions have been consolidated into the landfill's operating permit, S009-274381. This modification deletes specific conditions that have been moved into the operating permit, which was issued on October 28, 1996.

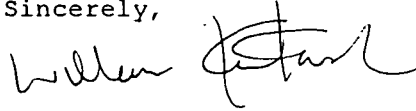
<u>SPECIFIC CONDITIONS</u>	<u>FROM</u>	<u>TO</u>	<u>TYPE OF MODIFICATION</u>
#3	Existing	Deleted	Gas wells and warning signs already installed.
#4	Existing	Amended	Refers gas monitoring to S009-274391.
#7	Existing	Amended	Adds leachate management.
#8	Existing	Amended	Refers groundwater monitoring conditions to S009-274391.
#9 - 23	Existing	Deleted	Groundwater monitoring conditions moved to S009-274381.
#24	Existing	Amended	Provides submittal date for financial assurance cost estimates.


Ms. Susan Metcalfe, P.G.
Page 2

JAN - 8 1997

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

Sincerely,



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

RDG/aea
Attachments



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

PERMITTEE
Citrus County
Board of County Commissioners
110 North Apopka Avenue
Inverness, Florida 34450

PERMIT/CERTIFICATION
GMS ID No: 4009C00086
Permit No: **SF09-211030**
Date of Issue: **09/24/93**
Expiration Date: **09/1/98**
County: Citrus
Lat/Long: 28°51'N
82°26'W
Sec/Town/Rge: 1/19S/18E
Project: Citrus County
Central Landfill
Long-Term Care

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

To provide long-term care, maintenance and groundwater monitoring for (approximately 60 acres), referred to as the Closed Citrus County Central Landfill, subject to the specific conditions attached. The site is located near S.R. 44, 3 miles east of Lecanto, Citrus County, Florida.

Replaces Permit No.: S009-111795

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

This permit replaces the permit that was issued on March 12, 1993 and petitioned by Citrus County on April 5, 1993. All petitioned conditions have been resolved and on August 6, 1993, after receiving a Notice to Relinquish Jurisdiction, the assigned hearing officer issued an order closing the file of the Division of Administrative Hearings and relinquishing jurisdiction back to the Department.

Landfill Long-Term Care

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

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

3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.

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

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

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

PERMITTEE: Citrus County Board of County Commissioners
Citrus County Central
Landfill Long-Term Care

PERMIT NO.: SF09-211030

GENERAL CONDITIONS:

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

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

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

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

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

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

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

PERMITTEE: Citrus County Board of County Commissioners
Citrus County Central PERMIT NO.: SF09-211030
Landfill Long-Term Care

GENERAL CONDITIONS:

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

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

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

13. This permit also constitutes:

- (a) Determination of Best Available Control Technology (BACT)
- (b) Determination of Prevention of Significant Deterioration (PSD)
- (c) Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
- (d) Compliance with New Source Performance Standards

14. The permittee shall comply with the following:

- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

PERMITTEE: Citrus County Board of County Commissioners
Citrus County Central PERMIT NO.: SF09-211030
Landfill Long-Term Care

GENERAL CONDITIONS:

(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.

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

- (a) All reports or information required by the Department shall be certified as being true, accurate and complete.
 - (b) Reports of compliance or noncompliance with, or any progress reports on, requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
 - (c) Notification of any noncompliance which may endanger health or the environment shall be reported verbally to the Department within 24 hours and again within 72 hours, and a final written report provided within two weeks.
1. The verbal reports shall contain any monitoring or other information which indicate that any contaminant may endanger an underground source of drinking water and any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.
 2. The written submission shall contain a description of and a discussion of the cause of the noncompliance and, if it has not been corrected, the anticipated time the noncompliance is expected to continue, the steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance and all information required by Rule 62-528.230(4)(b), F.A.C.

PERMITTEE: Citrus County Board of County Commissioners
Citrus County Central PERMIT NO.: SF09-211030
Landfill Long-Term Care

GENERAL CONDITIONS:

- (d) The Department shall be notified at least 180 days before conversion or abandonment of an injection well, unless abandonment within a lesser period of time is necessary to protect waters of the state.
- (17) The following conditions also shall apply to a hazardous waste facility permit.
- (a) The following reports shall be submitted to the Department:
1. Manifest discrepancy report. If a significant discrepancy in a manifest is discovered, the permittee shall attempt to rectify the discrepancy. If not resolved within 15 days after the waste is received, the permittee shall immediately submit a letter report, including a copy of the manifest, to the Department.
 2. Unmanifested waste report. The permittee shall submit an unmanifested waste report to the Department within 15 days of receipt of unmanifested waste.
 3. Biennial report. A biennial report covering facility activities during the previous calendar year shall be submitted by March 1 of each even numbered year pursuant to Chapter 62-730, F.A.C.
- (b) Notification of any noncompliance which may endanger health or the environment, including the release of any hazardous waste that may endanger public drinking water supplies or the occurrence of a fire or explosion from the facility which could threaten the environment or human health outside the facility, shall be reported verbally to the Department within 24 hours, and a written report shall be provided within 5 days. The verbal report shall include the name, address, I.D. number, and telephone number of the facility, its owner or operator, the name and quantity of materials involved, the extent of any injuries, an assessment of actual or potential hazards, and the estimated quantity and disposition of recovered material. The written submission shall contain:
1. A description and cause of the noncompliance.
 2. If not corrected, the expected time of correction, and the steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE: Citrus County Board of County Commissioners
Citrus County Central **PERMIT NO.: SF09-211030**
Landfill Long-Term Care

GENERAL CONDITIONS:

- (c) Reports of compliance or noncompliance with, or any progress reports on, requirements in any compliance schedule shall be submitted no later than 14 days after each schedule date.
- (d) All reports or information required by the Department by a hazardous waste permittee shall be signed by a person authorized to sign a permit application.

PERMITTEE: Citrus County Board of County Commissioners
Citrus County Central **PERMIT NO.: SF09-211030**
Landfill Long-Term Care

SPECIFIC CONDITIONS:

1. This landfill site is classified as a closed Class I landfill. Long-term care, maintenance, and groundwater monitoring shall be provided in accordance with all applicable requirements of Chapters 62-4, 62-25, 62-522, 62-550, and 62-701, Florida Administrative Code. Any construction on the closed landfill shall require a separate Department permit unless the Department determines a permit modification to be more appropriate. Construction does not include routine maintenance.

2. The operating authority shall be responsible for the control of odors and fugitive particulates arising from this closed landfill. Such control shall prevent the creation of these 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.

3. Deleted JAN - 8 1997.

4. Gas monitoring shall be conducted and reported as required by the operating permit No. SO09-274381.
Amended JAN - 8 1997.

5. In the event of damage to any portion of the closed landfill or related facilities, the permittee shall immediately notify the Department of Environmental Regulation explaining such occurrence and remedial measures to be taken and time needed for repairs. Written detailed notification shall be made within one week following the occurrence.

6. The site shall continue to have a surface water management system operated and maintained to prevent surface water flow onto the facility site, and a stormwater runoff control system operated and maintained to collect and control stormwater as indicated in the original approved stormwater management plans. Any significant modification of the approved stormwater design must be resubmitted to the Department for approval prior to implementation.

7. At least one hundred eighty (180) days prior to permit expiration, the entire leachate collection and removal system, force mains and gravity pipelines shall be evaluated to verify performance. The methods of evaluation may include pressure testing, video inspection, cleaning, statistical review of onsite and/or offsite leachate collection data or other approaches. Components not performing adequately shall be repaired, where possible. If repairs are not possible, the permittee shall propose measures to maintain performance at an alternate measurable standard. The results of the evaluation demonstrating adequate performance, remedial measures and/or alternate standards shall be submitted to the Solid Waste Section of the Southwest District Office prior to permit renewal.
Amended JAN - 8 1997.

PERMITTEE: Citrus County Board of County Commissioners
Citrus County Central **PERMIT NO.: SF09-211030**
Landfill Long-Term Care

SPECIFIC CONDITIONS:

8. Groundwater Monitoring conditions were transferred to the operating permit No. SO09-274381 on October 28, 1996.

Amended JAN - 8 1997.

9. - 23. Deleted JAN - 8 1997.

24. The permittee shall provide financial assurance for this landfill site in accordance with F.A.C. Rule 62-701. All costs for long-term care shall be adjusted and submitted **annually by September 1st** to: Solid Waste Manager, Solid Waste Section, Department of Environmental Regulation, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318. Proof that the financial assurance has been funded adequately shall be submitted **annually** to: Financial Coordinator, Solid Waste Section, Department of Environmental Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

Amended JAN - 8 1997.

25. 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 professionals who prepared or approved them.

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

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

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

Attachment 1

**PERMITTEE: CITRUS COUNTY BOARD OF COUNTY COMMISSIONERS
CITRUS COUNTY CENTRAL LANDFILL LONG-TERM CARE
PERMIT NO.: SF09-211030**

SPECIFIC CONDITION	SUBMITTAL DUE DATE	REQUIRED ITEM
24.	Annually by September 1st	Long-Term Care Estimates adjusted
24.	Annually	Proof of financial assurance funding
26.	Prior to June 1, 1998 (90 days before expiration	Apply for renewal of permit



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

NOTICE OF PERMIT

JAN - 8 1997

Citrus County
Board of County Commissioners
c/o Ms. Susan Metcalfe, P.G.
Solid Waste Management
P.O. Box 340
Lecanto, FL 34460

Dear Ms. Metcalfe:

Enclosed is the modification to existing Permit Number SF09-211030, issued pursuant to Section(s) 403.087(1), Florida Statutes.

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 (or a request for mediation, as discussed below) 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;

Citrus County
Ms. Susan Metcalfe, P.G.
Permit No.: SF09-211030

- (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.

Any person may elect to pursue mediation by reaching a mediation agreement with all parties to the proceeding (which include the applicant, the Department, and any person who has filed a timely and sufficient petition for a hearing) and by showing how the substantial interests of each mediating party are affected by the Department's action or proposed action. The agreement must be filed in (received by) the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail

Citrus County
Ms. Susan Metcalfe, P.G.
Permit No.: SF09-211030

Station 35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

The agreement to mediate must include the following:

- (a) The names, addresses, and telephone numbers of any persons who may attend the mediation;
- (b) The name, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time;
- (c) The agreed allocation of the costs and fees associated with the mediation;
- (d) The agreement of the parties on the confidentiality of discussions and documents introduced during mediation;
- (e) The date, time, and place of the first mediation session, or a deadline for holding the first session, if no mediator has yet been chosen;
- (f) The name of each party's representative who shall have authority to settle or recommend settlement; and
- (g) Either an explanation of how the substantial interests of each mediating party will be affected by the action or proposed action addressed in this notice of intent or a statement clearly identifying the petition for hearing that each party has already filed, and incorporating it by reference.
- (h) The signatures of all parties or their authorized representatives.

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

JAN - 8 1997

Page 4

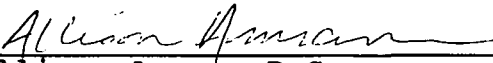
Citrus County
Ms. Susan Metcalfe, P.G.
Permit No.: SF09-211030

challenging the agency action and electing remedies under those two statutes.

When the Order (Permit) is final, any party to the Department has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Tampa Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Allison Amram, P.G.
Solid Waste Section
Division of Waste Management

AEA
Attachment

cc: Board of County Commissioners, 111 W. Main St., Masonic
Bldg, 3rd Floor, Inverness, FL 34450
Gary Kuhl, P.E., Citrus County
Kathy Anderson, FDEP Tallahassee
Steve Morgan, FDEP Tampa
Robert Butera, P.E., FDEP Tampa

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on JAN - 8 1997 to the listed persons.

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


Clerk

JAN - 8 1997
Date

RULES OF THE ADMINISTRATION COMMISSION, MODEL RULES OF PROCEDURE
CHAPTER 28-5, DECISIONS DETERMINING SUBSTANTIAL INTERESTS
PART II, FORMAL HEARINGS
A) PREHEARING PROCEDURES

28-5.201 Initial of Formal Proceedings.

(1) Initiation of formal proceedings shall be made by petition to the Agency responsible for rendering final Agency action. The term petition as used herein includes any application or other document which expresses a request for formal proceedings. Each petition should be printed, typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double-spaced and indented.

(2) All petitions filed under these rules should contain:

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

(b) The name and address of the petitioner or petitioners, and an explanation of how his/her substantial interests will be affected by the Agency determination;

(c) A statement of when and how petitioner received notice of the Agency decision of intent to render a decision;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief;

(f) A demand for relief to which the petitioner deems himself entitled; and

(g) Other information which the petitioner contends is material.

(3) Upon receipt of a petition for formal proceedings, the Agency shall either accept or deny the petition, and if accepted shall elect either to conduct the hearing itself through the Agency head, or member thereof, assign a person authorized by Subsection 120.57(1)(a) or other authority, or request that a Hearing Officer from the Division of Administrative Hearings be assigned to conduct the hearing.

(a) A petition may be denied if the petitioner does not state adequately a material factual allegation, such as a substantial interest in the Agency determination, or if the petition is untimely.

(b) The Agency shall promptly give written notice to all parties of the action taken on the petition, and shall state with particularity its reasons therefore.

(4) If the Agency elects to request that a Hearing Officer of the Division of Administrative Hearings be assigned to conduct the hearing, the Agency shall forward the petition, and all materials filed with the Agency, to the Division of Administrative hearings, and shall notify all parties of its action.

Specific Authority: 120.53(1), 120.54(10), F.S.

Law Implemented: 120.57, F.S.

History: New 3-23-80

SECTION 62-103.155, FLORIDA ADMINISTRATIVE CODE
RULES OF ADMINISTRATIVE PROCEDURE
FINAL AGENCY ACTION (NON-RULEMAKING) AND APPEAL

62-103.155 Petition for Administrative Hearing; Waiver of Right to Administrative Proceeding.

(1)(a) Any person whose substantial interests may be affected by proposed or final agency action by the Department may file a petition for formal administrative hearing in accordance with this rule if the person disputes the material facts upon which the Department's action is based.

(b) Any person whose substantial interests may be affected by proposed or final action by the Department may file a petition for informal administrative hearing in accordance with this rule if the person objects to the Department's action but does not dispute the material facts upon which the Department's action is based.

(2) A petition for formal or informal administrative hearing pursuant to section 120.57, F.S., shall contain the following information:

The name, address, and telephone number of each petitioner. If the petitioner challenges a Department action or proposed action on a permit application, the applicant's name and address, the Department permit file number and the county in which the project is proposed shall also be included;

(b) A statement of how and when each petitioner received notices of the Department action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of those material facts (i.e., those facts upon which the Department's action or proposal is based) is disputed by petitioner. If no facts are disputed, petitioner shall so state;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action;

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

(3)(a) A petition shall be in the form required by this rule and must be filed (received) in the Office of General Counsel of the Department within the following number of days after receipt or publication (whichever occurs first) of notice of proposed agency action or of notice of agency action:

1. Petitions concerning Department action or proposed action on applications for permits (except permits for hazardous waste facilities): 14 days;

2. Petitions concerning Department action or proposed action on applications for hazardous waste facility permits: 45 days;

3. Petitions concerning notices of violation when no informal conference is held: 20 days after receipt of the notice of violation;

4. Petitions concerning notices of violation when an informal conference is held: 10 days after receipt of notice of completion of the informal conference;

5. Petitions concerning other Department actions or proposed actions: 21 days.

The petitioner shall also serve a copy of the petition on all other parties to the proceeding, as identified in the published notice, at the time of filing.

(b) Failure to timely file a petition within the applicable time period after receipt of notice of agency action or receipt of notice of proposed agency action, whichever notice first occurs, shall constitute a waiver of any right to request an administrative proceeding under Chapter 120, F.S.

(4) If a petition is filed that does not substantially comply with the requirements of subsection (2) of this rule, the Department shall issue an order dismissing the petition with leave to file an amended petition complying with the requirements of this rule within 15 days of service of the order. If an amended petition complying with this rule is not filed (received) within 15 days of service of the order, the petitioner's right to a proceeding under Section 120.57, F.S., is waived.

(5) When there has been no publication of notice of agency action or notice of proposed agency action as prescribed in Rule 62-103.150, F.A.C., a person who has actual knowledge of the agency action or has knowledge which would lead a reasonable person to conclude that the Department has taken final agency action, has a duty to make further inquiry within 14 days of obtaining such knowledge by contacting the Department to ascertain whether action has occurred. The Department shall upon receipt of such an inquiry, if agency action has occurred, promptly provide the person with notice as prescribed by Rule 62-103.150, F.A.C. Failure of the person to make inquiry with the Department within 14 days after obtaining such knowledge may stop the person from obtaining an administrative proceeding on the agency action.

(6)(a) "Receipt of notice of agency action" means receipt of written notice of final agency action, as prescribed by Department rule, or the publication, pursuant to Department rule, of notice of final agency action, whichever first occurs.

(b) "Receipt of notice of proposed agency action" means receipt of written notice (such as a letter of intent) that the Department proposes to take certain action, or the publication pursuant to Department rule of notice of proposed agency action, whichever first occurs.

(7) Notwithstanding any other provision in this Chapter, should a substantially affected person who fails to timely request a hearing under Section 120.57, F.S., administratively appeal the final Department action or order, the record on appeal shall be limited to:

(a) the application and accompanying documentation submitted by the applicant prior to the issuance of the agency's intent to issue or deny the requested permit.

(b) the materials and information relied upon by the agency in determining the final agency action or order;

(c) any notices issued or published; and

(d) the final agency action or order entered concerning the permit application.

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

(9) Any applicant may challenge the Department's request for additional information by filing with the Office of General Counsel an appropriate petition for administrative proceeding pursuant to Section 120.60, F.S., following receipt by the applicant of the Department's notification pursuant to Section 403.0876, F.S., that additional information is required.

Specific Authority: 120.53, 403.0876, 403.815, F.S.

Law Implemented: 120.53, F.S.

History: New 9-20-79; Amended 4-28-81; Transferred from 17-1.62 and Amended 6-1-84; Amended 10-19-88, Formerly 17-103.155.



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

PERMIT COVER MEMO

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

FROM/THROUGH:

_____, ENVIRONMENTAL ADMINISTRATOR
_____, PROGRAM SUPERVISOR
R. Bunn 1/7/97, SECTION SUPERVISOR
Allison Amram, ENG, ENV SPEC, GEOLOGIST AAmram

DATE: 1/7/97

FILE NAME: Citrus Central - Long-term Case Permit CASE #: SFO9-211030
PROGRAM: Solid Waste COUNTY: Citrus

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

PUBLIC NOTICE PERIOD CLOSED? N/A
PETITION? _____ RELEASED BY OGC? _____

PERMIT SUMMARY: Modification move gas + groundwater
monitoring conditions to operation
permit 5009-274381. Site monitored
as one unit (open + closed cells)

PROFESSIONAL RECOMMENDATION: ✓ APPROVE _____ DENY _____

EVALUATION SUMMARY: Streamlines monitoring requirements
for the County (permits) + FDEP

DAY 90/30 FOR THIS ACTION IS N/A - Permit modified
by FDEP



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

December 18, 1996

Ms. Susan Metcalfe, P.G.
Citrus County
Solid Waste Management
Post Office Box 340
Lecanto, Florida 34460-0340

Re: 7 Acre Landfill LCRS Repairs
Permit No.: SF09-211030, Citrus County

Dear Ms. Metcalfe:

The Department has no objection to the proposed language regarding the leachate collection and removal system (LCRS) performance evaluation presented in your December 12, 1996 letter. The future evaluation of performance of the LCRS may be based upon a statistical review of related data if the proposed cleaning, inspection and repairs proposed for early 1997 are successful, and system components are performing as designed.

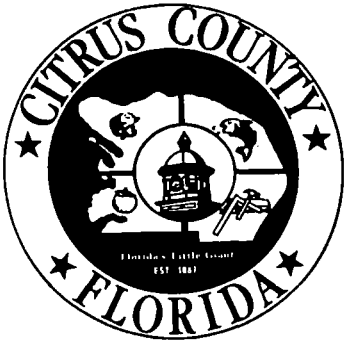
On all future correspondence please include Robert Butera on distribution. If you have any questions, you may call me at (813) 744-6100, extension 382.

Sincerely,

Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

KBF/br

cc: Ken Saunders, Citrus County
RB Robert Butera, P.E., FDEP Tampa
AA Allison Amram, P.G., FDEP Tampa



Board of County Commissioners

Department of Public Works

REPLY TO:
Solid Waste Management
P.O. Box 340
Lecanto, Florida 34460-0340

December 12, 1996

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

D.E.P.

DEC 13 1996

**SOUTHWEST DISTRICT
TAMPA**

**Re: Citrus County Central Landfill
Permit No. SF09-211030 draft modifications**

Dear Mr. Ford:

This is to clarify some points made in my November 25 letter concerning the proposed requirement (SC7c) to video inspect and clean the leachate collection lines for the 7-acre cell on our closed landfill. The timing of that proposed requirement is 180 days prior to permit renewal (March 1998). Inspection or cleaning of those collection lines will be done by permit-required confined space entry; a team of highly trained and equipped individuals will enter the 60+ foot deep manhole to gain access to the collection lines in order to inspect and clean them.

We expect to perform such an inspection of the leachate collection system for the 7-acre cell, probably in January or February 1997, and have a bid of about \$50,000 to do the work. A copy of our bid documents is attached for your information. We expect that this project will be successful, and that we will be able to demonstrate that the collection system is performing adequately in early 1997. Rather than having to repeat this procedure a year later, I believe alternate methods can be used to demonstrate continued adequate operation, at the time of permit renewal in early 1998. For example, as we measure daily leachate flows in the year after cleaning of the lines, we should be able to show minimal change as evidence for continued appropriate operation.

Administrative Office

Post Office Box 440
Lecanto, FL 34460
(352) 746-2694
Fax 746-3368

Aquatics

Post Office Box 440
Lecanto, FL 34460
(352) 746-2694
Fax 746-3368

Engineering

Post Office Box 440
Lecanto, FL 34460
(352) 746-2694
Fax 746-3368

Road Maintenance

Post Office Box 167
Lecanto, FL 34460
(352) 746-4107
Fax 746-1203

**Solid Waste
Management**

Post Office Box 340
Lecanto, FL 34460
(352) 746-5000
Fax 527-1204

Utilities

Post Office Box 440
Lecanto, FL 34460
(352) 746-2694
Fax 746-1676


December 12, 1996
Mr. Kim B. Ford, P.E.
Page 2

If the 1997 inspection reveals problems, we will inform the District and propose remedial measures to be implemented as part of the same project. The location and configuration of the leachate collection sump and lines leave limited options for repairs if they are needed.

In light of the above, I would like to request that proposed Specific Condition 7.c. be modified to read: "At least one hundred eighty (180) days prior to permit expiration, the entire leachate collection and removal system, force mains and gravity pipelines shall be evaluated to verify performance. The methods of evaluation may include pressure testing, video inspection, cleaning, statistical review of onsite and/or offsite leachate collection data or other approaches. Components not performing adequately shall be repaired, where possible. If repairs are not possible, the permittee shall propose measures to maintain performance at an alternate measurable standard. The results of the evaluation demonstrating adequate performance, remedial measures and/or alternate standards shall be submitted to the Solid Waste Section of the Southwest District Office prior to permit renewal."

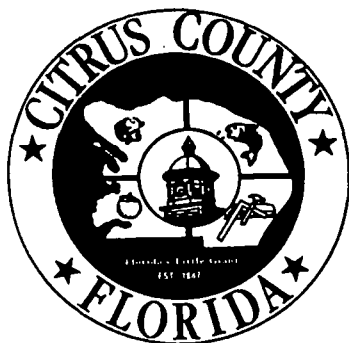
Please contact me if you have any questions.

Yours truly,



Susan J. Metcalfe, P.G.
Director

CC: Ken Saunders, Acting Director, Public Works Department
Robert Butera, FDEP, Tampa
Allison Amram, FDEP, Tampa



Board of County Commissioners

Department of Public Works

REPLY TO:
Solid Waste Management
P.O. Box 340
Lecanto, Florida 34460-0340

December 9, 1996

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

Re: All Citrus County Projects

Dear Mr. Ford:

This is to inform you of recent changes in Citrus County government organization. Mr. Tony Shoemaker is no longer the County Administrator; Mr. Gary Kuhl is now the Acting County Administrator. His address is 111 W. Main St., 3rd Floor, Inverness, Florida 34450; telephone 352-637-9810. Mr. Kenneth Saunders is now the Acting Public Works Director. His address is P.O. Box 440, Lecanto, Florida 34460; telephone 352-746-2694.

Please contact me if you have any questions.

Yours truly,

Susan J. Metcalfe, P.G.
Director

CC: Bob Butera, DEP, Tampa
Allison Amram, DEP, Tampa

Administrative Office

Post Office Box 440
Lecanto, FL 34460
(352) 746-2694
Fax 746-3368

Aquatics

Post Office Box 440
Lecanto, FL 34460
(352) 746-2694
Fax 746-3368

Engineering

Post Office Box 440
Lecanto, FL 34460
(352) 746-2694
Fax 746-3368

Road Maintenance

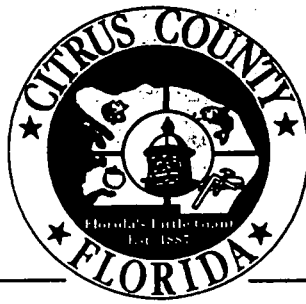
Post Office Box 167
Lecanto, FL 34460
(352) 746-4107
Fax 746-1203

**Solid Waste
Management**

Post Office Box 340
Lecanto, FL 34460
(352) 746-5000
Fax 527-1204

Utilities

Post Office Box 440
Lecanto, FL 34460
(352) 746-2694
Fax 746-1676



Board of County Commissioners

Executive Offices

111 West Main Street, Masonic Building, Third Floor
Inverness, Florida 34450

(352) 637-9810

FAX (352) 637-9803

COUNTY COMMISSIONERS

1996 - 1997

<u>Commissioner</u>	<u>District</u>	<u>Expiration</u>
Jim Fowler, Chairman	4	1998
Gary Bartell, 1st Vice Chairman	2	1998
Vicki Phillips, 2nd Vice Chairman	3	2000
Roger O. Batchelor	1	2000
Brad Thorpe	5	2000

Address

111 West Main Street
Masonic Building, 3rd Floor
Inverness, Florida 34450

Phone Number

(352) 637-9810

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 12/18/96
Time 10:45

Subject closed landfill - ZOD
Permit No. _____
County Citrus
Telephone No. _____

M Susie Motcalfe
Representing Citrus

☒ Phoned Me ☐ Was Called ☐ Scheduled Meeting ☐ Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

Summary of Conversation/Meeting

Called to see if there is any set wording for recording the ZOD on a property deed. No-DEP does not often extend ZODs. I told her to get the recorded property deed, & draw the ZOD on that & include the verbal description of the ZOD. She will draft & send to me for review.

Kim has agreed to her proposed language for the inspection of the leachate collection system. DEP will be issuing the modification to the SF permit shortly. All other conditions of the draft permit are OK.

(continue on another
sheet, if necessary)

Signature Allison Amram

Title PGI

FDEP

3804 Coconut Palm Drive, Tampa, FL 33619-8318

FAX

Date:

11/1/96

Number of pages including cover sheet:

4

To:

Susie Metcalfe
Citrus County Solid Waste

Phone:

Fax phone: 352/527-1204

CC:

From:

Allison Amram
Solid Waste Section

Phone:

(813) 744-6100 x 336

Fax phone:

(813) 744-6125

REMARKS:

☐ Urgent

☐ For your review

☐ Reply ASAP

☐ Please comment

Draft SF09-211030 permit. Gas + gw monitoring conditions were transferred to the operating permit.

#7 - adds maintenance of leachate system as per your 10/96 Ops. Plan

#24 - Adds date for submitting financial assurance cost estimates.

Please let me know your comments.

Also, field filtering approved for gw approved-letter went out this week.

Allison

**** Transmit Conf. Report ****

Nov 1 '96 16:02

---> 813525271204	
No.	0010
Mode	NORMAL
Time	1'50"
Pages	4 Page(s)
Result	O K

D.E.P.

DEC 13 1996

SOUTHWEST DISTRICT
TAMPA

INVITATION TO BID

DATE: August 23, 1996

The Citrus County Board of County Commissioners will accept sealed bids for:

BID NO. 97-31

**ITEM: PERMIT REQUIRED CONFINED SPACE ENTRY AND REPAIRS IN
TWO LEACHATE LIFT STATIONS AT THE CITRUS COUNTY
CENTRAL LANDFILL, LECANTO, FL**

DEPT: PUBLIC WORKS-DIVISION OF SOLID WASTE MANAGEMENT

The County desires to receive bids by qualified firms for services on the following project:

Providing all labor, equipment, and materials to enter two lift stations, investigate the current configuration of the facilities, if necessary remove current pumping equipment, remove any liner material which may obstruct access to the bottom, remove accumulated sand and other debris from the sump, remove sand and other debris from the leachate collection pipe which feeds each sump, identify damage or non-conformance to design of the leachate collection facilities, propose repairs to bring the facilities into conformance with original design or FDEP requirements, perform authorized repairs, replace current pumping equipment and return the lift stations to service.

A pre-submittal appointment for site inspection is required for consideration of project award. Prospective contractor shall meet with the Director of Solid Waste Management, Susan J. Metcalfe at the Citrus County Central Landfill, Lecanto, FL.

All Bidders must be qualified for the type of work for which the Bid is submitted.

All sealed bids are to be submitted on the County Bid Form and envelope marked to indicate bid number and vendor name. Proposals submitted via facsimile will be considered non-responsive and will not be accepted.

DELIVER BY: September 12, 1996 2:00 pm to:

**Citrus County Board of County Commissioners
Office of Budget and Financial Analysis
Attn: Cathy Taylor
107 Dr. Martin Luther King, Jr. Ave.
Suite 8, Park Place Building
Inverness, Florida 34450**

D.E.P.

DEC 13 1996

SOUTHWEST DISTRICT
TAMPA

**Invitation to Bid - 2
Bid No. 97-31**

Bids to be opened at 9:30 a.m. on September 13, 1996 at the Office of The Citrus County Board of County Commissioners located in the Masonic Building, 3rd Floor, 111 W. Main Street, Inverness, FL 34450.

THE CONTRACT DOCUMENTS, consisting of Invitation to Bid, Statement of No. Bid, Information for Bidders, Bid Form, Agreement, Technical Specifications, Notice of Award and Notice to Proceed, may be examined at the following location:

**DIVISION OF SOLID WASTE MANAGEMENT
Citrus County Central Landfill
230 West Gulf to Lake Highway (S.R. 44)
Lecanto, Florida 34461**

(352) 746-5000

No BIDS may be withdrawn for a period of thirty (30) days after the closing time scheduled for receipt of Bids.

The OWNER reserves the right to reject any and all BIDS and waive all informalities.

CITRUS COUNTY BOARD OF COUNTY COMMISSIONERS

BRAD THORPE, CHAIRMAN

D.E.P.

DEC 13 1996

**SOUTHWEST DISTRICT
TAMPA**

STATEMENT OF NO BID

NOTE: If you do not intend to bid on this item, please detach and return this form immediately. If you do intend to bid, see next page.

Board of County Commissioners
Office of Budget and Financial Analysis
Attn: Cathy Taylor
107 Dr. Martin Luther King, Jr. Ave.
Suite 8, Park Place Building
Inverness, Florida 34450

We, the undersigned, have declined to bid on your Bid No. 97-31 for the Central Landfill, Lecanto, Fl., for the following reason(s):

- ☐ Specifications to "tight", i.e., geared toward one-vendor
(explain below)
- ☐ Insufficient time to respond to the Invitation to Bid
- ☐ We do not offer this type of service
- ☐ Our schedule would not permit us to perform
- ☐ Unable to meet specifications
- ☐ Unable to meet bond requirement
- ☐ Specifications unclear (explain below)
- ☐ Unable to meet insurance requirements
- ☐ Remove us from your Vendor list altogether
- ☐ Other (specify below)

REMARKS: _____

We understand that if the "Statement of No Bid" is not executed and returned, our name may be deleted from the Vendor List of Citrus County.

Company Name: _____

Signature: _____

Telephone: _____ Date: _____

INFORMATION FOR BIDDERS

BIDS will be received by OWNER: Citrus County, Florida until 2:00 p.m. local time, on Thursday September 12, 1996 at the office of **Budget and Financial analysis, Attn: Ms. Cathy Taylor, 107 Dr. Martin Luther King, Jr. Ave., Suite 8, Park Place Building, Inverness, Florida.** BIDS will be opened and read aloud at the next regularly scheduled meeting of the Citrus County Bid Committee, Friday, September 13, 1996 at 9:30 a.m., at the Office of the Board of County Commissioners, in the Masonic Building, 3rd Floor, 111 W. Main Street, Inverness, FL 34450.

Each BID must be submitted in a sealed, opaque envelope, addressed to:

**CITRUS COUNTY BOARD OF COMMISSIONERS
Office of Budget and Financial Analysis
ATTN: Ms. Cathy Taylor
107 Dr. Martin Luther King, Jr. Ave.
Suite 8, Park Place Building
Inverness, Florida 34450**

Each sealed envelope containing a BID must be plainly marked on the outside as:

**"BID FOR THE PERMIT REQUIRED CONFINED SPACE ENTRY AND
REPAIRS IN TWO LEACHATE LIFT STATIONS
AT THE
CITRUS COUNTY CENTRAL LANDFILL,
LECANTO, FLORIDA
BID NO. 9 7-31"**

OTHERWISE THE BID SHALL NOT BE OPENED.

If forwarded by mail, the sealed envelope containing the BID must be enclosed in another envelope addressed to the OWNER at:

**CITRUS COUNTY BOARD OF COUNTY COMMISSIONERS
Office of Budget and Financial Analysis
Attn: Ms. Cathy Taylor
107 Dr. Martin Luther King, Jr. Ave.
Suite 8, Park Place Building
Inverness, Florida 34450**

INFORMATION FOR BIDDERS - 2

Any envelope received after the time specified will be refused and will be returned unopened to the originator. Note: Citrus County is not considered a "priority area" by some courier services. Prices are FOB destination.

All Bids must be made on the required BID form. All blank spaces for Bid prices must be filled in, in ink or typewritten, and the Bid form must be fully completed and executed when submitted. Only one copy of Bid form is required, UNLESS otherwise stated.

If Bid Tabulation is required, please include a stamped, self-addressed envelope with your Bid Form.

Citrus County Board of County Commissioners is a municipal government that holds a State of Florida Sales Tax Exemption Certificate. All sales/services made directly to Citrus County are exempt provided that payment is made directly to the dealer by Citrus County. Otherwise, the Contractor shall pay all sales, consumer, use and other similar taxes required to be paid by the contractor in accordance with the laws and regulations of the State of Florida, which are applicable during the performance of the work.

The right is reserved to reject any or all bids, to waive any minor irregularity in bids received, to re-advertise for bids, or to table bids. The right is reserved to waive any minor departure from the specifications which do not affect the intended use of the item/services being bid. Any Bid may be withdrawn prior to the above scheduled time for the opening of Bids or authorized postponement thereof.

No Bidder may withdraw a Bid within thirty (30) days after the actual date of the opening thereof. Should there be reasons why the Contract cannot be awarded within the specified period, the time may be extended by mutual agreement between the County and the Bidder.

The bid shall be awarded to the responsible bidder or bidders whose offer will be most advantageous to the County, price and other factors considered.

A conditional or qualified Bid will not be acceptable.

Bidders must satisfy themselves of the accuracy of the scope of service and compensation in the Bid Proposal by examination of the site(s) and a review of the Contract Documents including Addenda as stipulated in the Invitation to Bid. After Bids have been submitted, the Bidder shall not assert that there was a misunderstanding concerning the quantities of work or of the work to be done.

INFORMATION FOR BIDDERS - 3

The Contract Documents contain the provisions required for the implementation of the project. Information obtained from an officer, agent, or employee of the County or any other person shall not affect the risks or obligations assumed by the Contractor or relieve him from fulfilling any of the conditions of the Contract.

The successful bidder will be required to execute the Agreement within ten (10) calendar days from the date when Notice of Award is delivered to the Bidder. The Notice of Award shall be accompanied by the necessary Agreement. In case of failure of the Bidder to execute the Agreement, the County may at its option consider the Bidder in default.

The County, within (10) days of receipt of the Agreement signed by the successful bidder, shall sign the Agreement. Should the County not execute the Agreement within such period, the Bidder may by Written Notice withdraw his signed Agreement. Such notice of withdrawal shall be effective upon receipt of the notice by the County.

The Notice to Proceed shall be issued within ten (10) days of the execution of the Agreement by the County. Should there be reasons why the Notice To Proceed has not been issued within the ten (10) day period or within the period mutually agreed upon, the Contractor may terminate the Agreement without further liability on the part of either party.

The County may make such investigations as it deems necessary to determine the ability of the Bidder to perform the work and the Bidder shall furnish to the County all such information and data for this purpose as the County may request. The County reserves the right to reject any Bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the County that the Bidder is properly qualified to carry out the obligations of the Agreement and to complete the work contemplated therein.

All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over implementation of the project shall apply to the Contract throughout.

**CITRUS COUNTY BOARD OF COUNTY COMMISSIONERS
BID FORM**

We, _____
(Vendor/Bidder Name)

of _____
(Mailing Address)

propose to the Citrus County Board of County Commissioners: To perform all the work described in the Contract Documents for the listed unit prices or lump sums shown in the Bid Form:

**PERMIT REQUIRED CONFINED SPACE ENTRY AND REPAIRS IN TWO
LEACHATE LIFT STATIONS AT THE CENTRAL LANDFILL
BID NO. 97-31**

Item	Description	Est. Qty	Unit	Unit Price	Amount
1.	Enter Lift Stations	1	lump sum		\$ _____
2.	Investigate Conditions	1	lump sum		\$ _____
3.	Remove Equipment	1	lump sum		\$ _____
4.	Remove Liner	_____	hours	_____	\$ _____
5.	Remove Sump Sand	_____	hours	_____	\$ _____
6.	Remove Piping Sand	_____	hours	_____	\$ _____
7.	Propose Repairs	1	lump sum		\$ _____
8.	Perform Repairs		hours	_____	
9.	Replace Equipment	1	lump sum		\$ _____
TOTAL AMOUNT BASE BID (LESS REPAIRS ITEM 8)					\$ _____

TOTAL BASE BID IN WORDS

_____ **DOLLARS**

Bid Form - 2
Bid No. 97-31

I hereby certify that this bid is made without prior understanding, agreement or connection with any corporation, firm or person submitting a bid for the same materials, supplies or equipment and is in all respects fair and without collusion or fraud. I hereby agree to abide by all terms and conditions of this bid and certify that I am authorized to sign this bid for the bidder.

Authorized Signature

Typed Name and Title

Phone and Fax Number

Date

MARK ENVELOPE TO INDICATE COMPANY NAME AND BID NO. AND RETURN TO:

Citrus County Board of County Commissioners
Office of Budget and Financial Analysis
Attn: Cathy Taylor
107 Dr. Martin Luther King, Jr. Ave.
Suite 8, Park Place Building
Inverness, Florida 34450

Proposals submitted via facsimile will be considered non-responsive and will not be accepted.

Bids to be returned by: September 12, 1996, 2:00 p.m. to the Office of Budget and Financial Analysis, att: Cathy Taylor.

Bids to be opened on September 13, 1996, at 9:30 a.m. at the Offices of the Board of County Commissioners located in the Masonic Building, 3rd Floor, 111 W. Main St., Inverness, FL 34450.

Bid Evaluation

Bidders' submittals will be evaluated on completeness, previous experience, proposed project plan and cost. The bid will be awarded to the bidder providing the most advantageous submittal.

Bid Form - 3
Bid No. 97-31

FLORIDA STATUTES SECTION 287.133 (2) (a)

A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity and may not transact business with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, for Category Two for period of 36 months from the date of being placed on the convicted vendor list.

Bidders Submittal Check list:

1. Copy of current Certificate(s) of Insurance
2. Statement of Qualification Submittal Sheets

BID NO. 97-31
STATEMENT OF QUALIFICATIONS

Please complete these forms. If more space is needed in any category, please follow the same format. You may attach additional information.

Experience - Contractor

Describe previous experience in related projects, including location, date(s), contracting entity, contact name, phone number, general scope of services, specifics on work in permit required confined spaces, specifics on work in leachate or sewer lift station rehabilitation. List at least three, but no more than ten, projects. (Use additional sheet(s) of paper if needed.)

Project location: _____ Date: _____

Contracting Entity: _____

Contact Name: _____ Phone: _____

Scope of Service(s): _____

Specifics on Confined Space aspects: _____

Specifics on lift station rehabilitation: _____

Statement of Qualifications -2
Bid No. 97-31

Project location: _____ Date: _____

Contracting Entity: _____

Contact Name: _____ Phone: _____

Scope of Service(s): _____

Specifics on Confined Space aspects: _____

Specifics on lift station rehabilitation: _____

Statement of Qualifications - 3
Bid No. 97-31

Project location: _____ **Date:** _____

Contracting Entity: _____

Contact Name: _____ **Phone:** _____

Scope of Service(s): _____

Specifics on Confined Space aspects: _____

Specifics on lift station rehabilitation: _____

Statement of Qualifications - 4
Bid No. 97-31

Project Approach

Describe proposed project execution, including safety plan.

[illegible]

Statement of Qualifications - 5
Bid No. 97-31

Personnel - Contractor

Name	Title	Project Assignment(s)	Certification,	Training, Date,
------	-------	-----------------------	----------------	-----------------

LIST OF SUBCONTRACTORS

Attach additional sheets as required.

NAME	ADDRESS	DESCRIPTION OF WORK TO BE PERFORMED
------	---------	--

Statement of Qualifications - 7
Bid No. 97-31

Personnel - Subcontractor(s) - list separately by firm

Name	Title	Project Assignment(s)	Training, Date, Certification
------	-------	-----------------------	-------------------------------

Statement of Qualifications - 8
Bid No. 97-31

Safety Equipment/ Supplies

Manufacturer,	Model,	Description/ Purpose	# Units
---------------	--------	----------------------	---------

Statement of Qualifications - 9
Bid No. 97-31

Operational Equipment

Manufacturer,	Model,	Description/Purpose	# Units
---------------	--------	---------------------	---------

BID NO. 97-31
TECHNICAL SPECIFICATIONS

BACKGROUND INFORMATION

The Citrus County Central Landfill is located at 230 W. Gulf to Lake Highway , Lecanto Florida, in Section 1, Township 19 South, Range 21 East. The property consists of two parcels, one a closed landfill site, where this work will be done and an active landfill. The closed site was operated as a landfill from 1975 to 1990. Closure included placement of a plastic cap with two or more feet of soil above. Gas vents with flares were placed in several locations, including the lift stations.

The final disposal cell was constructed in 1989 and covers a 7-acre area. It was constructed with a single HDPE bottom liner, a sand layer which lies directly above the liner serves to protect the liner from waste and to transmit leachate to the two collection lines which each empty into separate sumps at the bottom of the lift stations to be rehabilitated. Reduced copies of selected pages from design drawings prepared by Seaburn and Robertson (1988) are attached (Figures 1-2) to show the liner and leachate collection pipe configuration.

The leachate lift stations were constructed in stages. Figure 3 depicts the intended final configuration and was prepared as "as-built" drawings by Post, Buckley, Schuh and Jernigan (1990). The HDPE sumps were installed during initial construction by the contractor; the concrete risers were installed by County staff as filling progressed; the pumping equipment, controls, lids and discharge piping were installed by another contractor at the time of construction of the now active landfill and leachate treatment plant (1990).

An explosion occurred in the east side lift station in February 1996 and a fire occurred in the west side lift station in March 1996. The conditions which are believed to have caused these incidents have been repaired. The pumping equipment was entirely replaced in July 1996.

D.E.P.

DEC 13 1996

**SOUTHWEST DISTRICT
TAMPA**

Technical Specifications - 2
Bid No. 97-31

At the time of the incidents, County staff began investigations as to the condition of the lift stations and found several problems. Some of these remain.

- FDEP requires that leachate be removed so that no more than one foot of leachate accumulates above the bottom liner, in this case approximate elevation 72 feet (61 foot depth) which is impossible in the current configuration.
- Although the drawings show the pumping equipment located at the bottom of the HDPE sump below the concrete riser rings, sand has accumulated up to at least the level of the bottom of the concrete (approximate elevation 77 feet). Concrete pump bases are not located at the bottom of the sumps.
- Liner material which had been attached to the inside of the concrete risers is known to have come loose and impedes access to the east-side sump. The condition of the liner in the west sump is unknown.
- The source of the sand is unknown, but may include: lack of cleaning/testing after construction, lack of a seal between the landfill bottom liner and the bottom of the sump, unscreened perforations or damage in the sump, unscreened perforations or breaks in the leachate collection line, or a combination of factors.

SCOPE OF SERVICE

Provide all labor, equipment, and materials to:

1. enter two lift stations;
2. investigate the current configuration of the facilities, identify damage or non-conformance to design of the leachate collection facilities.;
3. if necessary remove current pumping equipment;
4. remove any liner material which may obstruct access to the bottom;
5. remove accumulated sand and other debris from the sump;
6. flush sand and other debris from the leachate collection pipe which feeds each sump with a high pressure jet cleaner, and make a recorded video survey of the entire leachate collection pipe. Provide a copy of the video tape to the County.
7. propose repairs to bring the facilities into conformance with original design or FDEP requirements;
8. perform authorized repairs;
9. replace current pumping equipment and return lift stations to service.

D.E.P.

DEC 13 1996

SOUTHWEST DISTRICT
TAMPA

Technical Specifications - 3
Bid No. 97-31

1. Lift Station Entry

The Contractor will provide all labor materials and equipment to enter two leachate lift stations. The County is providing all information contained herein and supplemental information as may be requested in its role as host employer. Each lift station is six feet in diameter, and approximately 56 (east) feet deep in the current configuration. A four foot diameter, eight foot length of HDPE forms the sump. The total depth is 65 to 66 feet. A 2.5 foot square hatch in the concrete lid provides access. The Contractor may elect to remove the entire concrete lid.

During the summer months, through September, afternoon temperatures regularly reach 90 to 95 degrees and thunderstorms are possible any day.

Leachate enters this lift station through a six-inch diameter collector pipe located on the south side of the sump at an approximate depth of 61 to 62 feet. Leachate may also enter through sump perforations or any other opening below the level of accumulated leachate outside the sump. Recent measurements after several days of non-pumping showed a leachate level at 47 foot below the top of the lift station. Leachate quantity data from January, 1995 through July, 1996 is attached as Table One and Leachate Analysis for the February, 1996 sampling is attached as Table Two, as follows:

Technical Specifications - 4
Bid No. 97-31

TABLE ONE

MONTHLY LEACHATE GENERATION

	<u>1995</u>	<u>1996</u>
January	48261	17334
February	38361	14730
March	38785	67104
April	30199	46852
May	26925	30604
June	24064	28717
July	24822	52859
August	19861	
September	22339	
October	19364	
November	14939	
December	13867	

TABLE TWO

LEACHATE ANALYSIS FOR FEBRUARY, 1996

PARAMETER	RESULTS
pH, field	8.48 units
Temperature	15.2 ^C
Conductivity	2950 umhos/cm
Carbonaceous BOD	27.3 mg/l
Chloride	682 mg/l
Chemical Oxygen Demand	198 mg/l
Fecal Coliform	455 cfu/100ml
Sodium	560 mg/l
Nitrogen: Ammonia	0.29 mg/l
Nitrogen: Nitrate	66.2 mg/l
Total Dissolved Solids	2160 mg/l
Nitrogen: Total Kjeldahl	7.61 mg/l
Total Nitrogen	84.1 mg/l
Total Phosphorus	0.17 mg/l
Total Suspended Solids	32 mg/l
Chloroform	<1.0 ug/l
Dichlorobromomethane	<1.0 ug/l
Dibromochloromethane	<1.0 ug/l
Bromoform	<1.0 ug/l
THM's Total	<1.0 ug/l
Benzene	<1.0 ug/l
Toluene	<1.0 ug/l
Ethylbenzene	<1.0 ug/l
Total Xylenes	<1.0 ug/l
Total BTEX	<1.0 ug/l
Silver	<10 ug/l
Arsenic	<5.0 ug/l
Barium	<100 ug/l
Cadmium	<5.0 ug/l
Chromium	<10 ug/l
Iron	310 ug/l
Mercury	<1.10 ug/l
Lead	<5.0 ug/l
Selenium	<5.0 ug/l
EDB	<0.02 ug/l

In addition to the leachate, landfill gas (methane, non-methane organic compounds and carbon dioxide) enters this area and has regularly been measured at or above the LEL for methane. Oxygen levels are normally depleted.

These and perhaps other factors indicate that this is a permit-required confined space entry. The contractor will comply with the provisions of 29 CFR Part 1910. The contractor will provide primary rescue capability. Due to the complexity of the work to be performed, multiple entries will be required.

2. Investigate Current Configuration

Contractor will provide County with description and measurements of current lift station configuration. County will provide a measuring point benchmark. The items of interest include total length of concrete riser, condition of concrete riser, depth and material at first obstruction, condition of plastic liner material, depth to top of HDPE sump, condition of HDPE sump, depth to top of leachate collection line, condition of leachate collection line, depth to bottom liner. Identify and describe damage or differences between current configuration and design

3. Remove Existing Pumping Equipment

The Contractor may remove existing pumping equipment, if necessary for access or to protect the equipment. Leachate levels have recently been measured to rise at least 4 feet in 24 hours. Alternate pumping equipment may be necessary. Stand by equipment should be on site in good operating order.

4. Remove Excess Liner Material

60-mil HDPE liner material was attached to the concrete riser pipe up to six feet above the footer. Where liner material has detached from the concrete, Contractor will remove liner so that access to the sump is not obstructed. The County has an air powered reciprocating saw which may be used by the Contractor.

5. Remove Sand and Debris from Sump

Contractor will remove sand and debris from the sump to expose the HDPE sump and bottom liner. Contractor should be aware that the liner in each sump is the low point for approximately 3.5 acres of landfill and is the only mechanism to prevent leakage of leachate into the environment. Any breach of the liner will require immediate repair and certification of a leak-free condition at the repair point(s).

All liquid, sand and other debris from cleaning the sump must be contained. The liquid portion may be disposed onsite at the leachate treatment plant, at no cost to the Contractor. Sand and other debris may be disposed in the active landfill, after dewatering, at no cost to the Contractor.

6. Remove Sand and Debris from Leachate Collection Line

Contractor will remove sand and other debris from the leachate collection line which extends 350 feet south from each sump. If obstructions are found which cannot be removed, report location and, if possible, nature of blockage. Disposal of removed materials is as in 5. above. Each leachate collection line will be cleaned with a sanitary sewer type high pressure jet cleaner. The Contractor will make a recorded video survey of each leachate collection line and provide a copy of the County. The County will provide all water for this process free of charge.

7. Propose repairs

Contractor will propose a method and cost to the County to bring the lift stations back into compliance with the original design features or an alternate which will meet FDEP requirements. The primary requirement is that leachate not be allowed to accumulate more than one foot above the liner. The County's understanding is that the measuring point is at the edge of the liner sump, in which case the required maximum water level in the pump sump would be 61 feet below the top of the station. Thus the sump needs to be sediment-free for pump placement and continued operation. If that condition cannot be achieved, the County will need to get approval from FDEP for any alternate configuration. Relining the concrete sump may be required.

8. Perform repairs

Contractor will perform repairs as approved by the County and FDEP.

Technical Specifications - 8
Bid No. 97-31

9. Replace current pumping equipment and return lift stations to service.

Contractor will replace current pumping equipment at the lower depth. This will require additional discharge piping. There may be sufficient power and control cable to-accommodate the change. Contractor will reinstall any other equipment, control panels, gas vents, concrete lids, piping or other items which have been disturbed, and if the initial installation was intended to be water-tight or gas-tight, that condition will be restored. Contractor will demonstrate to the County that all pumping and control systems operate as designed.

SPECIAL NOTE: The Contractor is being retained to return this facility to normal operational status meeting FDEP permit requirements.

ADDENDUM NO. 1

**BID FOR CONFINED SPACE ENTRY AND REPAIRS
TO 7-ACRE LIFT STATIONS
BID NO. 97-31**

ISSUED FOR ALL BID DOCUMENT HOLDERS OF RECORD:

This Addendum forms a part of the Bid Documents for the contract as described above.

ADDITION TO THE VENDOR DOCUMENTS INADVERTENTLY OMITTED:

- 1) General Specifications

ALL OTHER ITEMS TO REMAIN THE SAME.

**ISSUED BY: THE CITRUS COUNTY DIVISION OF
SOLID WASTE MANAGEMENT**

Dated this 30th day of August, 1996.

BID NO. 97-31
GENERAL SPECIFICATIONS

1. Compensation

Payment for items 1, 2, 3, 7, and 9 will be on a lump sum basis for each item. Payment for items 4, 5, 6, and 8 will be at an hourly rate for time spent onsite performing each item. Related expenses, such as travel, materials, etc. will be included in the hourly rate. Contractors are required to estimate the time to perform each item except # 8 in their bid. The Contractor will be required to request, in writing, a change order for any item for which the estimated number of hours is exceeded. Board of County Commissioners approval is required for change orders, a two to three week process.

2. Permit for Confined Space Entry

Prior to the performance of any work hereunder, the Contractor shall provide a copy of the EPA required permit for confined space entry in compliance with 29 CFR Part 1910.

3. Changes in Service Requirements:

The Contractor and the Owner may negotiate a change in the required services by agreeing to terms in a written change order.

4. Non-Assignment:

The Contractor shall not assign, sublet or subcontract all or any part of the Agreement without the prior written consent of the County, and no purported assignment by the Contractor shall be binding on the County without such consent, which consent shall not be unreasonably withheld.

5. Insurance:

During the terms of the Agreement and any renewal thereof, the Contractor shall provide and maintain workers compensation insurance for its employees, with statutory limits as required under Florida Statutes. In additions, the Contractor shall provide and maintain comprehensive general liability and automobile liability insurance with minimum limits of \$1,000,000.00. The general liability policy must include a pollution liability endorsement or the contractor must purchase a "stand alone" pollution policy for their operations at this (Citrus County Central Landfill) specific site.

General Specifications - 2
Bid No. 97-31

The comprehensive general liability policy shall name the Citrus County Board of County Commissioners, as an additional insured and shall contain a clause stating that the insurer will not cancel or fail to renew the insurance coverage without first giving the County thirty (30) days prior notice in writing. The Contractor shall provide the County with the Insurance Certificate(s) with the executed Agreement.

6. Contractor Responsibility:

The Contractor shall promptly take all precautions which are necessary and adequate against any conditions created during the progress of his activities hereunder which involve a risk of bodily harm to persons or a risk of damage to any property and shall designate a qualified employee as safety supervisor. The successful bidder shall continuously inspect all work, materials and equipment to discover and determine any such conditions and shall be solely responsible for discovery, determination and correction of any such conditions. The Contractor shall comply with all applicable safety laws, standards, codes, and regulations in the jurisdiction where the work is being performed specifically but without any exemptions provided by law, with all rules, regulations and standards adopted pursuant to the Occupational Safety and Health Act of 1970.

7. Indemnification:

The Contractor shall indemnify and save harmless the County, its officers, employees and agents from all suits, claims or actions of every name and description brought against the County based on personal injury, bodily injury (including death) or property damages (including destruction) received or claimed to be received or sustained by any person or persons arising from or in connection with any negligent act or omission of the Contractor or its employees or agents in performing the services set forth herein.

8. Independent Contractor:

In the performance of this Agreement, the Contractor will be acting in the capacity of an "independent contractor," and not as an agent, employee, partner, joint venture or associate of the County. The Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures utilized by the Contractor in the full performance of this Agreement.

9. Default/Termination:

In the event the Contractor fails to comply with any of the provisions of this Agreement, the County may terminate this Agreement for cause by first notifying the Contractor in writing, specifying the nature of the default and providing the Contractor with a reasonable period of time in which to cure such default. In the event the default shall not be cured within the time period given, the County thereafter may terminate this Agreement upon written notice to the Contractor without the prejudice to the County in terms of any rights or remedies the County may have against the Contractor. In the event of termination for cause, the County will be responsible for compensating the Contractor only for those services satisfactorily performed pursuant to this Agreement up to the Termination Date. Either Party may terminate this Agreement without cause by providing at least fifteen (15) days prior written notice to the other party. In the event of termination of this Agreement without cause, the County will compensate the Contractor for all services satisfactorily performed pursuant to this Agreement up to the date of termination. The Contractor shall not be entitled to loss of anticipated profit under this provisions.

10. Right to Require Performance:

The failure of the County at any time to require performance by the Contractor of any provisions hereof shall in no way affect the right of the County thereafter to enforce the same, nor shall waiver by the County of any breach of any provision hereof be taken or held to be a waiver of any succeeding breach of such provisions, or as a waiver of any provision itself.

11. Time of Essence:

Timely performance of the obligations imposed on the Parties hereunder is hereby made of the essence.

General Specifications - 4
Bid No. 97-31

12. Governing Law:

This Agreement shall be governed in accordance with the laws of the State of Florida. In the event of litigation with respect to the obligation of the parties to this Agreement, the circuit Court of the 5th Judicial Circuit in and for Citrus County shall have exclusive jurisdiction and venue.

13. Construction of Agreement:

The Agreement constitutes the full, complete and only Agreement as of the date hereof between the parties hereto, with respect to the foregoing work and labor; and, anything elsewhere contained in the contrary notwithstanding, whenever there shall be any conflict, latent or otherwise, between the provisions therein set forth and the provisions set forth in this Agreement, the latter shall prevail.

The provisions of this Agreement shall not be changed or altered, except by further written agreement between the parties hereto expressly referring to the provisions thereof so changed or altered. If any part of this Agreement is determined to be judicially unenforceable for any reason, the remainder of this Agreement shall remain in full force and effect.

BID NO. 97-31

AGREEMENT

THIS AGREEMENT, made this ____ day of _____ 1996, by and between

CITRUS COUNTY

HEREINAFTER CALLED "OWNER" and

doing business as (a Corporation, or a partnership, or an individual hereafter called
"CONTRACTOR".

WITNESSETH: That for and in consideration of the payments and agreements
hereafter mentioned:

1. Enter two lift stations, investigate the current configuration of the facilities, if necessary remove current pumping equipment, remove any liner material which may obstruct access to the bottom, remove accumulated sand and other debris from the sump, remove sand and other debris from the leachate collection pipe which feeds each sump, identify damage or non-conformance to design of the leachate collection facilities, propose repairs to bring the facilities into conformance with original design or FDEP requirements, perform authorized repairs, replace current pumping equipment and return the lift stations to service.
2. The Contractor will furnish all of the material, supplies, tools, equipment, labor and other services necessary, not furnished by the owner, for the completion of the project described herein.
3. The Contractor will commence the work required by the Contract Documents within 15 calendar days after the date of the Notice to Proceed and will complete the same within 60 consecutive calendar days after the date of the Notice to Proceed unless the period for completion is extended otherwise by the Contract Documents. The contractor further agrees to pay as liquidated damages, the sum of \$ 300.00 for each consecutive calendar day thereafter.
4. The Owner has determined and declared the above-named Contractor to be the lowest responsible bidder on the above referenced project, and has duly awarded this contract to Said Contractor, for the sum named in the proposed, to wit:

_____ Dollars (\$ _____)

The Owner shall pay the Contractor for the work performed as follows: Payment for unit price items shall be at the unit price bid for actual hours performed and as approved by the Director of Solid Waste Management; Payment for lump sum price items shall be at the lump sum price bid.

Agreement - 2
Bid No. 97-31

5. The Owner shall pay the Contractor in a manner and at such times as set forth in the General Specifications such amounts as required by the Contract Documents.

6. The term "Contract Documents" means and includes the following:

- (a) Invitation to Bid
- (b) Statement of No Bid
- (c) Information for Bidders
- (d) Bid Form
- (e) Statement of Qualifications
- (f) Agreement
- (h) Technical Specifications
- (l) General Specifications
- (j) Change Order
- (k) Notice of Award
- (l) Notice to Proceed
- (m) Addenda:

No. _____ dated _____

7. This agreement shall be binding upon all parties hereto and respective heirs, executors, administrators, successors, and assigns.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement in three copies each of which shall be deemed an original on the date first above written.

CITRUS COUNTY (Owner)

BY: _____

NAME:
CHAIRMAN

ATTEST:

BY: _____

NAME: BETTY STRIFLER
TITLE: CLERK OF COURT

ATTEST:

BY: _____

NAME:
TITLE:

CONTRACTOR

BY: _____

NAME:
TITLE:

Agreement - 3
Bid No. 97-31

CERTIFICATE OF OWNER'S ATTORNEY

I, the undersigned, LARRY M. HAAG, the duly authorized and acting legal representative of Citrus County Board of County Commissioners, do hereby certify as follows:

I have examined the attached contract(s) and the manner of execution thereof, and I am of the opinion that each of the aforesaid agreements has been duly executed by the proper parties said representatives have full power and authority to execute said agreements on behalf of the respective parties named thereon; and that the foregoing agreements constitute valid and legally binding obligations upon the parties executing the same in accordance with terms, conditions, and provisions thereof.

LARRY M. HAAG

DATE: _____

CHANGE ORDER

DATE: _____ BID NO. _____ ORDER NO. _____

PROJECT _____ AGREEMENT DATE: _____

CONTRACTOR _____ OWNER: CITRUS COUNTY

ITEM NO.	DESCRIPTION (AND JUSTIFICATION)	ADD
DEDUCT		

Net Addition or Deduction \$ _____

Original Contract Amount \$ _____

Previously approved change orders \$ _____

CONTRACT AMOUNT INCLUDING THIS CHANGE ORDER AND
PREVIOUSLY APPROVED CHANGE ORDER:

\$ _____

The CONTRACT TIME will be (Increased) (Decreased) by _____
calendar days.

The Date for completion of all work will be

APPROVED BY OWNER

APPROVED BY CONTRACTOR

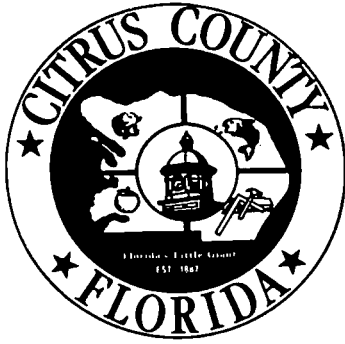
BY: _____

BY: _____

D.E.P.

DEC 13 1996

SOUTHWEST DISTRICT
TAMPA



Board of County Commissioners

Department of Public Works

REPLY TO:

Solid Waste Management
P.O. Box 340
Lecanto, Florida 34460-0340

November 25, 1996

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

D.E.P.
DEC - 3 1996
SOUTHWEST DISTRICT
TAMPA

Re: Citrus County Central Landfill
Permit No. SF09-211030 draft modifications

Dear Mr. Ford:

You have proposed that a specific condition concerning leachate management, tentatively numbered 7, be added to the long term care permit for the 60-acre closed landfill that is essentially the same as the one in our current permit for the active site (Permit SO09-274381, SC 17). One aspect of that requirement (proposed SC7c) is of concern to me as it would be applied to the closed site. That is the requirement to video inspect and perhaps clean the leachate collection lines 180 days prior to permit renewal (before March 1998).

The 7-acre cell, which is the only section of the closed site with a leachate collection system was designed in 1987. The leachate collection system consists of the sand drainage layer above the liner with two perforated collection lines which each gravity drain to a collection sump. A vertical shaft in excess of 60 feet deep connects each sump to the surface. Pumps located in the sumps remove collected leachate and deliver it to the rest of the leachate storage and treatment system. Pressure testing of the solid lines in the leachate collection/transmission system can be done. Testing, removal and replacement of the pumps can be done from the surface, however inspection of the collection lines would require permit required confined space entry. By contrast, the design of leachate collection systems for Phase 1 and Phase 1A of the active site allow cleaning access at the surface. The cost to clean the Phase 1 leachate lines this year was about \$8,000 for about 3,200 feet of collection pipe.

Administrative Office
Post Office Box 167
Lecanto, Florida 34460
(352) 746-4107
Fax 746-1203

Facilities Maintenance
Post Office Box 143
Lecanto, Florida 34460
(352) 527-0333
Fax 527-0654

Fleet Management
Post Office Box 215
Lecanto, Florida 34460
(352) 746-6888
Fax 746-1203

Road Maintenance
Post Office Box 167
Lecanto, Florida 34460
(352) 746-4107
Fax 746-1203

Solid Waste Management
Post Office Box 340
Lecanto, Florida 34460
(352) 746-5000
Fax 527-1204

Kim Ford
November 25, 1996
Page 2

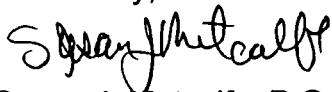
We expect to perform inspection of the leachate collection system for the 7-acre cell within the next few months and have a bid of about \$50,000 to enter, inspect and clean two access points and about 700 feet of collection line. Finding a qualified bidder was difficult; and the best qualified firm is from out of state. In addition there have been difficulties getting them a license to work in Florida from the Construction Industry Licensing Board.

We are unsure whether the project we intend to perform, which I believe is what the proposed specific condition requires for the leachate collection system, will be successful. I hesitate to recommend acceptance of a permit condition if we do not know whether it can be done. On the other hand, if it is successful, and we can demonstrate from visual inspection that the collection system is performing adequately in early 1997, I believe alternate methods can be used to demonstrate continued adequate operation, at the time of permit renewal in early 1998.

I would like to request that proposed Specific Condition 7.c. be modified to read: "At least one hundred eighty (180) days prior to permit expiration, the entire leachate collection and removal system, force mains and gravity pipelines shall be evaluated to verify performance. The methods of evaluation may include pressure testing, video inspection, cleaning, statistical review of onsite and/or offsite leachate collection data or other approaches. Components not performing adequately shall be repaired, where possible. If repairs are not possible, the permittee shall propose measures to maintain performance at an alternate measurable standard. The results of the evaluation demonstrating adequate performance, remedial measures and/or alternate standards shall be submitted to the Solid Waste Section of the Southwest District Office prior to permit renewal."

Please contact me if you have any questions.

Yours truly,



Susan J. Metcalfe, P.G.
Director

CC: Gary Kuhl, Director, Public Works Department
Robert Butera, FDEP, Tampa

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 11/6/96

Subject CITRUS LF

Time 3:35

Permit No. _____

County _____

M SUMMERZALFE

Telephone No. _____

Representing CITRUS

☒ Phoned Me ☐ Was Called ☐ Scheduled Meeting ☐ Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

Summary of Conversation/Meeting _____

① I TOLD HER J WOODS
WILL PROVIDE CLARIFICATION ON CON SPEC

② WE DISCUSSED LEAS INSPECTION ON
CLOSED 7 AC LF. SHE WILL
DISCUSS INSPECTION REPORT IF ADEQUATE
PERFORMANCE WITH J WOODS AND
CALL BACK

③ I ASKED FOR CONTRACTOR NAME
AND EXPLANATION FOR HOW HE
KNOWS LINER IS REPAIRED ADEQUATELY
SHE WILL CALL AND ASK ABOUT TESTS.

(continue on another
sheet, if necessary)

Signature E L J

Title _____

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 11/4/96

Subject LTC permit

Time 9:10

Permit No. _____

County Citrus

M. Susie Metcalfe

Telephone No. 352/7465000

Representing Citrus Co Solid Waste

☒ Phoned Me ☒ Was Called ☐ Scheduled Meeting ☐ Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

Summary of Conversation/Meeting _____

1- change rule ref 17 → 62
24 " "

zc - She will try this, but she thinks
it will be tough w/ access to
horizontal pipes since they're
@ the base of a 60' pit. She
has found a company in Michigan
(problem is confined space entry 60'
down)

12/11 - cl called Susie to see what was up
w/ remaining issue. She will send a letter
to Kem today, hopefully
that will resolve
condition
7b.

(continue on another sheet, if necessary)

Signature Allison Amram

Title PGI

SPECIFIC CONDITIONS:

DRAFT

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

c. One hundred and eighty (180) days prior to permit expiration, the entire leachate collection and removal system, force mains and gravity pipelines, shall be video inspected and pressure tested where possible to verify adequate performance. Components not performing adequately shall be cleaned and/or repaired. The results of the inspection and testing shall be submitted to the Solid Waste Section of the Southwest District Office to demonstrate adequate performance prior to permit renewal.

8. Groundwater Monitoring conditions were transferred to the operating permit No. SO09-274381 on October 28, 1996.
Amended _____.

9. Deleted _____.
10. Deleted _____.
11. Deleted _____.
12. Deleted _____.
13. Deleted _____.
14. Deleted _____.
15. Deleted _____.
16. Deleted _____.
17. Deleted _____.
18. Deleted _____.
19. Deleted _____.
20. Deleted _____.
21. Deleted _____.
22. Deleted _____.
23. Deleted _____.

J Wood/ Catra Hall
will review
Sun will
con about
week
11/19/96



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

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

June 26, 1996

RE: Citrus County Landfill Financial Assurance Cost Estimates
Permit Nos.: SO09-187229 and SF09-211030, Citrus County

Dear Ms. Metcalfe:

This letter is to acknowledge receipt of the additional information dated June 7, 1996 (received June 10, 1996), submitted in support of the cost estimates for long-term care of the Citrus County Landfill old Closed 60-acre portion.

Pursuant to FAC 62-701.610(6), if only a portion of the landfill has been closed, the long-term care period will begin upon the closing of the entire landfill, unless the portion which has been closed can be monitored and maintained separately from the rest of the landfill. Since the old closed 60-acre portion is not monitored separately, for the purposes of the financial assurance requirements of FAC 62-701.630, the Department does not consider that the long-term care period has begun. However, please be reminded that pursuant to FAC 62-701.630(5)(d)2. owners or operators of government-owned landfills are only required to deposit sufficient funds to cover the following year's long-term care costs (after the long-term care period has begun) for the closed portions of the site. Please contact Mr. Fred Wick at (904) 488-0300 for more information concerning the required funding.


The following cost estimates are APPROVED for 1996:

	<u>Acreage</u>	<u>Closure</u>	<u>Long-term care</u>
Phase 1 & 1A August 31, 1995	18.3 acres	\$2,032,751	\$311,146/yr x 30 years \$9,334,380 total
Closed 60-Acre June 7, 1996	49.6 acres	N/A	\$43,236/yr x 30 years \$1,297,080 total

Since the mechanism used for the financial assurance is an escrow account, the next annual update (revised or inflation-adjusted) estimates is due no later than September 1, 1997.

If you have any questions, you may contact me at (813) 744-6100 ext. 386.

Sincerely,


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

sjp

cc: Gary Kuhl, P.E., Director, Citrus Co. Dept. of Public Works, PO Box 340, Lecanto, Fl. 34461
R.J. Bruner III, P.E., CH2M Hill, 3011 SW Williston Road, Gainesville, Fl. 32608-3928
Fred Wick, FDEP, Tallahassee, w/attachment
Robert Butera, P.E., FDEP Tampa
Steve Morgan, FDEP Tampa
Kim Ford, P.E., FDEP Tampa

To Preserve and Manage Florida's Environment and Natural Resources"



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

June 6, 1996

Ms. Susan Metcalfe, P.G.
Solid Waste Management
Post Office Box 340
Lecanto, Florida 34460

RE: Unused Structure Demolition/Training Burn
Permit No.: SF09-211030, Citrus County

Dear Ms. Metcalfe:

In response to your May 14, 1996 letter, the Solid Waste Section has no objection to the proposed "training burn" and disposal of the burn debris in a permitted construction and demolition debris disposal facility. However, you are advised to contact Mr. Rodney Phillips of the Air Section at (813) 744-6100, extension 124 to provide any information or documentation which may be required by the Department's air regulations. Please ensure that the Fire Department is aware of the location of the landfill gas flares and methane vents prior to the burn.

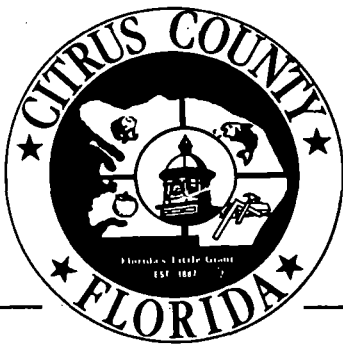
If you have any questions you may call me at (813) 744-6100, extension 382.

Sincerely,

Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

KBF/br

cc: Robert Butera, P.E.. FDEP Tampa
Rodney Phillips, FDEP Tampa - Air Section



Board of County Commissioners

Department of Public Works

Post Office Box 167, Lecanto, Florida 34460

(352) 746-4107

FAX (352) 746-1203

May 14, 1996

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

REPLY TO:

Solid Waste Management
P.O. Box 340
Lecanto, Florida 34460

MAY 17 1996

Department of Environmental Protection
SOUTHWEST DISTRICT

AIR ISSUE
Can J. M. 2/10/6

Re: Citrus County Central Landfill
Permit No. SF09-211030
Unused structure demolition

Dear Mr. Ford:

The barn storage structure located on the closed 60-acre landfill has been determined to be of no use to the County or to Forestry. We wish to demolish the structure. We have notified Forestry of our intent and will be requesting permission for a training burn prior to demolition. Before burning, we will remove and shingles, rubber, plastic and asphalt. The burn debris will be disposed at a C & D landfill in Citrus County. During your site visit today, you indicated that no DEP permit is required for this activity. I would appreciate a written confirmation. Thank you.

Yours truly,

Susan J. Metcalfe

Susan J. Metcalfe, Director
Division of Solid Waste Management

cc: Gary Kuhl, Dir. Dept. of Public Works

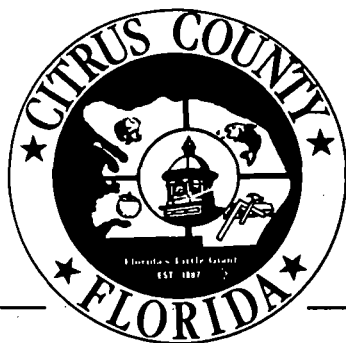
Facilities Maintenance
Post Office Box 143
Lecanto, Florida 34460
(352) 527-0333 Fax 352-746-0656

Fleet Management
Post Office Box 215
Lecanto, Florida 34460
(352) 746-6888 Fax 746-1203

Road Maintenance
Post Office Box 167
Lecanto, Florida 34460
(352) 746-4107 Fax 746-1203

Solid Waste Management
Post Office Box 340
Lecanto, Florida, 34460
(352) 746-5000 Fax 527-1204





Board of County Commissioners

Department of Public Works

Post Office Box 167, Lecanto, Florida 34460

(352) 746-4107

FAX (352) 746-1203

REPLY TO:

Solid Waste Management

P.O. Box 340

Lecanto, Florida 34460

April 26, 1996

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

D.E.P.

APR 30 1996

**SOUTHWEST DISTRICT
TAMPA**

Re: Citrus County Central Landfill
Permit No. SG09-244030- SFO -
Groundwater Contamination Assessment

Dear Ms. Amram:

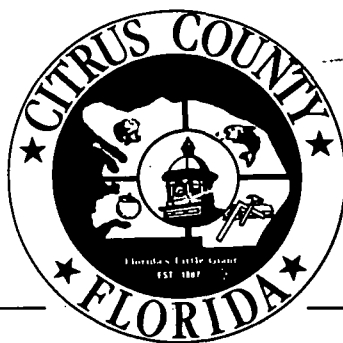
I am pleased to submit three copies of the Contamination Assessment Report prepared by CH2M HILL for the closed 60-acre landfill. Results of this year-long study indicate that groundwater flow is to the west at a rate of 0.03 ft/day. Very low levels of vinyl chloride continue to appear in downgradient monitoring wells AA and E at the west-central part of the property. We are requesting that no additional actions be required beyond continued monitoring.

If you have any questions, please contact me. If necessary, we can arrange a meeting or teleconference to discuss the results of this study.

Yours truly,

Susan J. Metcalfe, Director
Division of Solid Waste Management

cc: Gary Kuhl, Dir. Dept. of Public Works
John Wood, CH2M HILL, Deerfield
Marty Clasen, CH2M HILL, Tampa
Steve Tsangaris, CH2M HILL, Tampa



Board of County Commissioners

Department of Public Works

Post Office Box 167, Lecanto, Florida 34460

FAX (352) 746-1203

RECEIVED
MAR 28 1996

REPLY TO:

Solid Waste Management

P.O. Box 340

Lecanto, Florida 34460

Department of Environmental Protection
SOUTHWEST DISTRICT

March 26, 1996

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

Re: Citrus County Central Landfill
Permit SF09-211030
Leachate Lift Station

Dear Mr. Ford:

As we discussed on the phone yesterday, the west side lift station on the closed 60-acre landfill had a fire on Friday, March 22, 1996. Obvious damage occurred to the foam seal around the leachate piping, the HDPE leachate piping and electrical wiring insulation. The County has requested W.E.S., Inc. investigate damage to lift station internal components. The investigation should be complete within two days. Repairs will begin as soon as the Board authorizes this emergency work. We intend to report the results of the investigation and the repairs together with those for the east side lift station which is also having repairs made.

If you have any questions, please contact me.

Yours truly,

Susan J. Metcalfe

Susan J. Metcalfe, Director
Division of Solid Waste Management

cc: Gary Kuhl, Dir. Dept. of Public Works

Facilities Maintenance
Post Office Box 143
Lecanto, Florida 34460
(352) 527-0333 Fax 352-746-0656

Fleet Management
Post Office Box 215
Lecanto, Florida 34460
(352) 746-6888 Fax 746-1203

Road Maintenance
Post Office Box 167
Lecanto, Florida 34460
(352) 746-4107 Fax 746-1203

Solid Waste Management
Post Office Box 340
Lecanto, Florida, 34460
(352) 746-5000 Fax 527-1204





Board of County Commissioners

Department of Public Works

Post Office Box 167, Lecanto, Florida 34460

(352) 746-4107

FAX (352) 746-1203

RECEIVED
MAR - 6 1996

REPLY TO:

Solid Waste Management

P.O. Box 340

Lecanto, Florida 34460

February 29, 1996

Kim B. Ford, P.E.

Solid Waste Section

Department of Environmental Protection

3804 Coconut Palm Drive

Tampa, Florida 33619

Department of Environmental Protection
SOUTHWEST DISTRICT

BY

*Adison
57650*

Re: Citrus County Central Landfill

Permit No. SC09-211030

Closed 60-acre site

Dear Mr. Ford:

This report is a followup to recent phone conversations concerning the east leachate lift station on the closed 7-acre lined cell which is part of the closed landfill site. Landfill staff first observed a problem with the lift station on February 17, 1996 when broken concrete pieces from the lid were found in the vicinity and the electrical circuit breaker was tripped. It is our interpretation that an explosion had occurred in the lift station.

County staff further investigated conditions during the next week and discovered that several items will require repair before the facility will be functional. This work will require the services of an outside contractor. A contractor (W.E.S., Inc.) has been obtained on an emergency basis and has started work.

The lid and pumping assembly have been removed and a temporary pump has been installed to remove the accumulated leachate. The depth to leachate was measured as 42 feet below the top of the east lift station. This would indicate an approximate depth above the bottom of the sump of about 22 feet, according to the as-built drawings. The leachate level in the west side lift station was about 52 feet below the top of the lift station today.

The temporary pump will be retained until the regular pump can be repaired or replaced. All equipment will be inspected and tested prior to being placed back in service to assure it is operating properly and is safe. We will provide a more detailed report of activities when they are complete, including a summary of our evaluation of

Facilities Maintenance

Post Office Box 143

Lecanto, Florida 34460

(352) 527-3333 Fax 352-746-0656

Fleet Management

Post Office Box 215

Lecanto, Florida 34460

(352) 746-6888 Fax 746-1203

Road Maintenance

Post Office Box 167

Lecanto, Florida 34460

(352) 746-4107 Fax 746-1203

Solid Waste Management

Post Office Box 340

Lecanto, Florida, 34460

(352) 746-5000 Fax 527-1204



Kim B. Ford
February 29, 1996
Page 2

causes of the conditions encountered. We will also discuss the effectiveness of the leachate collection and removal system in the 7-acre cell. Please let me know if you have other questions.

Yours truly,

A handwritten signature in cursive script, reading "Susan J. Metcalfe".

Susan J. Metcalfe, Director
Division of Solid Waste Management

cc: Gary Kuhl, Dir. Dept. of Public Works
Robert Butera, FDEP, Tampa

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 3/25/96 Subject Tank Closure Unit

Time 3:30 Permit No. _____

County CITRUS

M Susan Metcalfe Telephone No. _____

Representing CITRUS County

☒ Phoned Me ☐ Was Called ☐ Scheduled Meeting ☐ Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

Summary of Conversation/Meeting _____

MS METCALFE SAID THERE WAS A FIRE IN
THE WEST PUMP STATION ON MONDAY.

REPORT WILL COME FOLLOWING AN EVALUATION
CONTRACTOR ON-SITE NOW TO CORRECT AND FIX.

(continue on another
sheet, if necessary)

Signature [Signature]

Title _____

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 2/29/96 Subject 7 AC CLOSED UNIT
Time 11 AM Permit No. _____
County CLINTON
M S ROSAL METCALFE Telephone No. (352) 776 5000
Representing CLINTON COUNTY
[] Phoned Me [☒] Was Called [] Scheduled Meeting [] Unscheduled Meeting
Other Individuals Involved in Conversation/Meeting _____

Summary of Conversation/Meeting _____

I RETURN MS METCALFE'S CALL

MS METCALFE EXPLAINED THAT THE BROKEN
PUMP IN THE 7 AC CLOSED UNIT WILL BE REPLACED TODAY.

I ASKED ABOUT LEACHATE DEPTH

MS METCALFE SAID LEACHATE IS 20' DEEP OVER LINER

I ASKED WHY SINCE THERE IS A 2ND PUMP

MS METCALFE WILL EVALUATE

I ASKED MS METCALFE TO PROVIDE IN WRITING AN
EXPLANATION OF THE PUMP FAILURE AND AN EVALUATION
OF LEACHATE OVER LINER AND COMPLIANCE WITH 1 FOOT OR LESS.

MS METCALFE WILL RESPOND IN WRITING

(continue on another
sheet, if necessary)

Signature [Signature]

Title _____

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 2/21/96 Subject Canon Lawful
Time 9:15 Permit No. _____
County Crow
M S. Sosa - WFLA Telephone No. _____
Representing Crow Co

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

Other Individuals Involved in Conversation/Meeting _____

Summary of Conversation/Meeting 7:42 Closed LE

Sosa said explosion in East pump station
broke lid got both pump OK and are
operated manually daily. Contractor
coming to inspect & repair.

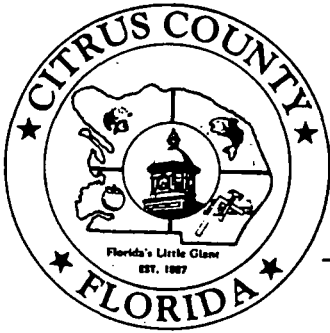
Operation Renewal

Sosa will send ACT procedure copy to R. T. Haden

(continue on another
sheet, if necessary)

Signature [Signature]

Title _____



Board of County Commissioners

Department of Public Works

Post Office Box 167, Lecanto, Florida 34460

(904) 746-4107

Fax (904) 746-1203

RECEIVED
OCT 13 1995

REPLY TO:

P.O. Box 340

Lecanto, FL 34460-0340

October 10, 1995

Allison Amram, P.G.
Environmental Specialist
Solid Waste Section
Dept. of Environmental Protection
3804 Coconut Palm Drive
Tampa, FL 33619

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

RE: Citrus County Central Landfill
Permit SF09-211030
Groundwater Contamination Assessment

Dear Allison:

As you requested, an update of activities for the first six months of the Groundwater Contamination Assessment for the closed landfill has been prepared. The status report and a data report on the results of hydraulic conductivity testing, prepared by CH2M Hill, are attached. The final report (CAR) will be submitted when the year-long water quality data collection is completed.

If you have any questions, please give me a call.

Yours truly,

Susan J. Metcalfe

Susan J. Metcalfe, Director
Division of Solid Waste Management

SJM:cms

cc: Gary W. Kuhl, Dir. Dept. Public Works
John J. Wood, CH2M Hill
Marty Clasen, CH2M Hill

*Report not sealed -
CAR will be -
will eval. CARs
when sealed
CAR submitted*

*AA
10/25*

Facilities Maintenance
Post Office Box 143
Lecanto, Florida 34460
(904) 527-0333 Fax 527-0654

Fleet Management
Post Office Box 215
Lecanto, Florida 34460
(904) 746-6888 Fax 746-1203

Road Maintenance
Post Office Box 167
Lecanto, Florida 34460
(904) 746-4107 Fax 746-1203

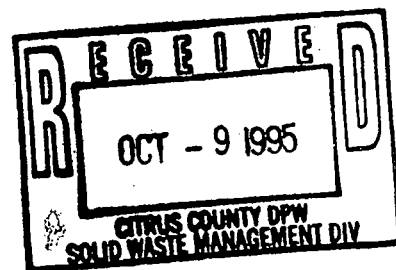
Solid Waste Management
Post Office Box 340
Lecanto, Florida 34460
(904) 746-5000 Fax 527-1204



October 5, 1995

103352.14.ZZ

Susan Metcalfe
Citrus County Division of Solid Waste
P.O. box 340
Lecanto, FL 34460



Dear Susan:

Subject: Summary of CAP Tasks

Introduction

A Contamination Assessment Plan (CAP) for Citrus County's closed 60 - acre landfill was submitted to the Florida Department of Environmental Protection (FDEP) on April 14, 1995. The CAP was approved by the FDEP on May 12, 1995. Six tasks were presented in the CAP. The status of work completed for the six tasks is presented below.

Task 1 - Collection and Evaluation of Existing Data and Reports

Existing reports and data have been obtained from Citrus County and reviewed. Applicable information from these reports will be incorporated into the Contamination Assessment Report (CAR).

Task 2 - Well Inventory

A well inventory was recently completed by Citrus County. Information from Water Use Permits and Well Construction Permits were obtained from the Southwest Florida Water Management District. The well inventory data will be reviewed and a copy of this inventory will be submitted with the CAR.

Susan Metcalfe
Page 2
October 5, 1995
103352.14.ZZ

Task 3 - Evaluation of Existing Monitoring Wells

The six existing monitoring wells were evaluated in September of 1995 for acceptability for continued groundwater monitoring. Construction diagrams were obtained and the wells were sounded to compare present depth with reported original depth. A table showing well construction details will be presented in the CAR.

Task 4 - Hydrologic Testing

Slug tests were performed on wells MW-AA, MW-D, MW-E, MW-R-1, and MW-3 in September of 1995. Hydraulic conductivity values for non-limestone wells averaged 15 ft/day. Details of the slug testing and analysis will be presented in the CAR. A memorandum summarizing the results of the slug tests is attached.

Task 5 - Groundwater Elevation Measurement

Water levels were measured in the six monitoring wells at the site in September of 1995. Groundwater flow direction and rate will be presented in the CAR. Additional data are also presented in the GWMP.

Task 6 - Sampling and Analysis of Groundwater

Two quarterly groundwater sampling events have been completed. Sampling events occurred in April of 1995 and July of 1995. After one year of sampling data have been obtained, the results will be incorporated into the CAR.

Sincerely,

CH2M HILL



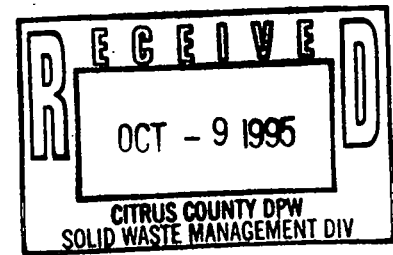
Marty Clasen
Hydrogeologist

cclf

c: J. Wood

cclf

TO: Marty Clasen/TPA
COPIES: John Wood/DFB
FROM: Paul Smith/TPA
DATE: September 13, 1995
SUBJECT: Citrus County Central Landfill - Summary and Results of Hydrogeologic (Slug) Testing
PROJECT: 103352.18.ZZ



Introduction

In order to fulfill requirements of the Citrus County Central Landfill Contamination Assessment Report, hydrogeologic testing was performed to estimate horizontal hydraulic conductivities and corresponding groundwater flow velocities within the upper portion of the aquifer across the site. The following memorandum presents a summary of the site-specific hydrogeology, a description of hydrogeologic testing, and the results of testing related to the estimation of the above parameters.

Hydrogeology

The surficial sediments in the vicinity of the landfill site are primarily composed of interbedded, irregular deposits of sands, silts, and clays. The presence of sand with silts and clays results in a moderate to low aquifer permeability which decreases with increasing silt and clay content. Underlying the sandy silts and clays is the Hawthorn Formation. The Hawthorn Formation consists of an upper layer of low permeability phosphatic clay and a lower, more permeable layer of weathered marine limestone. Below the Hawthorn Formation is the limestone of the Suwannee and Ocala Formations.

The upper clay layer of the Hawthorn Formation generally serves as a confining layer between the surficial and lower aquifers. However, in the vicinity of the landfill site, the Hawthorn Formation is reported to be absent. As a result, no significant hydraulic confinement exists between the surficial sediments and the limestone of the Upper Floridan aquifer.

The direction of groundwater flow across the site is primarily from east to west. The magnitude of the hydraulic gradient averages approximately 0.001 ft/ft (September 1993 and April 1994). The magnitude and direction of the hydraulic gradient does not vary significantly seasonally.

MEMORANDUM

Page 2

September 13, 1995

103352.18.

Description of Hydrogeologic Testing

Horizontal hydraulic conductivity tests were performed at select monitor wells surrounding the 60-acre closed landfill and the 80-acre landfill expansion. The five monitor wells included in the testing were MW-R-1, MW-D, MW-E, MW-AA, and MW-3. Monitor wells MW-B and MW-C, located near the southern boundary of the 60-acre closed landfill, were originally proposed for testing, however, installed pumps at each of these wells prevented access. Therefore, monitor well MW-3, located at the southern boundary of the 80-acre site, was substituted in the testing plan. The construction details of these wells are summarized in Table 1. As shown in Table 1, all wells are 2-inch diameter wells which are completed into the undifferentiated surficial sediments except well MW-D. MW-D is a 4-inch diameter well completed into higher permeability limestone.

Horizontal hydraulic conductivity (slug) testing was performed in the monitor wells on September 8, 1995. The horizontal hydraulic conductivity is determined by measuring the rate of recovery to the original water level after a volume of water has been suddenly displaced. To record water levels, a 15 psig pressure transducer connected to a HermitTM model SE1000B data logger was utilized. The transducer was lowered to approximately 10 feet below the water surface, where well depth permitted. For the 2-inch diameter wells, a 1.5-inch diameter by 5.5-foot long cylindrical solid (slug) was then lowered to below the water table and water levels were allowed to equilibrate (a 3.75-inch diameter by 6-foot long slug was used for MW-D). The slug was then suddenly removed while simultaneously starting the data logger. The response in the well was recorded at a logarithmic sample interval for a minimum of ten minutes or until the rate of rise in water level equilibrated.

The above procedure involves measurement of water recovery following removal of the slug and is termed "slug out" testing. "Slug in" testing can also be performed by measuring the rate of water level recovery immediately following the introduction of the slug below the water surface. The "slug in" procedure is often conducted in addition to the "slug out" procedure to confirm testing results. However, due to the large depth to water of approximately 100 feet or more, slug position was difficult to determine, making the "slug in" procedure impractical. Therefore, the "slug out" procedure was conducted twice for all wells (Runs 1 and 2) to confirm results.

Results of Testing

Results of the slug testing are summarized in Table 2. As shown in the table, the two test runs for all wells but MW-D were fairly repeatable, with the percent difference between runs at approximately 10% or less. Horizontal hydraulic conductivity values ranged from 0.06 ft/day at well MW-R-1 to 800 ft/day at well MW-D. The reported hydraulic conductivities for well MW-D were much higher than the other wells due to the completion of this well into

Table 1
Citrus County Landfill
Hydrogeologic Testing
Well Construction Details

Well I.D.	Well Casing Dia. (2rc,in.)	Borehole Diameter (2rw, in.)	Casing Stick-up Height (ft)	Total Depth (TD, ft btoc ¹)	Depth To Water (DTW, ft btoc ¹)	Length of Well Submergence (Lw, ft)	Length of Screen (ft)	Length of Submerged Screen (Le, ft.)	Height of Water in Aquifer ² (H, ft)
MW R-1	2	6	2.85	124.5	111.34	13.16	20	13.16	13.16
MW-D	4	10 ? ³	1.5	208	103.18	104.82	20	20	104.82
MW-E	2	8	2.42	117.58	102.86	14.72	20	14.72	14.72
MW-AA	2	6	1.45	115.8	99.45	16.35	10	10	16.35
MW-3	2	6	0.41	118.3	112.18	6.12	15	6.12	6.12

Notes:

¹ btoc - below top of casing

² Wells assumed to be fully penetrating

³ Estimate borehole diameter, data not provided in well construction diagram

Table 2
Citrus County Landfill
Hydrogeologic (Slug) Testing
Results

Well I.D.	Run 1		Run 2		Percent Difference Runs 1 and 2	Average	
	Horizontal Hydraulic Conductivity (K, ft/day)	Horizontal Hydraulic Conductivity (K, cm/sec)	Horizontal Hydraulic Conductivity (K, ft/day)	Horizontal Hydraulic Conductivity (K, cm/sec)		Average K Runs 1 and 2 (ft/day)	Average K Runs 1 and 2 (cm/sec)
MW R-1	0.06	2.16E-05	0.07	2.36E-05	9.5	0.06	2.26E-05
MW-D ¹	297.	1.05E-01	800.	2.82E-01	169.4	548.	1.93E-01
MW-E	56.7	2.00E-02	62.7	2.21E-02	10.6	59.7	2.11E-02
MW-AA	2.83	9.98E-04	2.83	9.98E-04	0.0	2.83	9.98E-04
MW-3	0.37	1.31E-04	0.38	1.32E-04	1.1	0.37	1.32E-04
Overall Average	71.4	2.52E-02	173	6.11E-02	38.1	122	4.31E-02
Non-Limestone ² Average	15.0	5.29E-03	16.5	5.82E-03	5.3	15.7	5.55E-03

Notes:

¹ Monitor well MW-D is completed into limestone

² Non-Limestone average includes all wells except MW-D

MEMORANDUM

Page 5

September 13, 1995

103352.18.

limestone of relatively high permeability, as compared to the surficial sediments of the other four wells. The overall average hydraulic conductivity for all wells was 122 ft/day, whereas the average hydraulic conductivity for the wells not completed into limestone (all wells but MW-D) was 15.7 ft/day. Details of the slug test analyses are attached.

Based on an average hydraulic conductivity (K) of the surficial sediments of 15.7 ft/day, a westward hydraulic gradient (i) of 0.001 ft/ft, and an assumed effective porosity (n) of 0.2 (typical for sand), the groundwater velocity (v) can be estimated from the following equation:

$$v = K i / n = (15.7 \text{ ft/d}) (0.001 \text{ ft/ft}) / 0.2 = 0.08 \text{ ft/d to the west}$$

The results of this calculation indicate the groundwater flow velocity within the surficial sediments is relatively low and would result in groundwater movement of approximately 30 feet per year under current conditions.

Attachment
Calculations and Analyses

CH2M HILL

SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD

Well ID: MW R-1, RUN 1

	Value
Radius of casing, r_c (in.)	1.00
Radius to undisturbed aquifer, r_w (in.)	3.00
Length of well submergence, L_w (ft.)	13.16
Length of submerged screen, L_e (ft.)	13.16
(If $L_w < L_e$, let $L_e = L_w$)	
Height of water in aquifer, H (ft.)	13.16
Initial (max.) water level drawdown from static, $y(0)$ (ft.) (y -intercept)	2.26

If $L_w \leq L_e$, porosity, n , of the gravel/sandpack must
be accounted for in the radius of the casing, r_c :

Porosity of sandpack, n (fraction)	0.20
(if porosity unknown, type "ND")	
Adjusted radius of casing, r'_c :	
$r'_c = ((1-n)r_c^2 + n(r_w^2))^{1/2}$	
r'_c (ft.) =	0.134

From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as:

$$K = (r_c^2 \ln(Re/r_w)) / (2L_e (1/t) \ln(y(0)/y(t)))$$

where: t = time (min)

y = drawdown from static water level

Re = effective radial distance over which y (drawdown) is dissipated

The value of $\ln(Re/r_w)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($L_w < H$):

$$\ln(Re/r_w) = (1.1 / \ln(L_w/r_w)) + (A + B \ln((H - L_w) / r_w) / (L_e / r_w))^{*-1}$$

where A and B are obtained from data curves

$$L_e / r_w = 52.64$$

$$A =$$

$$L_e / r_w = 52.64$$

$$B =$$

==== If the well is fully penetrating:

$$\ln(Re/r_w) = (1.1 / \ln(L_w/r_w)) + C / (L_e / r_w)^{*-1}$$

where C is obtained from a data curve

$$L_e / r_w = 52.64$$

$$C = 2.70$$

Since the well is fully penetrating:

$$\ln(Re/r_w) = 3.04$$

From the semi-log drawdown vs. time plot:

$$Y\text{-intercept, } y(0) \text{ (feet.)} = 2.26$$

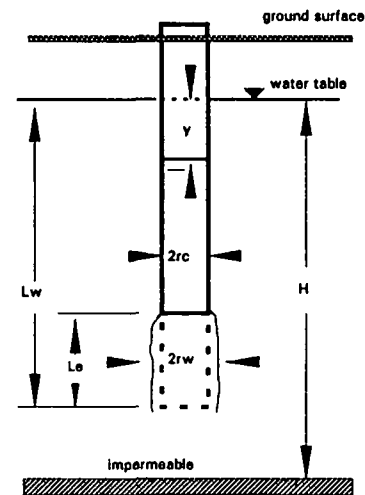
$$Y\text{-value, } y(t), \text{ at time, } t, \text{ (feet.)} = 2.00$$

$$\text{Time, } t \text{ (min.)} = 6.00$$

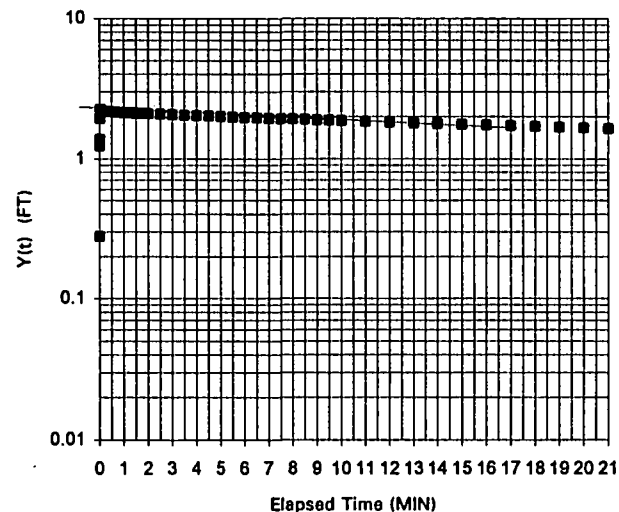
Solving for horizontal hydraulic conductivity, K :

$$K = 6.12E-02 \text{ ft/day} \quad K = 2.16E-05 \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > L_w - L_e$, a double straight-line
effect may be noted in the water level response curve: Double straight-line may occur



Citrus Co. Landfill
R-1 Slug Test - Run 1



CH2M HILL**SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL
HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD**

Well ID: MW R-1, RUN 2

	Value
Radius of casing, r_c (in.)	1.00
Radius to undisturbed aquifer, r_w (in.)	3.00
Length of well submergence, L_w (ft.)	13.16
Length of submerged screen, L_e (ft.)	13.16
<i>(If $L_w < L_e$, let $L_e = L_w$)</i>	
Height of water in aquifer, H (ft.)	13.16
Initial (max.) water level drawdown from static, $y(0)$ (ft.) (y -intercept)	2.00

If $L_w \leq L_e$, porosity, n , of the gravel/sandpack must
be accounted for in the radius of the casing, r_c :

Porosity of sandpack, n (fraction) 0.20

(if porosity unknown, type "ND")

Adjusted radius of casing, r'_c :

$$r'_c = ((1-n)r_c^{**2} + n(r_w^{**2}))^{**1/2}$$

 r'_c (ft.) = 0.134From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as:

$$K = (r_c^{**2} (\ln(R_e/r_w)) / 2L_e) (1/t) (\ln(y(0)/y(t)))$$

where: t = time (min) y = drawdown from static water level R_e = effective radial distance over which y (drawdown) is dissipatedThe value of $\ln(R_e/r_w)$ depends on the penetration of the well into the aquiferIf the well is partially penetrating ($L_w < H$):

$$\ln(R_e/r_w) = (1.1 / \ln(L_w/r_w)) + (A + B \ln((H - L_w) / r_w) / (L_e / r_w))^{*-1}$$

where A and B are obtained from data curves

$$L_e / r_w = 52.64$$

$$A =$$

$$L_e / r_w = 52.64$$

$$B =$$

==== If the well is fully penetrating:

$$\ln(R_e/r_w) = (1.1 / \ln(L_w/r_w)) + C / (L_e / r_w)^{*-1}$$

where C is obtained from a data curve

$$L_e / r_w = 52.64$$

$$C = 2.70$$

Since the well is fully penetrating:

$$\ln(R_e/r_w) = 3.04$$

From the semi-log drawdown vs. time plot:

$$Y\text{-intercept, } y(0) \text{ (feet.)} = 2.00$$

$$Y\text{-value, } y(t), \text{ at time, } t, \text{ (feet.)} = 1.60$$

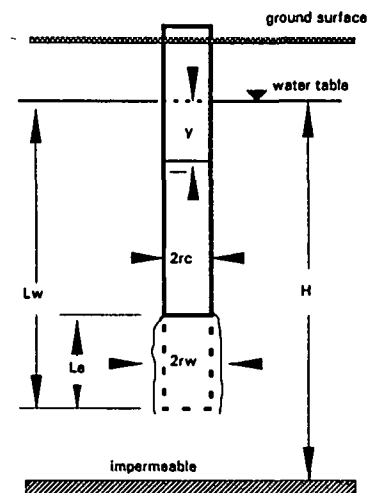
$$\text{Time, } t \text{ (min.)} = 10.00$$

Solving for horizontal hydraulic conductivity, K :

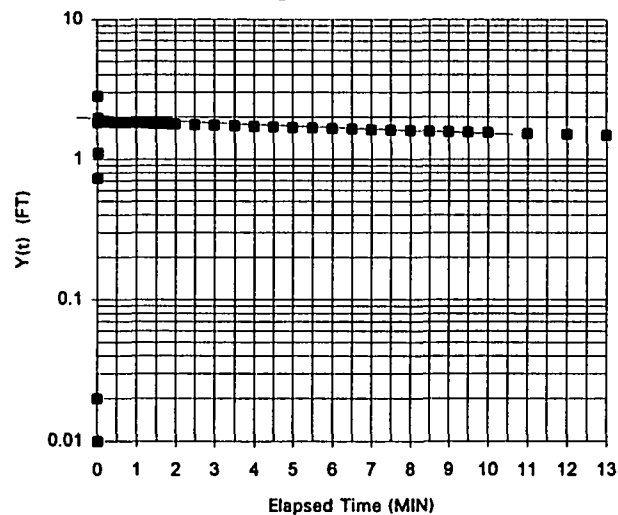
$$K = 6.70E-02 \text{ ft/day}$$

$$K = 2.36E-05 \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > L_w - L_e$, a double straight-line
effect may be noted in the water level response curve: Double straight-line may occur



Citrus Co. Landfill
R-1 Slug Test - Run 2



CH2M HILL

SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD

Well ID: MW-D, RUN 1

	Value
Radius of casing, r_c (in.)	2.00
Radius to undisturbed aquifer, r_w (in.)	5.00
Length of well submergence, L_w (ft.)	104.82
Length of submerged screen, L_e (ft.)	20.00
(If $L_w < L_e$, let $L_e = L_w$)	
Height of water in aquifer, H (ft.)	104.82
Initial (max.) water level drawdown from static, $y(0)$ (ft.) (y -intercept)	3.25

If $L_w \leq L_e$, porosity, n , of the gravel/sandpack must be accounted for in the radius of the casing, r_c :

Porosity of sandpack, n (fraction)	0.20
(if porosity unknown, type "ND")	
Adjusted radius of casing, r'_c :	
$r'_c = ((1-n)r_c^2 + n(r_w^2))^{1/2}$	
r'_c (ft.) =	0.167 No adjustment performed

From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as:

$$K = (r_c^2 \ln(Re/r_w) / 2L_e) (1/t) (\ln(y(0)/y(t)))$$

where: t = time (min)

y = drawdown from static water level

Re = effective radial distance over which y (drawdown) is dissipated

The value of $\ln(Re/r_w)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($L_w < H$):

$$\ln(Re/r_w) = (1.1 / \ln(L_w/r_w) + (A + B \ln((H - L_w) / r_w) / (L_e / r_w)))^{*-1}$$

where A and B are obtained from data curves

$$L_e / r_w = 48$$

$$A =$$

$$L_e / r_w = 48$$

$$B =$$

==== If the well is fully penetrating:

$$\ln(Re/r_w) = (1.1 / \ln(L_w/r_w) + C / (L_e / r_w))^{*-1}$$

where C is obtained from a data curve

$$L_e / r_w = 48$$

$$C = 2.63$$

Since the well is fully penetrating:

$$\ln(Re/r_w) = 3.94$$

From the semi-log drawdown vs. time plot:

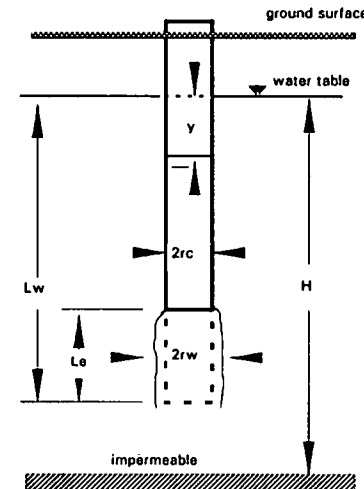
Y-intercept, $y(0)$ (feet.) =	3.25
Y-value, $y(t)$, at time, t , (feet) =	0.34
Time, t (min) =	0.03

Solving for horizontal hydraulic conductivity, K :

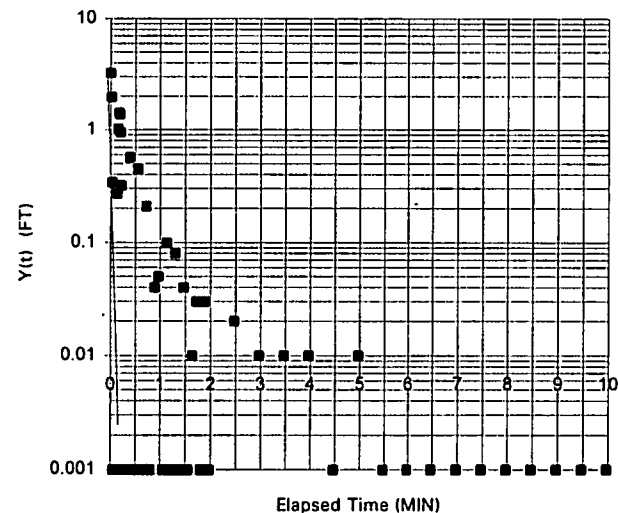
$$K = 2.97E+02 \text{ ft/day} \quad K = 1.05E-01 \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > L_w - L_e$, a double straight-line effect may be noted in the water level response curve:

Double straight-line should not occur



Citrus Co. Landfill
MW-D Slug Test - Run 2



CH2M HILL

SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD

Well ID: MW-D, RUN 2

	Value
Radius of casing, rc (in.)	2.00
Radius to undisturbed aquifer, rw (in.)	5.00
Length of well submergence, Lw (ft.)	104.82
Length of submerged screen, Le (ft.)	20.00
(If Lw < Le, let Le = Lw)	
Height of water in aquifer, H (ft.)	104.82
Initial (max.) water level drawdown from static, y(0) (ft.) (y-intercept)	3.35

If Lw <= Le, porosity, n, of the gravel/sandpack must
be accounted for in the radius of the casing, rc:

Porosity of sandpack, n (fraction)	0.20
(if porosity unknown, type "ND")	
Adjusted radius of casing, r'c:	
$r'c = ((1-n)rc^2 + n(rw^2))^{1/2}$	
r'c (ft.) =	0.167 No adjustment performed

From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as:

$$K = (rc^2 \cdot 2 \ln(Re/rw)) / (2Le) (1/t) (\ln(y(0)/y(t)))$$

where: t = time (min)

y = drawdown from static water level

Re = effective radial distance over which y(drawdown) is dissipated

The value of ln(Re/rw) depends on the penetration of the well into the aquifer

If the well is partially penetrating (Lw < H):

$$\ln(Re/rw) = (1.1 / \ln(Lw/rw)) + (A + B \ln((H - Lw) / rw) / (Le / rw))^{*-1}$$

where A and B are obtained from data curves

$$Le / rw = 48$$

$$A =$$

$$Le / rw = 48$$

$$B =$$

==== If the well is fully penetrating:

$$\ln(Re/rw) = (1.1 / \ln(Lw/rw)) + C / (Le / rw)^{*-1}$$

where C is obtained from a data curve

$$Le / rw = 48$$

$$C = 2.63$$

Since the well is fully penetrating:

$$\ln(Re/rw) = 3.94$$

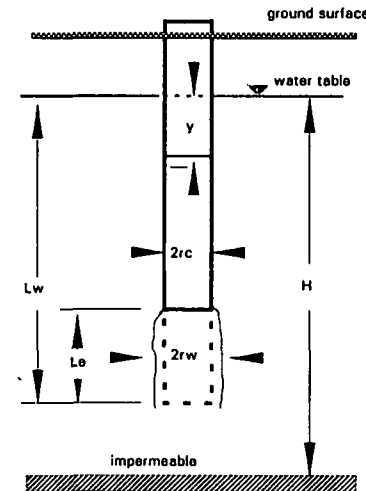
From the semi-log drawdown vs. time plot:

Y-intercept, y(0) (feet.) =	3.35
Y-value, y(t), at time, t, (feet) =	0.001
Time, t (min) =	0.04

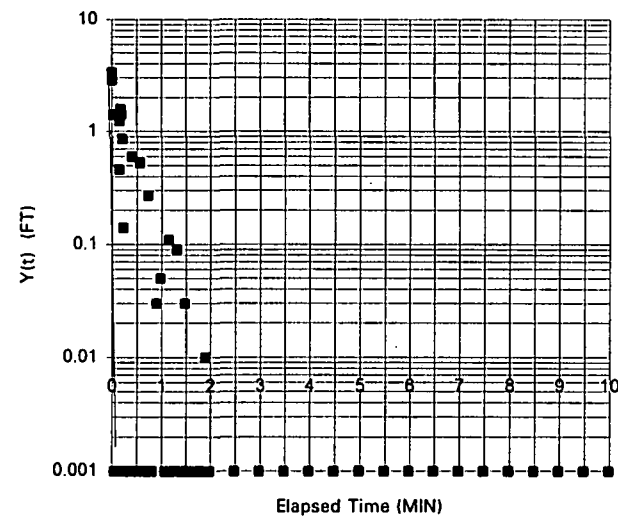
Solving for horizontal hydraulic conductivity, K:

$$K = 8.00E+02 \text{ ft/day} \quad K = 2.82E-01 \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, y(0) > Lw - Le, a double straight-line
effect may be noted in the water level response curve: Double straight-line should not occur



Citrus Co. Landfill
MW-D Slug Test - Run 2



CH2M HILL

SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD

Well ID: MW-E, RUN 1

	Value
Radius of casing, rc (in.)	1.00
Radius to undisturbed aquifer, rw (in.)	4.00
Length of well submergence, Lw (ft.)	14.72
Length of submerged screen, Le (ft.)	14.72
<i>(If Lw < Le, let Le = Lw)</i>	
Height of water in aquifer, H (ft.)	14.72
Initial (max.) water level drawdown from static, y(0) (ft.) (y-intercept)	0.30

If $L_w \leq L_e$, porosity, n, of the gravel/sandpack must
be accounted for in the radius of the casing, rc:

Porosity of sandpack, n (fraction)	0.20
<i>(if porosity unknown, type "ND")</i>	
Adjusted radius of casing, r'c:	
$r'c = ((1-n)rc^2 + n(rw^2))^{1/2}$	
r'c (ft.) =	0.167

From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as:

$$K = (rc^2 \ln(Re/rw) / 2Le) (1/t) (\ln(y(0)/y(t)))$$

where: t = time (min)

y = drawdown from static water level

Re = effective radial distance over which y(drawdown) is dissipated

The value of $\ln(Re/rw)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($L_w < H$):

$$\ln(Re/rw) = (1.1 / \ln(Lw/rw) + (A + B \ln((H - Lw) / rw) / (Le / rw)))^{*-1}$$

where A and B are obtained from data curves

$$Le / rw = 44.16$$

$$A =$$

$$Le / rw = 44.16$$

$$B =$$

==== If the well is fully penetrating:

$$\ln(Re/rw) = (1.1 / \ln(Lw/rw) + C / (Le / rw))^{*-1}$$

where C is obtained from a data curve

$$Le / rw = 44.16$$

$$C = 2.57$$

Since the well is fully penetrating:

$$\ln(Re/rw) = 2.87$$

From the semi-log drawdown vs. time plot:

$$Y\text{-intercept, } y(0) \text{ (feet.)} = 0.30$$

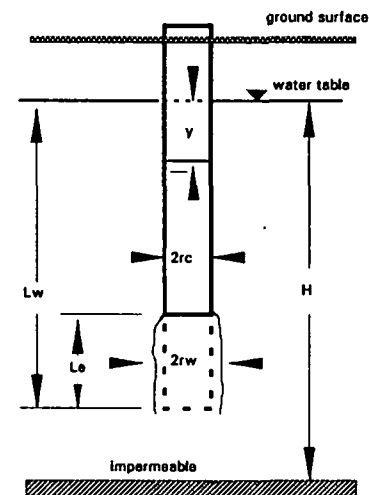
$$Y\text{-value, } y(t), \text{ at time, } t, \text{ (feet.)} = 0.07$$

$$\text{Time, } t \text{ (min.)} = 0.10$$

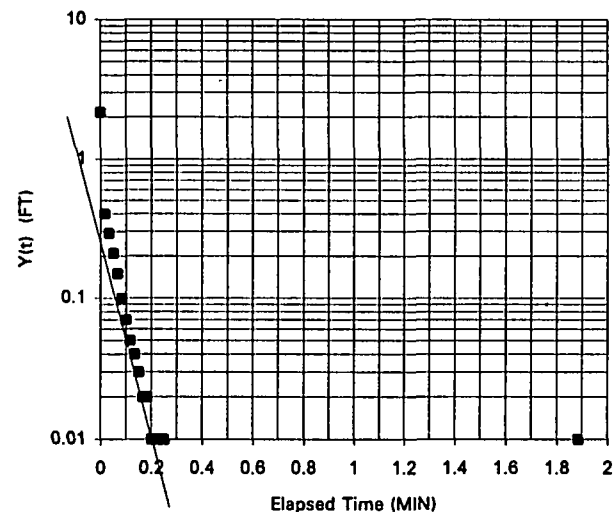
Solving for horizontal hydraulic conductivity, K:

$$K = 5.67E+01 \text{ ft/day} \quad K = 2.00E-02 \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > Lw - Le$, a double straight-line
effect may be noted in the water level response curve: Double straight-line may occur



Citrus Co. Landfill
MW-E Slug Test - Run 1



CH2M HILL

SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD

Well ID: MW-E, RUN 2

	Value
Radius of casing, rc (in.)	1.00
Radius to undisturbed aquifer, rw (in.)	4.00
Length of well submergence, Lw (ft.)	14.72
Length of submerged screen, Le (ft.)	14.72
(If $L_w < L_e$, let $L_e = L_w$)	
Height of water in aquifer, H (ft.)	14.72
Initial (max.) water level drawdown from static, y(0) (ft.) (y-intercept)	0.50

If $L_w \leq L_e$, porosity, n, of the gravel/sandpack must
be accounted for in the radius of the casing, rc:

Porosity of sandpack, n (fraction) (if porosity unknown, type "ND")	0.20
Adjusted radius of casing, r'c: $r'c = ((1-n)rc^2 + n(rw^2))^{0.5}$	
r'c (ft.) =	0.167

From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as:

$$K = (rc^2 \ln(Re/rw)) / (2Le) (1/t) (\ln(y(0)/y(t)))$$

where: t = time (min)

y = drawdown from static water level

Re = effective radial distance over which y(drawdown) is dissipated

The value of $\ln(Re/rw)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($L_w < H$):

$$\ln(Re/rw) = (1.1 / \ln(Lw/rw)) + (A + B \ln((H - Lw) / rw) / (Le / rw))^{*-1}$$

where A and B are obtained from data curves

$$Le / rw = 44.16$$

$$A =$$

$$Le / rw = 44.16$$

$$B =$$

==== If the well is fully penetrating:

$$\ln(Re/rw) = (1.1 / \ln(Lw/rw)) + C / (Le / rw)^{*-1}$$

where C is obtained from a data curve

$$Le / rw = 44.16$$

$$C =$$

$$2.57$$

Since the well is fully penetrating:

$$\ln(Re/rw) = 2.87$$

From the semi-log drawdown vs. time plot:

Y-intercept, y(0) (feet.) =

$$0.50$$

Y-value, y(t), at time, t, (feet) =

$$0.10$$

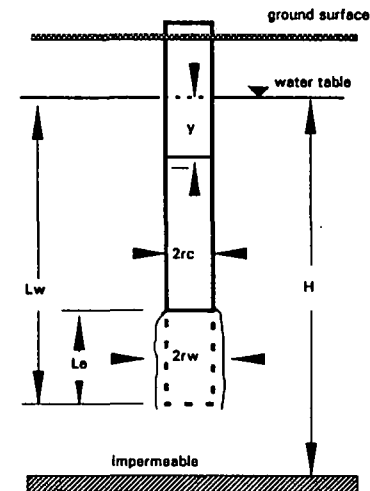
Time, t (min) =

$$0.10$$

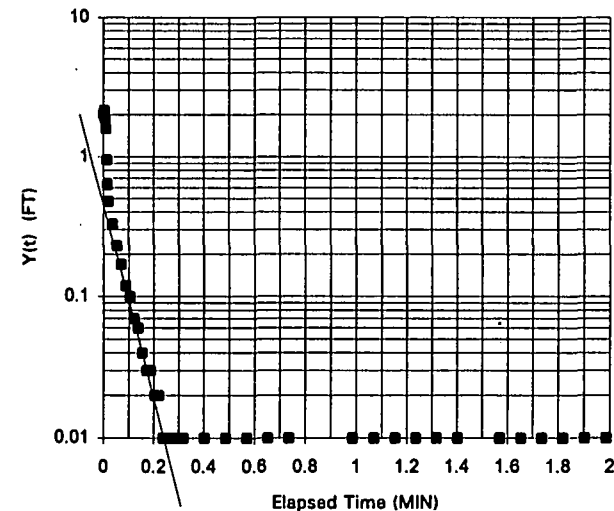
Solving for horizontal hydraulic conductivity, K:

$$K = 6.27E+01 \text{ ft/day} \quad K = 2.21E-02 \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > Lw - Le$, a double straight-line
effect may be noted in the water level response curve: Double straight-line may occur



Citrus Co. Landfill
MW-E Slug Test - Run 2



CH2M HILL

SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL / HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD

Well ID: MW-AA, RUN 1

	Value
Radius of casing, rc (in.)	1.00
Radius to undisturbed aquifer, rw (in.)	3.00
Length of well submergence, Lw (ft.)	16.35
Length of submerged screen, Le (ft.)	10.00
(If $L_w < L_e$, let $L_e = L_w$)	
Height of water in aquifer, H (ft.)	16.35
Initial (max.) water level drawdown from static, y(0) (ft.) (y-intercept)	2.70

If $L_w \leq L_e$, porosity, n, of the gravel/sandpack must
be accounted for in the radius of the casing, rc:

Porosity of sandpack, n (fraction)	0.20
(if porosity unknown, type "ND")	
Adjusted radius of casing, r'c:	
$r'c = ((1-n)rc^2 + n(rw^2))^{1/2}$	
r'c (ft.) =	0.083 No adjustment performed

From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as:

$$K = (rc^2 \ln(Re/rw) / 2Le) (1/t) (\ln(y(0)/y(t)))$$

where: t = time (min)

y = drawdown from static water level

Re = effective radial distance over which y(drawdown) is dissipated

The value of $\ln(Re/rw)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($L_w < H$):

$$\ln(Re/rw) = (1.1 / \ln(Lw/rw) + (A + B \ln((H - Lw) / rw) / (Le / rw)))^{*-1}$$

where A and B are obtained from data curves

$$Le / rw = 40$$

$$A =$$

$$Le / rw = 40$$

$$B =$$

==== If the well is fully penetrating:

$$\ln(Re/rw) = (1.1 / \ln(Lw/rw) + C / (Le / rw))^{*-1}$$

where C is obtained from a data curve

$$Le / rw = 40$$

$$C = 2.40$$

Since the well is fully penetrating:

$$\ln(Re/rw) = 3.09$$

From the semi-log drawdown vs. time plot:

$$Y\text{-intercept, } y(0) \text{ (feet.)} = 2.70$$

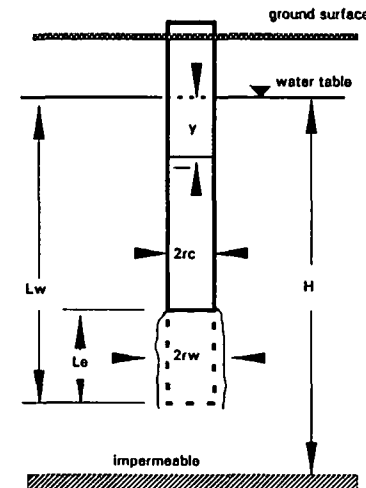
$$Y\text{-value, } y(t), \text{ at time, } t, \text{ (feet.)} = 0.90$$

$$\text{Time, } t \text{ (min)} = 0.60$$

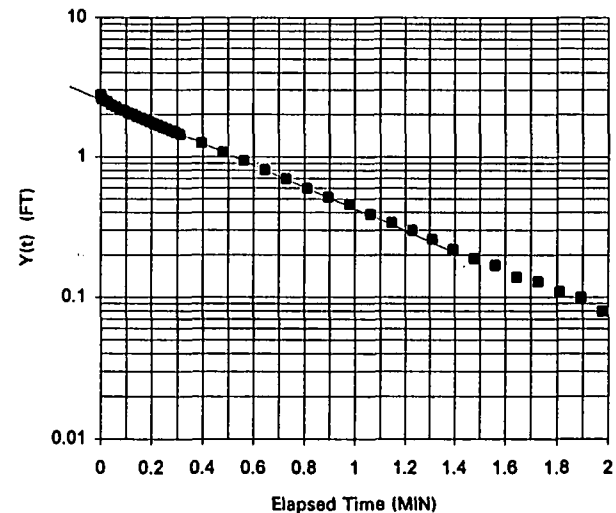
Solving for horizontal hydraulic conductivity, K:

$$K = 2.83E+00 \text{ ft/day} \quad K = 1.00E-03 \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > Lw - Le$, a double straight-line
effect may be noted in the water level response curve: Double straight-line should not occur



Citrus Co. Landfill
MW-AA Slug Test - Run 1



CH2M HILL

SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD

Well ID: MW-AA, RUN 2

	Value
Radius of casing, rc (in.)	1.00
Radius to undisturbed aquifer, rw (in.)	3.00
Length of well submergence, Lw (ft.)	16.35
Length of submerged screen, Le (ft.)	10.00
(If Lw < Le, let Le = Lw)	
Height of water in aquifer, H (ft.)	16.35
Initial (max.) water level drawdown from static, y(0) (ft.) (y-intercept)	3.00

If Lw <= Le, porosity, n, of the gravel/sandpack must
be accounted for in the radius of the casing, rc:

Porosity of sandpack, n (fraction) 0.20

(if porosity unknown, type "ND")

Adjusted radius of casing, r'c:

$$r'c = ((1-n)rc^2 + n(rw^2))^{1/2}$$

r'c (ft.) = 0.083 No adjustment performed

From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as:

$$K = (rc^2 \ln(Re/rw) / 2Le) (1/t) (\ln(y(0)/y(t)))$$

where: t = time (min)

y = drawdown from static water level

Re = effective radial distance over which y(drawdown) is dissipated

The value of ln(Re/rw) depends on the penetration of the well into the aquifer

If the well is partially penetrating (Lw < H):

$$\ln(Re/rw) = (1.1 / \ln(Lw/rw) + (A + B \ln((H - Lw) / rw) / (Le / rw)))^{*-1}$$

where A and B are obtained from data curves

$$Le / rw = 40$$

$$A =$$

$$Le / rw = 40$$

$$B =$$

==== If the well is fully penetrating:

$$\ln(Re/rw) = (1.1 / \ln(Lw/rw) + C / (Le / rw))^{*-1}$$

where C is obtained from a data curve

$$Le / rw = 40$$

$$C = 2.40$$

Since the well is fully penetrating:

$$\ln(Re/rw) = 3.09$$

From the semi-log drawdown vs. time plot:

Y-intercept, y(0) (feet.) = 3.00

Y-value, y(t), at time, t, (feet.) = 1.00

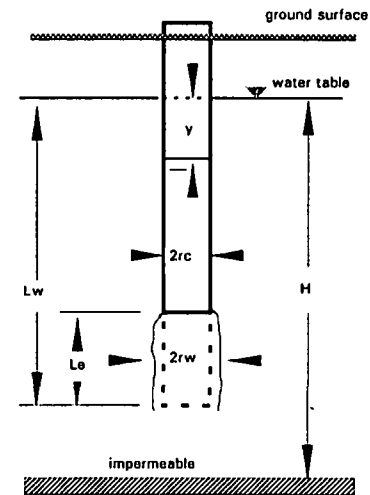
Time, t (min) = 0.60

Solving for horizontal hydraulic conductivity, K:

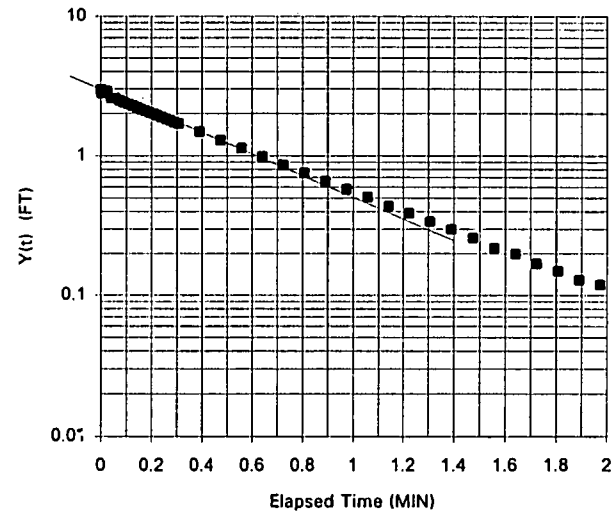
$$K = 2.83E+00 \text{ ft/day} \quad K = 1.00E-03 \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, y(0) > Lw - Le, a double straight-line
effect may be noted in the water level response curve:

Double straight-line should not occur



Citrus Co. Landfill
MW-AA Slug Test - Run 2



CH2M HILL

SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD

Well ID: MW-3, RUN 2

	Value
Radius of casing, r_c (in.)	1.00
Radius to undisturbed aquifer, r_w (in.)	3.00
Length of well submergence, L_w (ft.)	6.12
Length of submerged screen, L_e (ft.)	6.12
(If $L_w < L_e$, let $L_e = L_w$)	
Height of water in aquifer, H (ft.)	6.12
Initial (max.) water level drawdown from static, $y(0)$ (ft.) (y -intercept)	0.30

If $L_w \leq L_e$, porosity, n , of the gravel/sandpack must
be accounted for in the radius of the casing, r_c :

Porosity of sandpack, n (fraction) (if porosity unknown, type "ND")	0.20
Adjusted radius of casing, r'_c :	
$r'_c = ((1-n)r_c^2 + n(r_w^2))^{1/2}$	
r'_c (ft.) =	0.134

From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as:

$$K = (r_c^2 \cdot 2 \ln(R_e/r_w)) / (2L_e) (1/t) (\ln(y(0)/y(t)))$$

where: t = time (min)

y = drawdown from static water level

R_e = effective radial distance over which y (drawdown) is dissipated

The value of $\ln(R_e/r_w)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($L_w < H$):

$$\ln(R_e/r_w) = (1.1 / \ln(L_w/r_w)) + (A + B \ln((H - L_w) / r_w))^{*-1}$$

where A and B are obtained from data curves

$$L_e / r_w = 24.48$$

$$A =$$

$$L_e / r_w = 24.48$$

$$B =$$

==== If the well is fully penetrating:

$$\ln(R_e/r_w) = (1.1 / \ln(L_w/r_w)) + C / (L_e / r_w)^{*-1}$$

where C is obtained from a data curve

$$L_e / r_w = 24.48$$

$$C =$$

Since the well is fully penetrating:

$$\ln(R_e/r_w) = 2.40$$

From the semi-log drawdown vs. time plot:

Y -intercept, $y(0)$ (feet.) =

0.30

Y -value, $y(t)$, at time, t , (feet.) =

0.20

Time, t (min) =

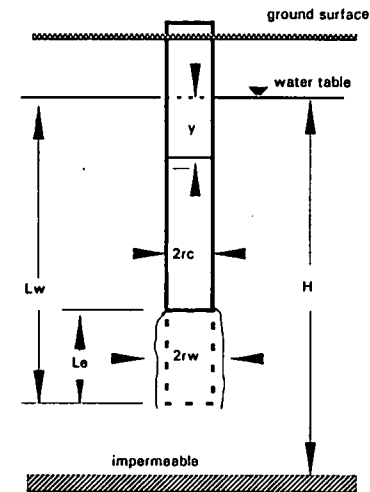
5.50

Solving for horizontal hydraulic conductivity, K :

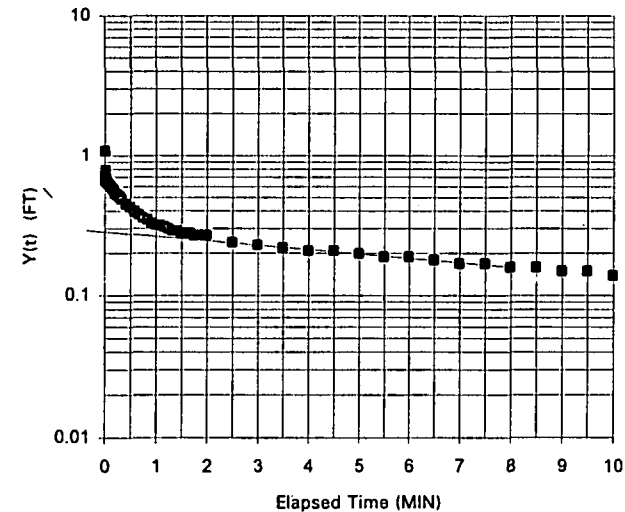
$$K = 3.75E-01 \text{ ft/day}$$

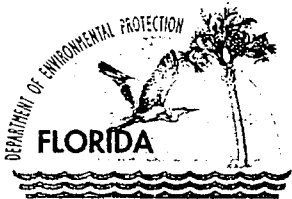
$$K = 1.32E-04 \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > L_w - L_e$, a double straight-line
effect may be noted in the water level response curve: Double straight-line may occur



Citrus Co. Landfill
MW-3 Slug Test - Run 2





Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

*Citrus so permit
File*

June 6, 1995

Susan Metcalfe
Department of Public Works
Division of Solid Waste Management
P.O. Box 340
Lecanto, FL 34460-0340

Subject: Water Quality Monitoring Reporting
Citrus County Central LF Longterm/Citrus County Class I SLF Expansion
Permit Nos.SF09-211030/SO09-187229, Citrus County

Dear Ms. Metcalfe:

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

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

Several items on the forms appear to be confusing. On the page with the certification statement, the "GMS #" is the facility identification number used in the GMS database. For your facility, this number is 4009C00086.

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

Ms. Susan Metcalfe
June 6, 1995
Page 2

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

Facility GMS # 4009C00086 (The GMS Identification Number)

<u>Well Name</u>	<u>Test Site ID #</u>
Well #3 (B-3)	4009A15910
Well #2 (B-2)	4009A15909
Well #1 (B-1) {Abandoned}	4009A15908
Monitor Well C	4009A13196
Monitor Well B	4009A13195
Monitor Well A {Abandoned}	4009A13194
Monitor Well D (Supply Well)	4009A11578
MW-1R	4009A17267
MW-4	4009A17268
MW-5	4009A17269
MW-6	4009A17270
MW-AA	4009A17271

MW-E will be assigned a test site ID number once the well completion reports are submitted to this office.

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

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

Sincerely,



Allison Amram, P.G.
Solid Waste Section

Attachments

cc: Bob Butera, P.E., FDEP

(9) Water quality monitoring reporting.

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

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

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

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

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

Specific Authority: 403.061, 403.704, F.S.

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

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



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

May 12, 1995

Susan Metcalfe, P.G.
Citrus County Department of Public Works
Division of Solid Waste Management
P.O. Box 340
Lecanto, Florida 34460-0340

Subject: Contamination Assessment Plan
Citrus County Closed 60-acre site
Permit No. SF09-211030

Dear Susan:

The Department has reviewed the Contamination Assessment Plan for the closed 60-acre Citrus landfill, dated April 20, 1995. This proposed assessment plan is acceptable for the site. In this report, please show the location of wells MW-AA and MW-E with respect to the closed depression shown in Figure 1-1. Also, please discuss any effect this depression may have on groundwater movement in the local area.

If you should have any questions, please contact me at 831/744-6100, ext. 336.

Sincerely,

Allison Amram, P.G.
Solid Waste Section

cc: Martin J. Clasen, P.G., CH2M Hill
Bob Butera, P.E., FDEP
Steve Morgan, FDEP



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

May 3, 1995

Ms. Susan Metcalfe, P.E.
Citrus County
Solid Waste Management
Post Office Box 340
Lecanto, FL 34460-6340

Re: Soil Stockpile and Leachate Storage Tank
SF09-211030 and SO09-187229
Citrus County

Dear Ms. Metcalfe:

Stockpiling soil on the closed 60 acre landfill requires a minor modification of the current long-term care permit SF09-211030 in accordance with F.A.C. 62-4.050(4)(q)5, which requires a \$250 fee. This was expressed in DEP's March 20, 1995 letter to Mr. Panozzo.

Installation of the Leachate Storage Tank requires a separate construction permit according to F.A.C. 62-4.050(4)(h)11. and \$1000 fee, or may be included with the construction permit application for the proposed landfill expansion.

Construction has not been authorized by the Department for these two components of the landfill submitted on April 10, 1995. The Department's review will be delayed until the requests for approval are submitted with the required processing fees. Design changes may be necessary for Department approval. If you have any questions you may call me at (813) 744-6100, extension 382.

Sincerely,

Kim B. Ford, P.E.
Solid Waste Program
Division of Waste Management

KBF/ab

cc: Gary Kuhl, P.E., Citrus County
Robert Butera, P.E., FDEP Tampa



Contamination Assessment Plan

Prepared for

**Citrus County
Central Landfill**

CITRUS COUNTY, FLORIDA

Prepared by

CHM HILL

April 14, 1995
FLE39450.18

RECEIVED
APR 21 1995

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

Professional Geologist

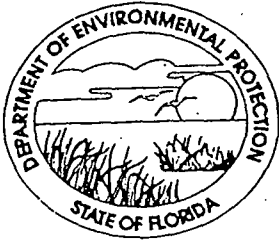
I hereby state that I have reviewed the geological services required in preparation of this Contamination Assessment Plan for the Citrus County Central Landfill, and based upon my knowledge, information, and belief, this Plan has been prepared in accordance with commonly accepted procedures consistent with applicable standards and practice, and is not a guaranty or warranty, either expressed or implied.

Martin J. Clasen
Martin J. Clasen, P.G.

PG 0000027
License No.

4-20-95

Date



Florida Department of Environmental Protection

Southwest District

Lawton Chiles, Governor

3804 Coconut Palm Dr.

813-744-6100

Tampa, Florida 33619

Virginia Wetherell, Secretary

DATE: 3-28-95

TIME: 10:30

SUBJECT: Citrus Co Landfill; Discussion of groundwater
CAP

A T T E N D E E S

Name

Affiliation

Telephone

Allison Amman

FDEP

813/744-6100 x 336

Steve Tsangaris

CH2M HILL

813/281-0777

Marty Clasen

11

11

Sue Metcalfe

Citrus County

904-746-5000

STEVE MORGAN

FOEP

(813) 744-6100 ext 365

Agenda

Citrus Co. Landfill - CAP

03/28/95

10:30 AM to 11:20 AM

FDEP

Type of meeting:

Discussion of Contamination Assessment Plan

Attendees:

Allison Amrams/FDEP, Susan Metcalfe/Citrus Co., John Wood/CH2M HILL, Marty Clasen/CH2M HILL, Steve Tsangaris/CH2M HILL

Agenda topics

10:30-10:40 AM

Meeting Overview

John Wood

10:40-10:55 AM

Site History

Marty Clasen

10:55-11:10 AM

CAP Tasks

Steve Tsangaris

11:10-11:20 AM

Summary

John Wood

Meeting Overview

- Compliance monitoring detections initiated assessment monitoring
- Resample detections initiated CAP
- Tasks of CAP

Site History

- Closed 60 acre landfill is capped
- Unique hydrogeology of ridge
- Monitoring program - figure 1
- Well A - VOC detects, leaky casing, abandoned
- Replacement well AA - VOC detects
- Well E installed downgradient, January 4, 1995 sampling - bdl

CAP Tasks

- Literature search, site background
- Groundwater sampling, water levels
- Hydraulic conductivity testing
- Groundwater flow direction and rate
- Well inventory 1-mile radius

2 nearest potable well is ~2 miles

Summary

- CAP due April 22, 1995 - *on target to submit this date*
- New round of sampling
- Trace amounts, low risk
- Propose monitor only

*CAP agenda
looks
appropriate*

confirm

*will include older hits
of vinyl chloride*

*will continue to monitor
quarterly AA, C, D, E, B & R1
for 1 year*

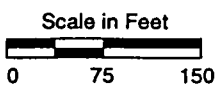
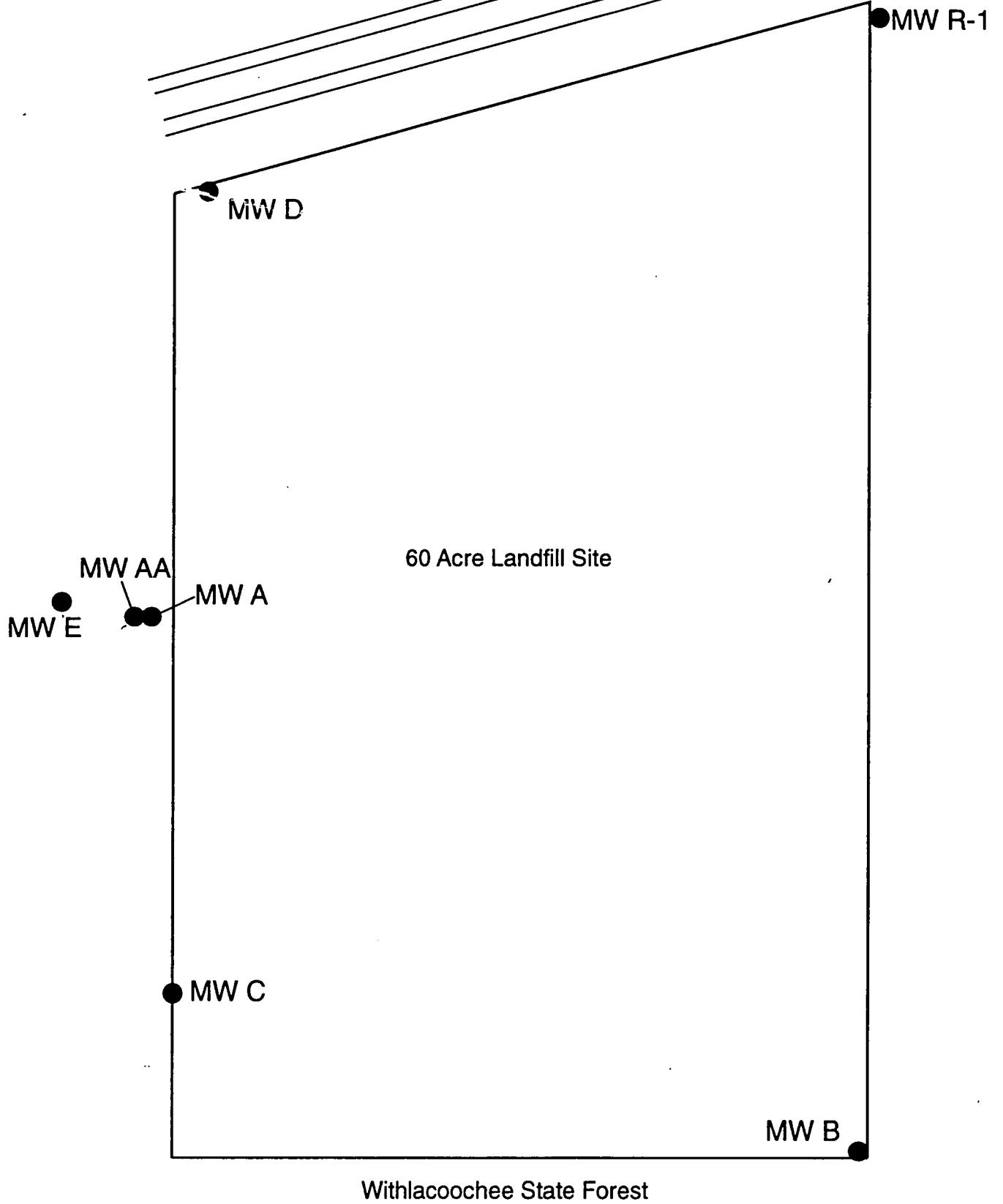


FIGURE 1
Monitoring Well Locations



Order #: 95-01-138-01A
Client: Citrus County

C

Post-it® Fax Note 7671		Date 3-27	# of pages 4
To <i>Belton A.</i>		From <i>Saxon/Cathy</i>	
Co./Dept <i>DER</i>		Co. <i>Citrus Co.</i>	
Phone #		Phone #	
Fax # <i>813/744-6125</i>		Fax #	

Page: 2

GMS # : 4009C00086

Monitoring Well #: NA

Well Name: MW-E

Classification of Groundwater: GW-II

Well Developed Prior to

Sample Collection (Yes/No) YES

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

Sample Date: 01/11/95

Well type

☐ Background

☐ Site Boundary

☐ Intermediate

☐ Compliance

☒ Other

Ground Water Elevation: (above MSL) NA

STORET Code	Parameter	Sampling Method	Analysis Method	Analysis Results	Units	UNF/FIL	Preservative Used
00400	Field pH	Grab	EPA_150_1	6.57	Units	UNF	NA
00010	Temperature	Grab	EPA_170_1	22.5	°C	UNF	NA
00094	Conductivity	Grab	EPA_120_1	335	umhos/cm	UNF	NA
72020	Water Level	Grab	Tape Measu	103.35	Feet	UNF	NA
00299	Dissolved Oxygen	Grab	EPA_360_1	3.9	mg/l	UNF	NA
01007	Barium	Grab	EPA_6010	130	ug/l	UNF	HN03
01027	Cadmium	Grab	EPA_6010	<5.0	ug/l	UNF	HN03
01034	Chromium	Grab	EPA_6010	13	ug/l	UNF	HN03
01067	Nickel	Grab	EPA_6010	30	ug/l	UNF	HN03
00929	Sodium	Grab	EPA_6010	5.2	mg/l	UNF	HN03
01012	Beryllium	Grab	EPA_6010	<4.0	ug/l	UNF	HN03
01051	Lead	Grab	EPA_6010	<10	ug/l	UNF	HN03
01097	Antimony	Grab	EPA_6010	<8.0	ug/l	UNF	HN03
01059	Thallium	Grab	EPA_7841	<2.0	ug/l	UNF	HN03
01002	Arsenic	Grab	EPA_6010	18	ug/l	UNF	HN03
01147	Selenium	Grab	EPA_6010	<5.0	ug/l	UNF	HN03
71900	Mercury	Grab	EPA_7470	0.32	ug/l	UNF	HN03
01105	Aluminum	Grab	EPA_6010	3200	ug/l	UNF	HN03
01042	Copper	Grab	EPA_6010	<10	ug/l	UNF	HN03
01045	Iron	Grab	EPA_6010	20000	ug/l	UNF	HN03
01055	Manganese	Grab	EPA_6010	1500	ug/l	UNF	HN03
01077	Silver	Grab	EPA_6010	<10	ug/l	UNF	HN03
01092	Zinc	Grab	EPA_6010	<50	ug/l	UNF	HN03
01501	Gross Alpha	Grab	EPA_900_0	16.7	pCi/l	UNF	HN03
01502	Counting Error	Grab	EPA_900_0	+/- 4.1	pCi/l	UNF	HN03
82080	Total THMs	Grab	EPA 501.1	<0.001	mg/l	UNF	Na2S2O3
34551	1,2,4-Trichlorobenzene	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
81688	cis-1,2-Dichloroethylene	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
81551	Xylenes (total)	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
34429	Dichloromethane	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
34536	o-Dichlorobenzene	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
34571	para-Dichlorobenzene	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
39175	Vinyl Chloride	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-1.216(2) Effective January 1, 1993

Note: It was re-sampled on 3-21 for Total Chlorine, Benzene & Vinyl chloride - Reports should be received by 4-5.

Order #: 95-01-138-01A
Client: Citrus County

Orlando Laboratories, Inc.
Report of Analysis for DER

Page: 3

Citrus County Landfill

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS #: 4009C00086
Monitoring Well #: NA
Well Name: MW-E

Sample Date: 01/11/95

STORET Code	Parameter	Sampling Method	Analysis Method	Analysis Results	Units	UNF/FIL	Preservative Used
34501	1,1-Dichloroethylene	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
34546	1,2-Dichloroethylene	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
34531	1,2-Dichloroethane	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
34508	1,1,1-Trichloroethane	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
32102	Carbon Tetrachloride	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
34541	1,2-Dichloropropane	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
39180	Trichloroethylene	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
34511	1,1,2-Trichloroethane	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
34475	Tetrachloroethylene	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
34301	Monochlorobenzene	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
78124	Benzene	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
78131	Toluene	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
34371	Ethylbenzene	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
77128	Styrene	Grab	EPA 524.2	<0.5	ug/l	UNF	HCl
38760	Dibromochloropropane	Grab	EPA 504	<0.02	ug/l	UNF	Na2S2O3
77651	Ethylene Dibromide	Grab	EPA 504	<0.01	ug/l	UNF	Na2S2O3
39055	Simazine	Grab	EPA 507MOD	<4.0	ug/l	UNF	NA
39033	Atrazine	Grab	EPA 507MOD	<3.0	ug/l	UNF	NA
77825	Alachlor	Grab	EPA 507MOD	<0.2	ug/l	UNF	NA
39390	Endrin	Grab	EPA 508	<0.1	ug/l	UNF	NA
39340	Lindane	Grab	EPA 508	<0.05	ug/l	UNF	NA
39480	Methoxychlor	Grab	EPA 508	<0.1	ug/l	UNF	NA
39400	Toxaphene	Grab	EPA 508	<1.0	ug/l	UNF	NA
39410	Heptachlor	Grab	EPA 508	<0.05	ug/l	UNF	NA
39420	Heptachlor Epoxide	Grab	EPA 508	<0.05	ug/l	UNF	NA
39516	PCB (Total)	Grab	EPA 508	<0.5	ug/l	UNF	NA
39350	Chlordane	Grab	EPA 508	<0.5	ug/l	UNF	NA
38432	Dalapon	Grab	EPA 515.1	<1.0	ug/l	UNF	NA
39720	Picloram	Grab	EPA 515.1	<1.0	ug/l	UNF	NA
30191	Dinoseb	Grab	EPA 515.1	<2.0	ug/l	UNF	NA
39730	2,4-D	Grab	EPA 515.1	<2.0	ug/l	UNF	NA
39760	2,4,5-TP (Silvex)	Grab	EPA 515.1	<1.0	ug/l	UNF	NA
39032	Pentachlorophenol	Grab	EPA 515.1	<0.5	ug/l	UNF	NA

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-1.216(2) Effective January 1, 1983

Order #: 95-01-138-01A
Client: Citrus County

Orlando Laboratories, Inc.
Report of Analysis for DER

Page: 4

Citrus County Landfill

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS #: 4009C00086

Sample Date: 01/11/95

Monitoring Well #: NA

Well Name: MW-E

STORET Code	Parameter	Sampling Method	Analysis Method	Analysis Results	Units	UNF/FIL	Preservative Used
77903	Di(2-ethylhexyl)adipate	Grab	EPA_525_1	<2.0	ug/l	UNF	NA
39100	Di(2-ethylhexyl)phthalate	Grab	EPA_525_1	<2.0	ug/l	UNF	NA
34388	Hexachlorocyclopentadiene	Grab	EPA_525_1	<1.0	ug/l	UNF	NA
39700	Hexachlorobenzene	Grab	EPA_525_1	<0.4	ug/l	UNF	NA
34247	Benzo(a)pyrene	Grab	EPA_525_1	<0.4	ug/l	UNF	NA
39865	Oxamyl (Vydate)	Grab	EPA_531.1	<2.0	ug/l	UNF	MCAA
82615	Carbofuran	Grab	EPA_531.1	<1.5	ug/l	UNF	MCAA
79743	Glyphosate	Grab	EPA_547	<8.0	ug/l	UNF	NA
38926	Endothall	Grab	EPA_548	<9.0	ug/l	UNF	NA
78885	Diquat	Grab	EPA_549	<0.4	ug/l	UNF	H2SO4
34675	2,3,7,8-TCDD (Dioxin):pg/	Grab	EPA_1613	<3.4	pg/l	UNF	NA
00615	Nitrite (as N)	Grab	EPA_353.2	0.04	mg/l	UNF	H2SO4
00620	Nitrate (as N)	Grab	EPA_353.2	0.07	mg/l	UNF	H2SO4
00720	Cyanide	Grab	EPA_335.3	<0.004	mg/l	UNF	NaOH
00951	Fluoride	Grab	EPA_340.2	0.19	mg/l	UNF	NA
81855	Asbestos (MFL)	Grab	600/4-83-04	<6.41	MFL	UNF	NA
00086	Odor (TON)	Grab	EPA_SM2150	4	mg/l	UNF	NA
00081	Color (PCU)	Grab	EPA_110.2	500	mg/l	UNF	NA
00403	Lab pH (Units)	Grab	EPA_150.1	6.57	mg/l	UNF	NA
38260	Foaming agents	Grab	EPA_425.1	<0.10	mg/l	UNF	NA
70300	TDS	Grab	EPA_160.1	460	mg/l	UNF	NA
00940	Chloride	Grab	EPA_300.0	4.7	mg/l	UNF	NA
00951	Fluoride	Grab	EPA_340.2	0.19	mg/l	UNF	NA
00945	Sulfate	Grab	EPA_375.4	7.8	mg/l	UNF	NA
31501	Total Coliform	Grab	EPA_SM9222B	124	cfu/100ml	UNF	Na2S2O3

T. Coli: Setup Date/Time: 01/11/95 12:00:00

Read Date/Time: 01/12/95 12:00:00

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-1.216(2) Effective January 1, 1983

Re: EPA 525:

Elevated detection limits caused by dilution of sample during extraction process because of high solids. Dilution was necessary

Order #: 95-01-138-01B
Client: Citrus CountyOrlando Laboratories, Inc.
Report of Analysis for DER

Page: 5

Citrus County Landfill

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # : 4009C00086

Monitoring Well #: NA

Well Name: MW-E

Sample Date: 01/11/95

Well type
☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other

Classification of Groundwater: GW-II

Well Developed Prior to

Sample Collection (Yes/No) YES

Ground Water Elevation: (above MSL) NA

STORET Code	Parameter	Sampling Method	Analysis Method	Analysis Results	Units	UNF/FIL	Preservative Used
00400	Field pH	Grab	EPA_150_1	6.57	Units	UNF	NA
00010	Temperature	Grab	EPA_170_1	22.5	°C	UNF	NA
00094	Conductivity	Grab	EPA_120_1	335	umhos/cm	UNF	NA
72020	Water Level	Grab	Tape_Measu	103.35	Feet	UNF	NA
00299	Dissolved Oxygen	Grab	EPA_360_1	3.9	mg/l	UNF	NA
34578	2-Chloroethylvinylether	Grab	EPA_601	<1.0	ug/l	UNF	HCl
00440	Bicarbonate	Grab	EPA_SM2320B	870	mgHCO3/l	UNF	NA
83341	Nitrogen, Ammonium	Grab	CALCULATION	0.01	mg/l	UNF	H2SO4
34418	Chloromethane	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
34668	Dichlorodifluoromethane	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
34416	Bromomethane	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
34311	Chloroethane	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
34488	Trichlorofluoromethane	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
22417	Methyl-tert-butyl-ether	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
30217	Dibromomethane	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
77168	1,1-Dichloropropylene	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
77173	1,3-Dichloropropane	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
34561	1,3-Dichloropropane	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
77443	1,2,3-Trichloropropane	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
77170	2,2-Dichloropropane	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
32106	Chloroform	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
32104	Bromoform	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
32101	Bromodichloromethane	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
32105	Dibromochloromethane	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
38680	o-Chlorotoluene	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
77970	p-Chlorotoluene	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
34566	m-Dichlorobenzene	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
34498	1,1-Dichloroethane	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
77562	1,1,1,2-Tetrachloroethane	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
34516	1,1,2,2-Tetrachloroethane	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
81555	Bromobenzene	Grab	EPA_524.2	<0.5	ug/l	UNF	HCl
00680	Total Organic Carbon	Grab	EPA_SM5310C	8.0	mg/l	UNF	H2SO4
82078	Field Turbidity	Grab	EPA_180_1	91.3	NTU	UNF	NA

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-1.216(2) Effective January 1, 1983

03-27-95 03:12PM

FROM CH2M HILL

Best Available Copy

TO 7446084

POC1/002

CH2M HILL

**FAX TRANSMITTAL FORM
FOR IMMEDIATE DELIVERY**

DATE: 3-27-95

PROJECT NUMBER: _____

FAX OPERATOR: _____

TIME SENT: _____ ☐ AM ☐ PM

To: Allison Ammons

Firm Name

FDEP

Office

City

State

Country if outside the USA

Fax Phone Number: _____

Verification Phone Number: _____

Total number of pages, including this page: 2

Return original? ☐ Yes ☐ No

IF YOU DO NOT RECEIVE ALL OF THE PAGES OR THE TRANSMISSION IS UNCLEAR,
PLEASE CONTACT YOUR FAX OPERATOR

FROM:

Marty Clasen

Office TPA

Employee No. _____

RE:

Meeting Agenda

REMARKS: _____

Date Fax received: _____

Time: _____

☐ AM ☐ PM

CH2M HILL
Tampa Office

2701 North Rocky Point Drive, Suite 800
Tampa, FL 33607-5923
P.O. Box 21647, Tampa, FL 33622-1647

Hillsborough Co. 813.281.0
Pinellas Co. 813.536.9
Fax 813.286.9
4/91 FORM

Agenda

Citrus Co. Landfill - CAP

03/28/95
10:30 AM to 11:20 AM
FDEP

Type of meeting:

Discussion of Contamination Assessment Plan

Attendees:

Allison Amrams/FDEP, Susan Metcalfe/Citrus Co., John Wood/CH2M HILL, Marty Clasen/CH2M HILL, Steve Tsangaris/CH2M HILL

Agenda topics

10:30-10:40 AM

Meeting Overview

John Wood

10:40-10:55 AM

Site History

Marty Clasen

10:55-11:10 AM

CAP Tasks

Steve Tsangaris

11:10-11:20 AM

Summary

John Wood

NOTICE OF MEETING

Today's date: 3/13/94 Writer: Amram

Date of meeting: 3/28/95

Time: 10:30

Place: Admin Conf Rm

Subject: Citrus Co Groundwater Contamination
Assessment Plan

Explanation: _____

Requested by: Marty - CH₂M Hill Ph.# 281-0777

Names of attendees
other than DER: Citrus Co - Susie Metcalfe

Local Program
notified: ☐ yes ☐ no Attending? _____

Copies to anticipated
in-house attendees: _____

Information
copies to:
Bob Butera
Kim Ford

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 3-14-95

Subject GW CAP

Time 2:30

Permit No. _____

County Citrus

M ~~Susie~~ Marty

Telephone No. 281-0777

Representing CH₂M Hill

☒ Phone Me ☐ Was Called ☐ Scheduled Meeting ☐ Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

CAP for compliance well - wants to
set up a meeting

Susie

CH₂M Hill

me

March 28th

10:30 am

Admin Conf Room

(continue on another
sheet, if necessary)

Signature Alison Amaran

Title PGI



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

March 6, 1995

Ms. Susan Metcalfe, P.G.
Citrus County
Solid Waste Management
Post Office Box 340
Lecanto, FL 34460-0340

Re: Gas Monitoring Wells
Permit No.: SF09-211030, Citrus County
Certification of Construction Completion

Dear Ms. Metcalfe:

On March 3, 1995, an inspection of the above referenced facility relative to construction completion and adherence to the permit issued by the Florida Department of Environmental Protection (FDEP) was made by Susan Metcalfe and David Chamblin (Citrus County), and Kim Ford and Brad Bailey (FDEP).

Certification of Construction Completion dated December 20, 1994 was received by the Department on December 27, 1994. Based on the information submitted, and the site investigation, FDEP approves the gas monitoring wells.

If you have any questions, please contact me at (813) 744-6100, extension 382.

Sincerely,

Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

KBF/ab

cc: Gary Kuhl, P.E., Citrus County
Robert Butera, P.E., FDEP Tampa
Steve Morgan, FDEP Tampa



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

March 6, 1995

Ms. Susan Metcalfe, P.G.
Citrus County
Solid Waste Management
Post Office Box 340
Lecanto, FL 34460-0340

Re: Regrading Closed 7-Acre Disposal Unit
Permit No.: SF09-211030, Citrus County
Certification of Construction Completion

Dear Ms. Metcalfe:

On March 3, 1995, an inspection of the above referenced facility relative to construction completion and adherence to the permit issued by the Florida Department of Environmental Protection (FDEP) was made by Susan Metcalfe and David Chamblin (Citrus County), and Kim Ford and Brad Bailey (FDEP).

Certification of Construction Completion dated August 12, 1994 was received by the Department on August 17, 1994. Based on the information submitted, and the site investigation, FDEP approves the regrading of the closed 7-acre disposal unit.

If you have any questions, please contact me at (813) 744-6100, extension 382.

Sincerely,

Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

KBF/ab

cc: Gary Kuhl, P.E., Citrus County
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