

October 19, 1992

Susan M. Coughanour
Senior Review Coordinator
South Florida Water Management District
3301 Gun Club Road
West Palm Beach, FL 33416-4680

Re: Lee County Solid Waste Energy Recovery Facility
Power Plant Site Certification - DER Case No. PA 90-30
Fort Myers, FL

Subject: RESPONSE TO FIRST SUFFICIENCY QUESTIONS

Dear Ms. Coughanour,

On behalf of Lee County, Florida (the "County"), Malcolm Pirnie is submitting additional information in response to the South Florida Water Management District's First Sufficiency Questions/Comments letter dated 30 September 1992. This response is also being forwarded to each of the parties identified on the attached distribution list.

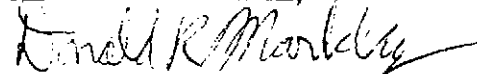
As we have discussed, the Lee County Division of Solid Waste is seeking the Board of County Commissioners (the "Commission") approval to authorize Ogden Martin Systems of Lee Inc. (the "Company") to commence construction of the Lee County Solid Waste Resource Recovery Facility (the "Facility"). This request for approval is currently scheduled as an Administrative Agenda item for the Commission's Wednesday 21 October 1992 public meeting. It is anticipated that Commission approval will be granted on this date and that formal Notice to Proceed will be issued by the County Administrator or his designated representative on or before 31 October 1992. The Company anticipates clearing and grubbing operations to commence immediately following issuance of Notice to Proceed.

The County is grateful for the thoroughness of South Florida Water Management District's previous review and appreciates the expeditious and professional manner in which County submissions have been handled. We must again, however, respectfully request that the South Florida Water Management District expedite its review of this submittal in order that the County can maintain the current project schedule.

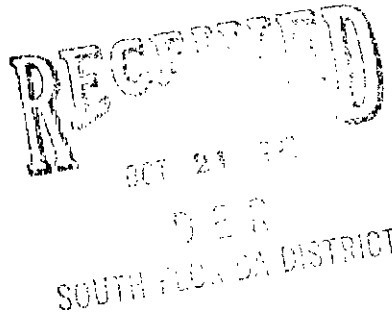
If we may be of any assistance during your review, or need to provide additional information, please do not hesitate to contact us.

Very truly yours,

MALCOLM PIRNIE, INC.



Donald R. Markley
Assistant Project Manager



**DISTRIBUTION LIST
RESPONSE TO FIRST SUFFICIENCY QUESTIONS**

Chip Merriam, SFWMD - Ft. Myers
Jim Winter, Lee County Parks and Recreation
Lindsey Sampson, Lee County Solid Waste
Larry Johnson, Lee County Solid Waste
Jim Yaegar, Lee County Attorney
David Owen, Lee County Assistant Attorney
Walter Stephens, Lee County Div. of Water Resources
David Dee, Esquire, Carlton, Fields, Ward, et al.
Hamilton S. Owen, Jr., DER-Tallahassee
~~Philip Barbaccia, DER-Fort Myers~~
Wayne Daltry, Southwest Florida R.P.C.
Ken Plante, General Counsel, DNR
James V. Antista, Esquire, Game & Fish Comm.
Steve Pfeifer, General Counsel, DCA
Dan Craig, Ink Engineering
Craig Smith, Kevin Erwin Inc.
L. P. Young, OMSL
Jeff Kowal, OMSL
R. Lane Ware, UE&C
David S. Cerrato, Malcolm Pirnie

**MALCOLM
PIRNIE**

**RESPONSES TO
SFWMD REQUESTS FOR ADDITIONAL INFORMATION
FOR
LEE COUNTY SOLID WASTE ENERGY RECOVERY FACILITY
POWER PLANT SITING ACT APPLICATION PA 90-30
OCTOBER 1992**

1. Pursuant to Certification Condition XV.D.2.b.(6), please provide a timetable for accomplishing the proposed mitigation activities prior to or concurrent with the construction of the proposed power plant facilities and any associated wetland impacts.

Response: A wetland construction schedule prepared by Kevin L. Erwin Consulting Ecologist, Inc. (based on a November 1, 1992 notice to proceed) is attached.

2. Pursuant to Certification Condition XV.D.2.b.(7), please submit documentation that the mitigation and preserved wetland areas (including buffer zones) have been legally reserved and will be managed consistent with their proposed use as conservation areas. Please note that a draft conservation easement or similar legal instrument must be reviewed and approved in order for the SFWMD to authorize commencement of construction.

Response: Documentation for the legally reserved mitigation and preserved wetland areas (including buffer zones) is attached (Draft copy reviewed by SFWMD). These documents will be recorded after board authorization and signature.

3. The documentation submitted by United Engineers and Constructors on September 28, 1992 in response to the District's request for additional information on the proposed surface water pumps is complete except for the diameter of the proposed pumps. Please provide. "Item (3) is related to OMSL's August 25, 1992 submittal of the referenced Facility's storm water management and dewatering plans. The documentation submitted by United Engineers and constructors on September 28, 1992 in response to the District's request for additional information on the proposed surface water pumps is complete except for the diameter of the proposed pumps. Please provide." (Ogden Martin Systems, 9-30-92)

Response: Refer to Ogden Martin Systems of Lee Inc. letter dated October 14, 1992. (attached)

4. In a meeting with the applicant's consultants on September 16, 1992, the possibility of drilling fewer than the six previously authorized production wells was discussed. The proposed wells would have larger capacities than was authorized in the Certification Order and would be installed in different locations. In order to consider this option, it must be demonstrated that no adverse impacts are associated with this configuration. Pursuant to Certification Condition XV.B.3.d, please submit an evaluation of the impacts of the proposed pumpage from the proposed well locations on adjacent existing legal users, pollution sources, environmental features, the saline water interface, and water bodies for review and approval by SFWMD.

Response: Refer to Ogden Martin Systems of Lee Inc. letter dated October 14, 1992. (attached)

5. SFWMD staff has reviewed the letter from Mr. Walter Stephens, Director, Lee County Water Resources Division, regarding the routing of the project's surface water discharges to Six Mile Cypress via the S.R. 82 roadside swale/ditch. Please provide confirmation from the County Attorney's Office that this proposal is consistent with the Six Mile Cypress Drainage Basin Ordinance and that no further authorization by the County is necessary.

Response: Documentation provided by the County Attorney's office stating that routing of the projects surface water discharges to the Six Mile Cypress Slough via the Buckingham/SR82 roadside swale/ditch is in accordance with the conditions and requirements of the Lee County Six-Mile Cypress Watershed Ordinance is attached.

6. Please Provide confirmation from DOT that the proposed improvements are acceptable to them. What measures will be taken to ensure that additional connections to the Buckingham Rd./S.R. 82A and S.R. 82 roadside swales/ditches will not adversely impact the capacity of these ditches to convey runoff from the LCERF project site.

Response: Refer to attached letters from Ink Engineering and Lee County Water Resources Division/Lee County D.O.T. confirming their concurrence with the proposed improvements.

7. Please provide a drawing which shows the proposed final improved cross section of the Buckingham Rd./S.R. 82A and S.R. 82 roadside swale/ditches.

Response: See attached sketch/drawing prepared by Ink Engineering showing the final improved cross section of the roadside swale/ditch.

8. Please indicate when the FPL temporary access road, which is currently blocking the Buckingham Rd./S.R. 82A roadside swale/ditch, will be removed or culverted to ensure conveyance of runoff from the LCERF project site.

Response: Refer to attached letter prepared by Ink Engineering discussing the schedule for the required improvements.

WETLAND CONSTRUCTION SCHEDULE*

1. Baseline monitoring shall be completed prior to January 1, 1993. The report will be submitted within 60 days of data collection.
2. The initial removal/treatment of exotic vegetation shall be initiated prior to February 1, 1993. The initial treatment will be completed within 60 days.
3. Construction of the 3.8 acre wetland creation area will be completed prior to March 15, 1993.
4. Planting of the 3.8 acre wetland creation area will be completed prior to May 1, 1993.
5. Time zero monitoring will be initiated within 30 days of completion of the initial exotic removal and completion of the created wetland planting (i.e., later than June 1, 1993). The report will be submitted within 60 days of data collection.
6. Semi-annual monitoring will occur each September - November and April - May following the time zero monitoring. The annual report will be submitted within 60 days of fall data collection.

* This schedule is based on an anticipated notice-to-proceed date of November 1, 1992. Should this notice be delayed, all wetland mitigation activity will be similarly delayed.

This Instrument Prepared by:

Lee County

P. O. Box 398
Fort Myers, Florida 33902-0398

Parcel: _____
Project: _____
STRAP No.: _____

This Space for Recording

GRANT OF PERPETUAL

CONSERVATION EASEMENT & AGREEMENT

THIS PERPETUAL CONSERVATION EASEMENT is entered into this ____ day of _____, 1992 by and between LEE COUNTY, a political subdivision of the State of Florida ("GRANTOR"), and the SOUTH FLORIDA WATER MANAGEMENT DISTRICT, a political corporation of the State of Florida, created under Chapter 373, Florida Statutes, and whose principal address is 3301 Gun Club Road, West Palm Beach, Florida 33406, ("GRANTEE").

Pursuant to the provisions of Section 704.06, Florida Statutes, and in consideration for the issuance of a State of Florida Power Plant Site Certification issued to Lee County on June 16, 1992, and the conditions therein, specifically Condition XV.D.2.b.(7) and c.(6), GRANTOR hereby grants to GRANTEE, a Perpetual Conservation Easement over the real property as described in Exhibit "A" of this Easement and Agreement (the "Property"), for itself, its successors and assigns.

7. There shall be no uses detrimental to the preservation of any wetlands within the Property.

GRANTOR agrees that it will not sell the Property which is subject to this Easement without giving GRANTEE at least sixty (60) days written notice prior to transfer of title.

GRANTOR reserves to itself, its heirs, successors or assigns all rights as fee owner of the Property including the right to engage in all uses of the Property that are not expressly prohibited herein and are not inconsistent with the purpose of this Easement as set forth in Section 704.06, Florida Statutes.

GRANTEE agrees that it will hold this Easement exclusively for conservation purposes and that it will not assign its rights and obligations under this Easement except to another organization qualified to hold such interests under applicable state and federal laws and committed to holding this Easement exclusively for conservation purposes.

GRANTOR agrees to bear all reasonable costs related to the operation, upkeep and maintenance of the Property.

If any provision of this Easement or the application thereof to any person or circumstance is found to be invalid, the remainder of the provisions of this Easement, and the applications of such provision to persons or circumstances other than those as to which it is found to be invalid, shall not be affected thereby.

All notices, consents, approvals or other communications hereunder shall be in writing and shall be deemed properly given if sent by United States certified mail, return receipt requested, addressed to

the appropriate party or successor-in-interest, at the addresses above set forth or such new addresses as either party may in writing deliver to the other.

It is agreed between GRANTOR and GRANTEE that GRANTEE'S approval of the management plan and amendments thereto, and written requests of GRANTOR, will be based upon consideration of water resource management and conservation policies as expressed in Chapter 373, Florida Statutes.

This Easement and Agreement may be modified only by mutual written agreement between GRANTOR and GRANTEE or their successors, at and for the convenience of the parties.

AS TO GRANTOR

ATTEST: CHARLIE GREEN
CLERK OF THE COURT

BOARD OF COUNTY COMMISSIONERS
OF LEE COUNTY, FLORIDA

By: _____
Deputy Clerk

By: _____
Chairman

AS TO GRANTEE

ATTEST:

GOVERNING BOARD FOR THE
SOUTH FLORIDA WATER MANAGEMENT
DISTRICT

By: _____

Title: _____

APPROVED AS TO FORM:

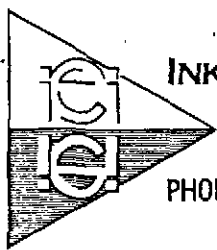
Office of Lee County Attorney

By: _____
Assistant County Attorney

APPROVED AS TO FORM:

Office of General Counsel,
South Florida Water Management
District

By: _____
Assistant General Counsel



INK ENGINEERING INC.

ENGINEERS • SURVEYORS • PLANNERS

PHONE (813) 995-8500 • 6320 BEAU DRIVE • NORTH FORT MYERS, FLORIDA 33903

EXHIBIT A-1

JOB NUMBER 9133

9/30/92

LEE COUNTY ENERGY RECOVERY SITE
CONSERVATION EASEMENT # 1

DESCRIPTION

A TRACT OR PARCEL OF LAND LYING IN THE SOUTHEAST ONE-QUARTER OF SECTION 24, TOWNSHIP 44 SOUTH, RANGE 25 EAST, LEE COUNTY, FLORIDA; MORE PARTICULARLY DESCRIBED AS FOLLOWS:

FROM THE POINT OF COMMENCEMENT AT THE SOUTHWEST CORNER OF THE SOUTHEAST ONE-QUARTER OF SAID SECTION 24; THENCE N.88°44'55"E. FOR 250.01 FEET ALONG THE SOUTH LINE OF SAID SOUTHEAST ONE-QUARTER TO AN INTERSECTION WITH THE EASTERLY LINE OF A FLORIDA POWER AND LIGHT COMPANY RIGHT-OF-WAY AS RECORDED IN OFFICIAL RECORD BOOK 814, AT PAGE 673 OF THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA; THENCE N.00°45'41"W. FOR 803.69 FEET ALONG SAID EASTERLY LINE TO THE POINT OF BEGINNING.

FROM SAID POINT OF BEGINNING; THENCE CONTINUE N.00°45'41"W. FOR 573.85 FEET; THENCE N.65°11'55"E. FOR 408.42 FEET; THENCE N.55°28'14"E. FOR 170.76 FEET; THENCE N.65°34'06"E. FOR 302.55 FEET; THENCE N.74°57'35"E. FOR 294.17 FEET; THENCE N.70°53'57"E. FOR 149.54 FEET; THENCE S.73°15'50"E. FOR 87.58 FEET; THENCE S.00°00'00"E. FOR 142.08 FEET; THENCE S.31°57'24"E. FOR 58.29 FEET; THENCE S.58°14'35"E. FOR 165.73 FEET; THENCE S.17°43'13"W. FOR 214.51 FEET; THENCE S.89°02'10"W. FOR 185.17 FEET; THENCE S.51°30'52"W. FOR 272.87 FEET; THENCE S.76°58'18"W. FOR 258.63 FEET; THENCE S.00°00'00"E. FOR 217.78 FEET; THENCE S.22°30'00"W. FOR 103.32 FEET; THENCE S.67°30'00"W. FOR 103.32 FEET; THENCE S.90°00'00"W. FOR 609.31' TO THE POINT OF BEGINNING.

CONTAINING 21.005 ACRES MORE OR LESS.

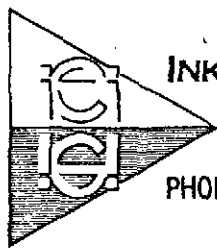
THE BEARINGS MENTIONED HEREIN ARE BASED UPON THE PLAT OF BUCKINGHAM PARK ENTRANCE ROADS AS RECORDED IN PLAT BOOK 9, PAGE 98, LEE COUNTY PUBLIC RECORDS, LEE COUNTY, FLORIDA. THE CENTERLINE OF BUCKINGHAM ROAD BEING THE RECORD PLAT BEARING OF N.88°47'W.

SUBJECT TO EXISTING EASEMENTS, RESTRICTIONS, RESERVATIONS, AND RIGHTS OF WAY OF RECORD.

REFER TO 8 1/2" X 11" SKETCH

INK ENGINEERING, INC.


NICK POULOS, FOR THE FIRM
PROFESSIONAL LAND SURVEYOR
FLORIDA CERTIFICATE NO. 4568



INK ENGINEERING INC.

ENGINEERS • SURVEYORS • PLANNERS

PHONE (813) 995-8500 • 6320 BEAU DRIVE • NORTH FORT MYERS, FLORIDA 33903

EXHIBIT A-2

JOB NUMBER 9133

9/30/92

LEE COUNTY ENERGY RECOVERY SITE
CONSERVATION EASEMENT # 2

DESCRIPTION

A TRACT OR PARCEL OF LAND LYING IN THE SOUTHEAST ONE-QUARTER OF SECTION 24, TOWNSHIP 44 SOUTH, RANGE 25 EAST, AND THE NORTHEAST ONE-QUARTER OF SECTION 25, TOWNSHIP 44 SOUTH RANGE 25 EAST, LEE COUNTY, FLORIDA; MORE PARTICULARLY DESCRIBED AS FOLLOWS:

FROM THE POINT OF COMMENCEMENT AT THE SOUTHEAST CORNER OF SAID SECTION 24; THENCE S.01°09'24"E. FOR 51.14 FEET ALONG THE EAST LINE OF SAID NORTHEAST ONE-QUARTER OF SAID SECTION 25 TO AN INTERSECTION WITH THE NORTHERLY RIGHT-OF-WAY OF BUCKINGHAM ROAD (S.R. 82A); THENCE S.88°47'00"W. FOR 375.08 FEET ALONG SAID NORTHERLY RIGHT OF WAY (75.00 FEET FROM CENTERLINE) TO THE POINT OF BEGINNING.

FROM SAID POINT OF BEGINNING; THENCE CONTINUE S.88°47'00"W. FOR 419.46 FEET; THENCE N.30°19'02"W. FOR 345.30 FEET; THENCE N.12°24'38"W. FOR 146.77 FEET; THENCE N.02°57'49"E. FOR 85.59 FEET; THENCE N.12°54'36"E. FOR 107.12 FEET; THENCE N.49°41'39"E. FOR 368.56 FEET; THENCE N.85°56'01"E. FOR 109.82 FEET; THENCE S.16°20'01"E. FOR 91.96 FEET; THENCE S.00°08'17"W. FOR 156.74 FEET; THENCE S.55°13'15"E. FOR 131.20 FEET; THENCE S.36°12'25"E. FOR 110.70 FEET; THENCE S.30°06'56"E. FOR 150.88 FEET; THENCE S.12°58'37"E. FOR 68.47 FEET; THENCE S.00°59'01"W. FOR 128.23 FEET; THENCE S.27°36'35"W. FOR 113.30 FEET; THENCE S.40°33'04"W. FOR 44.24 FEET TO THE POINT OF BEGINNING.

CONTAINING 9.900 ACRES MORE OR LESS.

THE BEARINGS MENTIONED HEREIN ARE BASED UPON THE PLAT OF BUCKINGHAM PARK ENTRANCE ROADS AS RECORDED IN PLAT BOOK 9, PAGE 98, LEE COUNTY PUBLIC RECORDS, LEE COUNTY, FLORIDA. THE CENTERLINE OF BUCKINGHAM ROAD BEING THE RECORD PLAT BEARING OF N.88°47'W.

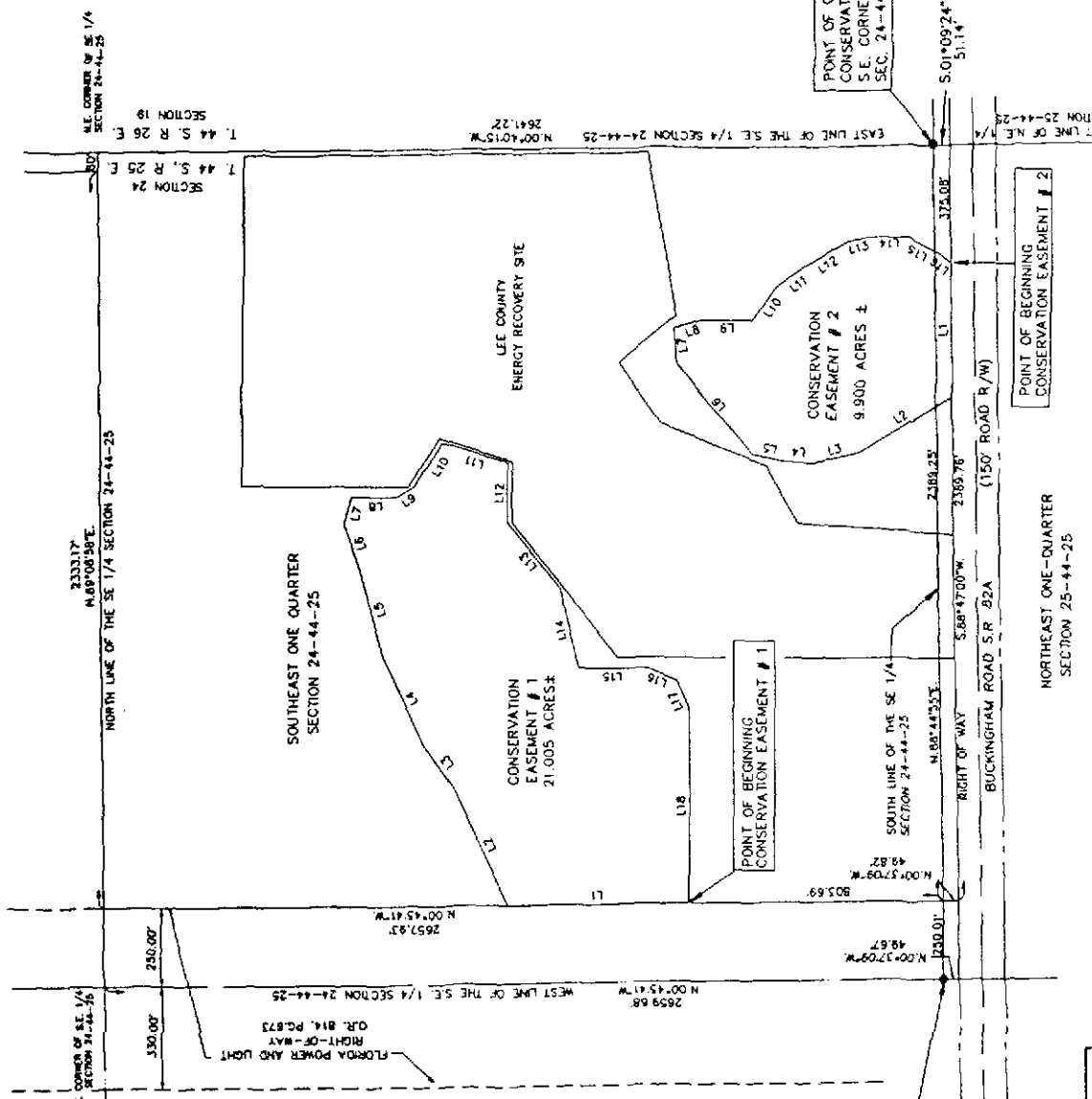
SUBJECT TO EXISTING EASEMENTS, RESTRICTIONS, RESERVATIONS, AND RIGHTS OF WAY OF RECORD.

REFER TO 8 1/2" X 11" SKETCH

INK ENGINEERING, INC.

Nick Poulos 10/2/92

NICK POULOS, FOR THE FIRM
PROFESSIONAL LAND SURVEYOR
FLORIDA CERTIFICATE NO. 4568



LEGEND:

SEC	SECTION
R	RANGE
P.O.B.	POINT OF BEGINNING
O.R.	OFFICIAL RECORD BOOK
PG.	PAGE
LB	LICENSED BUSINESS
PLAT	PLAT BOOK
(C)	CALCULATED
(P)	PLAT
COR	CORNER
R/W	RIGHT OF WAY
S.R.	STATE ROAD
SF/MAD	SOUTH FLORIDA WATER MANAGEMENT DISTRICT

L1 (TYPICAL) DENOTES LINE NUMBER IN LINE TABLE

CONSERVATION EASEMENT # 2 LINE TABLE

Line	Bearing	Distance
L1	S 88°47'00"W	419.46'
L2	N 30°19'02"W	345.30'
L3	N 10°41'38"W	146.77'
L4	N 12°51'30"E	83.59'
L5	N 33°24'32"E	168.52'
L6	N 49°41'39"E	109.82'
L7	N 85°56'01"E	91.96'
L8	S 16°20'01"E	156.74'
L9	S 00°08'17"W	131.20'
L10	S 55°13'15"E	110.70'
L11	S 36°12'25"E	150.88'
L12	S 30°06'58"E	8.47'
L13	S 12°58'37"E	128.23'
L14	S 00°59'01"W	113.30'
L15	S 27°36'35"W	44.24'
L16	S 40°33'04"W	44.24'

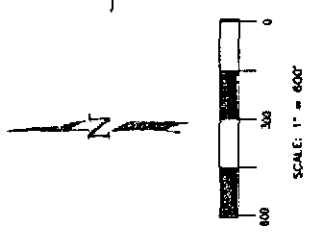
CONSERVATION EASEMENT # 1 LINE TABLE

Line	Bearing	Distance
L1	N 00°45'41"W	573.85'
L2	N 69°11'55"E	498.42'
L3	N 58°28'14"E	170.76'
L4	N 9°37'03"E	202.55'
L5	N 7°03'57"E	746.54'
L6	N 70°53'57"E	87.58'
L7	S 71°15'50"E	142.00'
L8	S 00°11'H	58.29'
L9	S 31°57'24"E	165.73'
L10	S 56°14'35"E	214.51'
L11	S 17°43'13"W	185.17'
L12	S 89°02'10"W	272.87'
L13	S 51°30'52"W	258.63'
L14	S 76°58'18"W	217.78'
L15	SOUTH	103.32'
L16	S 22°30'00"W	103.32'
L17	WEST	609.31'

POINT OF COMMENCEMENT CONSERVATION EASEMENT # 2 S.E. CORNER SEC. 24-44-25

POINT OF BEGINNING CONSERVATION EASEMENT # 1

POINT OF COMMENCEMENT CONSERVATION EASEMENT # 1 S.W. COR. SE. 1/4 SEC. 24-44-25



NOTE: SECTIONAL INFORMATION SHOWN HEREON IS AS SHOWN ON A BOUNDARY SURVEY OF PART SECTIONS 24 & 25, T. 44 S. R. 25 E. PERFORMED BY THE FIRM OF AGNOLI, BARBER BRUNDAGE, INC. AND DATED JUNE 22, 1990.

REFER TO ATTACHED DESCRIPTION SUBJECT TO EXISTING EASEMENTS, RESTRICTIONS, RESERVATIONS AND RIGHTS OF WAY OF RECORD

SURVYOR'S CERTIFICATE
 WE HEREBY CERTIFY THAT THE ATTACHED SKETCH IS AN ACCURATE REPRESENTATION OF THE LANDS DESCRIBED HEREON. WAS PREPARED IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS FOR LAND SURVEYING, CHAPTER 21-H-8 F.A.C. AND AS PREPARED UNDER THE SUPERVISION OF THE UNDERSIGNED REGISTERED LAND SURVEYOR. THIS IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.

DATE: 12/13/90
 [Signature]
 PROFESSIONAL LAND SURVEYOR

INK ENGINEERING, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 6320 BRAW DRIVE
 M. FT. WERTS, FLORIDA 32603

DATE: 9/30/79
 DRAWING NUMBER: 0113XCE-1 DWG
 JOB NO.:



SKETCH OF DESCRIPTION (NOT A FIELD SURVEY)
 CONSERVATION EASEMENT
 LEE COUNTY ENERGY RECOVERY SITE
 PART OF SECTIONS 24 & 25, T. 44 S., R. 25 E.

BEARING BASIS:
 BEARINGS SHOWN HEREON ARE BASED UPON THE PLAT OF BUCKINGHAM PARK ENTRANCE ROADS AS RECORDED IN PLAT BOOK B, PAGE 98, LEE COUNTY PUBLIC RECORDS, LEE COUNTY, FLORIDA. THE CENTRINE OF BUCKINGHAM ROAD

OGDEN MARTIN SYSTEMS OF LEE, INC.



40 LANE ROAD
CN 2615
FAIRFIELD, NJ 07007-2615
(201) 882-9000

Telecopied on 10/14/92

October 14, 1992

South Florida Water Management District
3301 Gun Club Road
West Palm Beach, Florida 33416-4680

Attention: Susan M. Coughanour
Senior Review Coordinator

Reference: Lee County Resource Recovery Facility
Ft. Myers, Florida
Project E-1033, Our Ref. LE0123L

Subject: RESPONSE TO FIRST SUFFICIENCY QUESTIONS

Dear Susan,

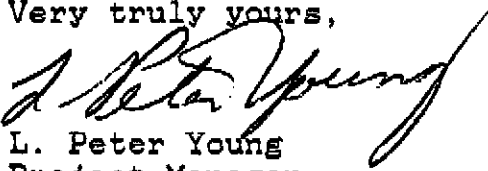
Ogden Martin Systems of Lee, Inc. (OMSL) has received and reviewed your sufficiency letter dated September 30, 1992. As you noted, item (3) is related to OMSL's August 25, 1992 submittal of the referenced Facility's storm water management and dewatering plans. Our response is provided on the attached sheet. The balance of questions/comments listed relate to project scope outside of OMSL's submittal and the Facility boundary and shall be addressed separately by Malcolm Pirnie.

Item (4) requesting an evaluation of the impacts of the proposed pumpage from the proposed production well locations will also be addressed under separate cover at a later date. OMSL is currently proceeding with Ardaman & Associates, located in Orlando and Ft. Myers, to provide a full drawdown impact analysis based on a two (2) well system with wells located within the Facility Site fencing. We will forward this information as soon as it becomes available. Since the production wells are not related to the Facility's storm water management system or dewatering plans we trust the District's approval of these submitted plans will not be delayed due to pending information on the production wells.

pja/2419

OMSL respectfully requests the District's prompt approval of OMSL's proposed Facility storm water management and dewatering plans based on this supplemental response. We again thank you for your and your staff's attention and cooperation regarding this important Lee County project.

Very truly yours,



L. Peter Young
Project Manager

cc: L. Sampson - Lee County
P. Barbaccia - FDER, Ft. Myers
D. Markley - Malcolm Pirnie
D. Cerrato - Malcolm Pirnie
J. Kowal - OMSL
J. Treshler - OMSL
L. Ware - UE&C
pf 5.1 SFWMD

pja/2419

LEE COUNTY SOLID WASTE RESOURCE RECOVERY FACILITY

South Florida Water Management District
Response to First Sufficiency Questions/Comments

Water Use

Item (3)

Questions/Comments: The Documentation submitted by United Engineers and Constructors on September 28, 1992 in response to the District's request for additional information on the proposed surface water pumps is complete except for the diameter of the proposed pumps. Please provide.

Response: The dewatering pump diameter is 8 inches.



BOARD OF COUNTY COMMISSIONERS

P.O. Box 398
Fort Myers, Florida 33902-0398
(813) 335-2111
(813) 335-2236

Water's Dirty Dial Number

John F. Manning
District One

Douglas R. St. Cerny
District Two

Ray Judah
District Three

Vicki Lopez-Wolfe
District Four

Donald Shsher
District Five

Julio Wael
County Administrator

James G. Yeager
County Attorney

Robert F. Sphit
County Hearing Examiner

October 12, 1992

Susan M. Coughanour
Senior Review Coordinator
Regulation Department
South Florida Water Management District
Post Office Box 24680
West Palm Beach, Florida 33416-4680

RE: LEE COUNTY SOLID WASTE RESOURCE RECOVERY FACILITY,
FIRST SUFFICIENCY REVIEW: SURFACE WATER MANAGEMENT

Dear Ms. Coughanour:

Pursuant to your letter of September 30, 1992, to Mr. Peter Young of Ogden-Martin Systems of Lee, Inc., and in particular reference to your Request Number 5., "Surface Water Management", I am of the following opinion:

This office has had the opportunity to review the memorandum of June 8, 1992 from Mr. Walter Stephens, Director of the Lee County Division of Water Resources, and the conditions, limitations and requirements of Lee County Ordinance No. 83-5, as amended, and as codified in the Lee County Code of Ordinances at Section 59.

As the result of this review, and from the legal perspective, it is the position of this office that the determinations and recommendations made by Mr. Walter Stephens in his memorandum, are consistent with the conditions and requirements of the Lee County Six-Mile Cypress Watershed Ordinance.

Also, and again from the legal perspective, it is the position of this office that no further authorization is required from the County at this time for the proposed stormwater outfall for the County's resource recovery facility.

Susan M. Coughanour
October 12, 1992
Page -2-

If you require any further input relative to this issue,
please so advise at your convenience.

The response and proposed documents relative to your
Question Number 2., "Wetlands", have been provided to you
under separate cover.

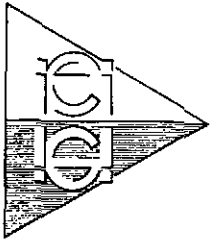
Cordially,

James G. Yaeger
County Attorney

JGY:dm

Enclosure

xc: Board of County Commissioners
Julio Arael, County Administrator



INK ENGINEERING INC.

ENGINEERS • SURVEYORS • PLANNERS

6320 BEAU DR. • N. FT. MYERS, FL 33903 • (813) 995-8500 • FAX (813) 997-3407

October 19, 1992
Job Number 9133.07

Mr. Don Markley
Malcolm Pirnie, Inc.
c/o Ink Engineering, Inc.
6320 Beau Drive
N. Ft. Myers, FL 33903

RE: Lee County Solid Waste Energy Recovery Facility

Dear Mr. Markley:

As per your request, we have reviewed the surface water Items 6-8 in the 9-30-92 SFWMD sufficiency review letter. Our response to these requests for additional information is as follows:

Item #6. Enclosed please find a letter from Lee County Water Resources indicating the proposed swale improvements are acceptable to them. Please note Water Resources responded to this issue for the DOT at the DOT's request.

In regard to any future connections impacting the roadside swale, this must be regulated by the SFWMD and the County. Only they have the authority to allow connections into the Buckingham Road swale. If a future connection is allowed, one would assume that these agencies would review for the potential impacts and have the perspective development compensate for them accordingly.

Item #7. Enclosed please find a typical section of the proposed improvements to the Buckingham Road swale. Please note we have also included calculations supporting the swale section.

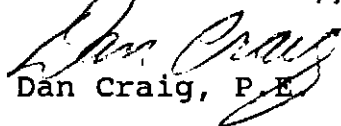
Item #8. The FPL temporary access road would be removed or culverted when the swale improvements are made. It is anticipated the swale improvements will be made prior to the dewatering operations at the site. Please note we are currently in the process of discussing this issue with FPL. We fully expect to reach an understanding in the near future with FPL on whether or not they want the accessway to remain.

October 19, 1992
Job Number 9133.07

Page 2

If you have any questions, please feel free to contact me.

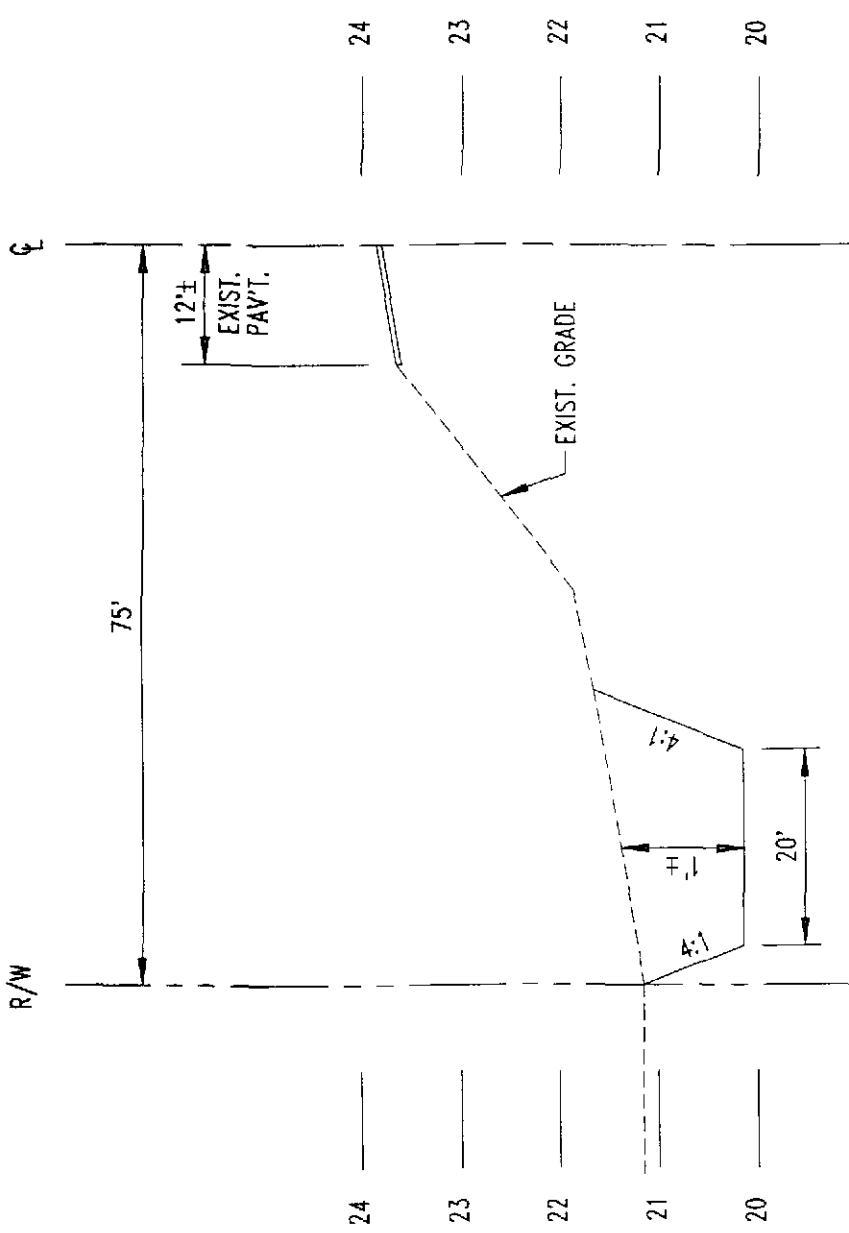
Sincerely,
INK ENGINEERING, INC.


Dan Craig, P.E.

DC:ls

Encls.

cc: Dave Cerrato, Malcolm Pirnie



TYPICAL SECTION

NOTE: TYPICAL SECTION APPLIES FROM SITE OUTFALL TO BOX CULVERT NEAR BUCKINGHAM ROAD & S.R. 82 ALONG THE NORTH SIDE OF BUCKINGHAM ROAD

SCALE
 HORIZONTAL 1" = 20'
 VERTICAL 1" = 2'

DATE	OCT. 82
SCALE	AS SHOWN
DESIGN	DC
CHECK	AT
PROJECT	111

INK ENGINEERING, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 111 (813) 985-8000 • 1229 BUCKINGHAM ROAD • W. PALM BEACH, FLORIDA 33411



Trapezoidal Channel Analysis & Design
Open Channel - Uniform flow

Worksheet Name: OUTFALL PATH

Comment: BUCKINGHAM SWALE IMPROVEMENTS

Solve For Depth

Given Input Data:

Bottom Width.....	20.00 ft
Left Side Slope..	4.00:1 (H:V)
Right Side Slope.	4.00:1 (H:V)
Manning's n.....	0.030
Channel Slope....	0.0003 ft/ft
Discharge.....	18.00 cfs

Computed Results:

Depth.....	0.99 ft
Velocity.....	0.76 fps
Flow Area.....	23.59 sf
Flow Top Width...	27.88 ft
Wetted Perimeter.	28.13 ft
Critical Depth...	0.29 ft
Critical Slope...	0.0203 ft/ft
Froude Number....	0.15 (flow is Subcritical)

Trapezoidal Channel Analysis & Design
Open Channel - Uniform flow

Worksheet Name: OUTFALL PATH

Description: BUCKINGHAM SWALE IMPROVEMENTS

Solve For Depth

Given Constant Data;


Bottom Width.....	20.00
Z-Left.....	4.00
Z-Right.....	4.00
Mannings 'n'.....	0.030
Channel Slope.....	0.0003
Channel Discharge..	18.00

<u>Variable Input Data</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Increment By</u>
=====	=====	=====	=====

Bottom Width ft	Z-Left (H:V)	Z-Right (H:V)	Mannings 'n'	Channel Slope ft/ft	COMPUTED	COMPUTED	
					Channel Depth ft	Channel Discharge cfs	Channel Velocity fps
20.00	4.00	4.00	0.030	0.0003	0.99	18.00	0.76

M E M O R A N D U M
FROM THE
DIVISION OF NATURAL RESOURCES MANAGEMENT

TO: George Crawford
Director, D.O.T.

FROM: Roland Ottolin 
Professional Engineer II

DATE: October 19, 1992

MEMO: D0072003

RE: Lee County Solid Waste Energy Recovery Facility

In response to the letter of request dated October 14, 1992 from Ink Engineering, Inc. concerning the proposed improvements to the Buckingham/State Road 82A roadside ditch, we concur with the proposed improvements for the Buckingham/State Road 82A roadside ditch. However, the detailed design drawings with the proposed roadside ditch elevations, grade(s) and culvert invert elevations will need to be submitted for review and approval.

Our review and concurrence is based on the following information submitted:

1. "Review Package for Surface Water Management Permit", dated September 1992, submitted to the SFWMD.
2. Information contained in the letter dated October 14, 1992 showing the typical cross section.
3. Offsite drainage area map submitted on 10-16-92.
4. The telephone conversation between yourself and Brad Vance on 10-16-92 concerning some of the parameters used in the design, and the confirmation letter dated 10-19-92.

(Note: That submitted for items 2, 3 and 4 are attached for informational purposes.)

Lee County Solid Waste Energy Recovery Facility
October 19, 1992
Page 2 of 2

In regards to additional or future connections to the roadside ditch and their affects, these matters will need to be reviewed on a case-by-case basis. It is our understanding that the proposed improvements are needed and associated with the facility itself. Should other developments impose an additional burden to the roadside ditch, then mitigating or improvements on their behalf will be required.

Additionally, it is not within our jurisdiction to comment on behalf of the Florida Department of Transportation (FDOT) concerning their drainage facilities associated with State Road 82 itself.

Should you have any questions or need any additional information, please contact me at extension 2791.

Enclosures