



# Project Correspondence

1724

RESOURCE MANAGEMENT ROUTING SHEET

Permit# 50126

Rule: 40C-40

Report Date: Oct 06, 2000

Date Received: Oct 02, 2000

Appl. Received: Feb 07, 2000

Date Issued:

Mail Type: Response to RAI

Project Name: North Hancock Road (Phase 2)

County: 069

Lake

Name	Job Title	Office
Marjorie D Cook	Senior Professional Engineer	Orlando
Barbara N Prynosi	Regulatory Scientist II	Orlando

GENERAL COUNCIL:

\_\_\_\_\_

\_\_\_\_\_

Copied and Routed By: NCH on 10-6-00

Routed from: Orlando



September 28, 2000

Vanasse Hangen Brustlin, Inc.

Ref: 60633.00

Ms. Marjorie D. Cook, P.E.  
Department of Water Resources  
St. Johns River Water Management District  
618 E. South Street  
Orlando, Florida 32801

Re: North Hancock Road, Phase 2  
Application No. 40-069-50126-3

Dear Ms. Cook:

In response to your letter dated August 29, 2000, for the above referenced project, we submit the response listed below.

1. The response to Item 1 of the District's June 28, 2000 RAI letter indicated that Lake County is still finalizing the agreements with the property owners of Skyridge Valley to utilize the ponds for runoff from North Hancock Road and that a copy of the agreements will be submitted under a separate cover. To date, the agreements or letter of authorization from Skyridge Valley property owners have not been received. Please submit a copy of the agreements when available.

**Response:** Attached are five (5) copies of a letter from Mr. Ralph Smith, Jr., Land Development Coordinator, Centex Homes, authorizing the use of the stormwater pond, in the Skyridge Valley subdivision, for the North Hancock Road project.

If you should have any questions or need additional information, please give me a call at (407) 839-4006.

Very truly yours,

VANASSE HANGEN BRUSTLIN, INC.

Paul W. Yeargain, P.E.  
Project Manager

Attachment

cc: Frederick Schneider, P.E., Lake County; C. Ashley Couch, P.E., Lake County

RECEIVED

OCT 02 2000

40-069-50126-3  
PDS  
ORLANDO  
SJR WMD

135 West Central Boulevard  
Suite 800  
Orlando, Florida 32801-2476  
407.839.4006 • FAX 407.839.4008  
email: info@vhb.com  
www.vhb.com

# CENTEX HOMES

Orlando Division

385 Douglas Avenue, Suite 2000  
Altamonte Springs, FL 32714

Office: (407) 661-2150

Fax: (407) 661-4089

[www.centexhomes-orlando.com](http://www.centexhomes-orlando.com)



September 21, 2000

Margie Cook  
318 E. South St.  
Orlando, FL 32801  
St. Johns River Water Mgmt. District

Re: N. Hancock Rd./Centex Homes

Dear Ms. Cook:

I am providing this letter to you on behalf of the Lake County Dept. of Public Works with regard to the N. Hancock Road planned extension. I am providing this letter to state our commitment to work with the County and provide a stormwater drainage pond north of our property at the intersection of Old CR 50 and North Hancock Rd. As you are aware, we currently have a stormwater permit for this retention pond. Our permit includes the stormwater calculations for the Hancock Rd. project. We are currently in the process of finalizing our purchase agreement over this area. Thank you for your assistance on this issue.

Sincerely,

A handwritten signature in black ink, appearing to read "Ralph Smith, Jr.".

Ralph Smith, Jr.  
Land Development Coordinator

Cc: Fred Schneider, Lake County Public Works  
Rick McCoy, McCoy and Associates

**RECEIVED**

OCT 02 2000

50126-3

PDS  
ORLANDO  
SJR WMD.

**REC'D**

SEP 27 2000

VHB FLORIDA

RESOURCE MANAGEMENT ROUTING SHEET

Permit# 50126 Rule: 40C-40 Report Date: Oct 06, 2000  
Date Received: Sep 27, 2000 Appl. Received: Feb 07, 2000  
Date Issued:  
Mail Type: Pending Application Correspondence

Project Name: North Hancock Road (Phase 2)  
County: 069 Lake

Name	Job Title	Office
Marjorie D Cook	Senior Professional Engineer	Orlando
Barbara N Prynoski	Regulatory Scientist II	Orlando

GENERAL COUNCIL:

\_\_\_\_\_  
\_\_\_\_\_

Copied and Routed By: NC14 on 10-6-00  
Routed from: Orlando

North Hancock Rd.  
Morgie, PAI

What is this  
piece of mail? and  
Do you have a number  
for this?

-Nia 9-29-06  
RAI response  
40-069-50126-3

# CENTEX HOMES

Orlando Division

385 Douglas Avenue, Suite 2000  
Altamonte Springs, FL 32714

Office: (407) 661-2150

Fax: (407) 661-4089

[www.centexhomes-orlando.com](http://www.centexhomes-orlando.com)



September 21, 2000

Margie Cook  
318 E. South St.  
Orlando, FL 32801  
St. Johns River Water Mgmt. District

Re: N. Hancock Rd./Centex Homes

Dear Ms. Cook:

I am providing this letter to you on behalf of the Lake County Dept. of Public Works with regard to the N. Hancock Road planned extension. I am providing this letter to state our commitment to work with the County and provide a stormwater drainage pond north of our property at the intersection of Old CR 50 and North Hancock Rd. As you are aware, we currently have a stormwater permit for this retention pond. Our permit includes the stormwater calculations for the Hancock Rd. project. We are currently in the process of finalizing our purchase agreement over this area. Thank you for your assistance on this issue.

Sincerely,

A handwritten signature in black ink, appearing to read "Ralph Smith, Jr.".

Ralph Smith, Jr.  
Land Development Coordinator

Cc: Fred Schneider, Lake County Public Works  
Rick McCoy, McCoy and Associates

RECEIVED

SEP 27 2000  
50126-3  
PDS  
ORLANDO  
SJR WMD



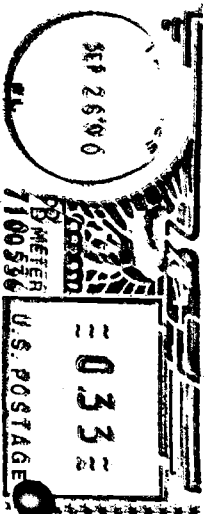
*Lake County*

**BOARD OF COUNTY COMMISSIONERS**

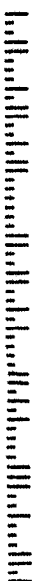
**DEPARTMENT OF PUBLIC WORKS**

123 N. SINCLAIR AVE.  
TAVARES, FLORIDA 32778-3229

Ms. Margie Cook  
St. Johns River Water Management District  
318 East South Street  
Orlando, Florida 32801



32801-3515 24







## Resource Management Routing Sheet

**Application Number:** 40-069-50126-3

**Date Issued:**

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**Date Mail Processed:** 8/30/2000      **Date Mail Received:** 8/29/2000

**Applicant:** Lake County Department of Public Works

**Project Name:** North Hancock Road, Phase 2

**Mail Type:** RAI LETTER

**Mail Routed to :**

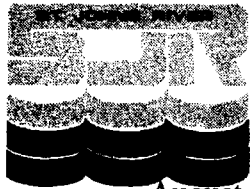
MARGIE COOK	ENGINEER	ORL
BARBARA PRYNOSKI	ENVIRONMENTAL SPECIALIST	ORL

**Comments:**

**Data Capture Person:** Shirlee Arrowood

---

**Signature:** SA      **Wednesday, August 30, 2000**



**WATER  
MANAGEMENT  
DISTRICT**

August 29, 2000

**POST OFFICE BOX 1429**

TELEPHONE 904-329-4500

TDD 904-329-4450

FAX (Executive) 329-4125

**PALATKA, FLORIDA 32178-1429**

1-800-451-7106

SUNCOM 904-860-4500

TDD SUNCOM 860-4450

(Permitting) 329-4315

(Administration/Finance) 329-4508

**SERVICE CENTERS**

618 E. South Street  
Orlando, Florida 32801  
407-897-4300  
1-877-228-1658  
FAX 407-897-4354  
TDD 407-897-5960

7775 Baymeadows Way  
Suite 102  
Jacksonville, Florida 32256  
904-730-6270  
1-800-852-1583  
FAX 904-730-6267  
TDD 904-448-7900

**PERMITTING:**  
305 East Drive  
Melbourne, Florida 32904  
407-984-4940  
1-800-295-3264  
FAX 407-722-5357  
TDD 407-722-5368

**OPERATIONS:**  
2133 N. Wickham Road  
Melbourne, Florida 32935-8109  
407-752-3100  
TDD 407-752-3102

CERTIFIED MAIL 7099 3220 0006 8660 4802

Mr. Paul W. Yeargain, P.E.  
VHB, Inc.  
135 West Central Blvd. Suite 800  
Orlando, FL 32801-2436

Re: North Hancock Road (Phase 2); Application Number 40-069-50126-3  
(Please reference the above number on any submittal)  
(Formerly Application Number 42-069-1391ANGM2-ERP)

Dear Mr. Yeargain:

The staff has reviewed your response to the District's request for additional information. Unfortunately the following technical information is lacking to sufficiently review the possible impacts the project may have on the surrounding area. This information is again being requested pursuant to the authority vested in the St. Johns River Water Management District under subsection 373.413(2), Florida Statutes, and sections 40C-4.101 and 40C-4.301, Florida Administrative Code.

In order to expedite the review of your application, please use the application number referenced above on all correspondence, and submit three (3) copies of all requested information unless otherwise indicated by a specific information request.

1. The response to Item 1 of the District's June 28, 2000 RAI letter indicates that Lake County is still finalizing the agreements with the property owners of Skyridge Valley to utilize the ponds for runoff from North Hancock Road and that a copy of the agreements will be submitted under a separate cover. To date, the agreements or letter of authorization from Skyridge Valley property owners have not been received. Please submit a copy of the agreements when available. [40C-4.301(1)(a), (b), (c), (d), (e), (i), (j); 40C-42.024(2)(a); 40C-42.025(6), F.A.C.]

If the applicant wishes to dispute the necessity for any information requested on an application form or in a letter requesting additional information, he or she may pursuant to section 373.4141, Florida Statutes, request that District staff process the application without the requested information. If the applicant is then unsatisfied with the District's decision regarding issuance or denial of the application, the applicant may request a section 120.569, Florida Statutes, hearing pursuant to Chapter 28-106 and section 40C-1.1007, F.A.C.

William Kerr, CHAIRMAN  
MELBOURNE BEACH

Ometrias D. Long, VICE CHAIRMAN  
APOPKA

Jeff K. Jennings, SECRETARY  
MAITLAND

Duane Ottenstroer, TREASURER  
SWITZERLAND

Dan Roach  
FERNANDINA BEACH

William M. Segal  
MAITLAND

Otis Mason  
ST. AUGUSTINE

Clay Albright  
EAST LAKE WEIR

Reid Hughes  
DAYTONA BEACH



## Resource Management Routing Sheet

**Application Number:** 40-069-50126-3

**Date Issued:**

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**Date Mail Processed:**

8/7/2000

**Date Mail Received:**

8/4/2000

**Applicant:** Lake County Department of Public Works

**Project Name:** North Hancock Road, Phase 2

**Mail Type:** RAI RESPONSE (EXTERNAL)

**Mail Routed to :**

MARGIE COOK

ENGINEER

ORL

BARBARA PRYNOSKI

ENVIRONMENTAL SPECIALIST

ORL

**Comments:**

5 CPS OF LTR FRM Harry Sleek, 5 CALCS, RAI RSPNS LTR

**Data Capture Person:** Nia Hannon

---

**Signature:** Nia Hannon

Monday, August 07, 2000

PDS ROUTING SHEET

RECEIVED BY: mail 8/4

CHECK ENTERED: NA

OPENED BY: OB 8/4

STAMPED IN: OB 8/4

CHECKED/CODED BY: NH 7 Aug 00 RAI

NUMBERED: NH 7 Aug 00 40-069-50126-3

COPIED: NH 7 Aug 00

ENTERED INTO ACCESS: NH

ENTERED INTO GRS: NA

ENTERED INTO THE BOOK: NA

**Transportation  
Land Development  
Environmental  
Services**



**imagination | innovation | energy** Creating results for our clients and benefits for our communities

August 2, 2000

Vanasse Hangen Brustlin, Inc.

Ref: 60633.00

Ms. Marjorie D. Cook, P.E.  
Department of Water Resources  
St. Johns River Water Management District  
618 E. South Street  
Orlando, Florida 32801

Re: North Hancock Road, Phase 2  
Application No. 40-069-50126-3

Dear Ms. Cook:

In response to your letter dated June 28, 2000, for the above referenced project, we submit the responses listed below.

1. The response to Item 2.d. of the District's previous RAI letter indicates that Lake County is in the process of finalizing the agreements with the property owners to utilize the ponds for runoff from North Hancock Road and that a copy of the agreements will be submitted under a separate cover. To date, the agreements have not been received. Please submit a copy of the agreements when available.

**Response:** Attached are five (5) copies of a letter from Mr. Harry Sleek, Senior Vice President, Levitt Homes, Inc. authorizing the use of the stormwater ponds, in the Summit Greens subdivision, for the North Hancock Road project. Lake County is still finalizing the agreements with property owners of the Skyridge Valley subdivision. Once the agreement is finalized we will submit a copy to the District.

2. The District is in receipt of the supporting calculations provided in response to the previous RAI letter. Please be advised that all calculations submitted for public records must be signed, sealed, and dated. Only the first page of the calculations were signed and sealed. Please submit signed, sealed and dated calculations.

**Response:** Attached are five (5) signed, sealed, and dated copies of the above-referenced calculations.

**RECEIVED**  
AUG 04 2000

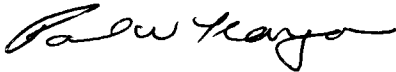
PDS  
ORLANDO  
SJR WMD  
135 West Central Boulevard  
Suite 800  
Orlando, Florida 32801-2476  
407.839.4006 • FAX 407.839.4008  
email: info@vhb.com  
www.vhb.com

Ms. Marjorie D. Cook, P.E.  
Project No.: 60633.00  
August 2, 2000  
Page 2

If you should have any questions or need additional information, please give me a call at (407) 839-4006.

Very truly yours,

VANASSE HANGEN BRUSTLIN, INC.



Paul W. Yeargain, P.E.  
Project Manager

Attachments

cc: Frederick Schneider, P.E., Lake County  
C. Ashley Couch, P.E., Lake County



July 5, 2000

Lake County Dept. of Public Works  
123 N Sinclair Avenue  
Tavares, FL 32778

Attn: Frederick J. Schneider, P.E., Engineering Director

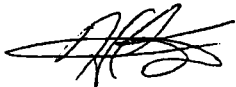
Re: N. Hancock Road Project/S. Lake Trail

This letter is to advise that we authorize Lake County to utilize our site for stormwater retention for the N. Hancock Road project.

It is our intention to utilize a shared retention pond for our proposed subdivision (Parcel I.D. #22-22-26-0001-000-01200; 01100), and the N. Hancock Road project.

Please contact me if we can be of further assistance.

Sincerely,



Harry Sleek, *Sr. Vice - Pres*  
Levitt Homes, Inc.  
7777 Glades Road, #410  
Boca Raton, FL 33434

/ph

**RECEIVED**

AUG 04 2000

PDS  
ORLANDO  
SIR WMD

**Table 1**  
**Summary of Permitted and Actual Drainage Areas**  
**North Hancock Road, Phase 2B**

North Hancock Road		Permit		
Basin	Impervious Area (acres)	Number	Pond Number	Impervious Area (acres)
C	3.37	40-069-62431-1	4A	3.50
C-1	1.44	40-069-62431-1	5A	2.10
D	3.01	40-069-62431-1	6B	3.40
E	2.72	4-069-0356-ERP	WRA "A"	2.21

**RECEIVED**

AUG 04 2000

OR  
SJR

*Paul W. York*  
8-2-00





Project: North Hancock Rd. Project # 60633.00  
 Location: Lake Co. Sheet 1 of 3  
 Calculated by: PUY Date: 5/31/00  
 Checked by: Date:  
 Title Evaluation of Treatment Volume of  
 WRA "A" Skyridge Valley

Under the permit (No. 4-069-0356-ERP) for Skyridge Valley WRA "A" was required to provide the following:

1. TV (TOTAL BASIN AREA <sup>BASINS</sup> A, 03-1, F) = 101,491 FT<sup>3</sup>
2. TV for Basin F (North Hancock Rd) = 11,033 FT<sup>3</sup>

The stage @ TV = 101,491 FT<sup>3</sup> = 95.74 feet  
 (See Stage-Storage - McCoy Associates)  
 Permit # 4-069-0356-ERP

The TV listed above provides for 2.21 ac of impervious area for North Hancock Road.

Based on the proposed conditions for North Hancock Road, the actual impervious area = 2.73 ac. This area requires an additional TV of:

$$(2.73 \text{ ac} - 2.21 \text{ ac})(1.25 \text{ in})(\frac{1 \text{ ft}}{12 \text{ in}})(\frac{43560 \text{ ft}^2}{1 \text{ ac}}) = 2360 \text{ ft}^3$$

This additional volume can be accommodated in the pond. At a total TV of 103,851 FT<sup>3</sup> (101,491 FT<sup>3</sup> + 2360 FT<sup>3</sup>) the stage would be 95.77 feet or an increase in stage of 0.02 feet.

∴ Given the minimal impact the additional impervious area of 0.52 acres would have on the stage (at TV), the pond can accommodate the additional impervious area.

*Rowen Young*  
8-2-00

Project: North Hancock Rd. Project # 60633.00  
 Location: Lake Co. Sheet 1 of 1  
 Calculated by: Pwy Date: 5/31/00  
 Checked by: Date:  
 Title Evaluation of Runoff - North Hancock Road.

Permit Conditions: (4-069-0356-ERP) for North Hancock Road

A = 6.91 Acres  
 CN = 57.87  
 P<sub>25-yr</sub> = 11.04 inches

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

$$S = \frac{1000}{CN} - 10$$

$$S = \frac{1000}{57.87} - 10 \Rightarrow S = 7.28$$

$$Q = \left( \frac{(11.04 - (0.2)(7.28))^2}{(11.04 + (0.8)(7.28)} \right) \Rightarrow Q = 5.45 \text{ inches}$$

$$RV = (5.45 \text{ in})(6.91 \text{ Ac}) \left( \frac{1 \text{ ft}}{12 \text{ in}} \right) \Rightarrow \boxed{RV = 3.14 \text{ Ac-ft}}$$

Proposed Conditions:

A = 3.98 Ac  
 CN =  $\frac{(98)(2.73) + (39)(1.25)}{3.98} \Rightarrow CN = 79.5$

$$S = \frac{1000}{79.5} - 10 \Rightarrow S = 2.58$$

$$RV = \left[ \frac{(11.04 - (0.2)(2.58))^2}{(11.04 + (0.8)(2.58)} \right] (3.98 \text{ Ac}) \left( \frac{1 \text{ ft}}{12 \text{ in}} \right) \Rightarrow \boxed{RV = 2.80 \text{ Ac-ft}}$$

∴ Since the Runoff Volume for the proposed condition is less than the permit condition, there will be no impact to the 25yr peak stage.

for review  
 5-2-00



# Computations

Project: North Hancock Rd.      Project # 60633-00  
Location: Lake Co      Sheet 1 of 1  
Calculated by: PWY      Date: 5/31/00  
Checked by:      Date:  
Title: Pollutant Removal (Basin F - CRSD)

$$\% \text{ Removal} = \frac{\% \text{ Removal}_A \text{ Area}_A + \% \text{ Removal}_B \text{ Area}_B}{\text{Area}_A + \text{Area}_B}$$

Area A = Basin D (North Hancock Rd)  
= 5.39 Acres

% Removal = 100 (Closed Basin)

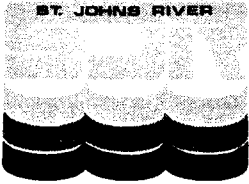
Area B = Basin F = 0.69 acres

% Removal = 0

$$\% \text{ Removal} = \frac{(5.39)(1.00) + (0.69)(0)}{5.39 + 0.69} \times 100\%$$

$$\% \text{ Removal} = 88.7\% \geq 80\%$$

*Paul W. Young*  
8-2-00



**WATER  
MANAGEMENT  
DISTRICT**

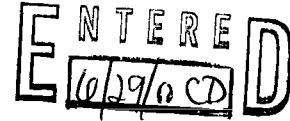
June 28, 2000

**POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429**  
TELEPHONE 904-329-4500 1-800-451-7106 SUNCOM 904-860-4500  
TDD 904-329-4450  
FAX (Executive) 329-4125 (Legal) 329-4485 (Permitting) 329-4315 (Administration/Finance) 329-4508

SERVICE CENTERS			
618 E. South Street Orlando, Florida 32801 407-897-4300 1-877-228-1658 FAX 407-897-4354 TDD 407-897-5960	7775 Baymeadows Way Suite 102 Jacksonville, Florida 32256 904-730-6270 1-800-852-1563 FAX 904-730-6267 TDD 904-448-7900	PERMITTING: 305 East Drive Melbourne, Florida 32904 407-984-4940 1-800-295-3264 FAX 407-722-5357 TDD 407-722-5368	OPERATIONS: 2133 N. Wickham Road Melbourne, Florida 32935-8109 407-752-3100 TDD 407-752-3102

CERTIFIED MAIL 7099 3220 0006 4678 0317

Mr. Paul W. Yeargain, P.E.  
VHB, Inc.  
135 West Central Blvd. Suite 800  
Orlando, FL 32801-2436



Re: North Hancock Road (Phase 2); Application Number 40-069-50126-3  
(Please reference the above number on any submittal)  
(Formerly Application Number 42-069-1391ANGM2-ERP)

Dear Mr. Yeargain:

The staff has reviewed your response to the District's request for additional information. Unfortunately the following technical information is lacking to sufficiently review the possible impacts the project may have on the surrounding area. This information is again being requested pursuant to the authority vested in the St. Johns River Water Management District under subsection 373.413(2), Florida Statutes, and sections 40C-4.101 and 40C-4.301, Florida Administrative Code.

In order to expedite the review of your application, please use the application number referenced above on all correspondence, and submit three (3) copies of all requested information unless otherwise indicated by a specific information request.

1. The response to Item 2.d. of the District's previous RAI letter indicates that Lake County is in the process of finalizing the agreements with the property owners to utilize the ponds for runoff from North Hancock Road and that a copy of the agreements will be submitted under a separate cover. To date, the agreements have not been received. Please submit a copy of the agreements when available. [40C-4.301(1)(a), (b), (c), (d), (e), (i), (j); 40C-42.025(6), F.A.C.]
2. The District is in receipt of the supporting calculations provided in response to the previous RAI letter. Please be advised that all calculations submitted for public records must be signed, sealed, and dated. Only the first page of the calculations were signed and sealed. Please submit signed, sealed and dated calculations. [40C-42.025(10), F.A.C.]

If the applicant wishes to dispute the necessity for any information requested on an application form or in a letter requesting additional information, he or she may pursuant to

Mr. Paul W. Yeargain, P.E.

June 28, 2000

Page 2

section 373.4141, Florida Statutes, request that District staff process the application without the requested information. If the applicant is then unsatisfied with the District's decision regarding issuance or denial of the application, the applicant may request a section 120.569, Florida Statutes, hearing pursuant to Chapter 28-106 and section 40C-1.1007, F.A.C.

Please be advised, pursuant to subsection 40C-1.1008, F.A.C., the applicant shall have 90 days from receipt of a request for additional information regarding a permit or license application undergoing review by the District to submit that information to the District. If an applicant requires more than 90 days in which to complete an application, the applicant may notify the District in writing of the circumstances and for good cause shown, the application shall be held in active status for additional periods commensurate with the good cause shown. Any application which has not been completed by the applicant within the given time period following a request for additional information by the District shall be recommended for denial at the next regularly scheduled Board meeting. Denial of an application due to failure to submit requested additional information shall be a denial without prejudice to the applicant's right to file a new application.

In addition, no construction shall begin on the proposed project until a permit is issued by the St. Johns River Water Management District. This is pursuant to subsection 40C-4.041(1), F.A.C., which states in relevant part, "unless expressly exempt, an individual or general environmental resource permit must be obtained from the District under Chapters 40C-4, 40C-40, 40C-42, 40C-44 or 40C-400, F.A.C., prior to the construction, alteration, operation, maintenance, removal or abandonment of any dam, impoundment, reservoir, appurtenant work or works...."

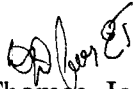
If you have any questions, please call me at 407/897-4316.

Sincerely,



Marjorie D. Cook, P.E.  
Department of Water Resources

MDC:mb

cc:  PDS/RAIL, Elizabeth Thomas, Joan B. Budzynski

Lake County Department of Public Works  
123 N. Sinclair Avenue  
Tavares, FL 32778

**Table 1**  
**Summary of Permitted and Actual Drainage Areas**  
**North Hancock Road, Phase 2B**

North Hancock Road		Permit		
Basin	Impervious Area (acres)	Number	Pond Number	Impervious Area (acres)
C	3.37	40-069-62431-1	4A	3.50
C-1	1.44	40-069-62431-1	5A	2.10
D	3.01	40-069-62431-1	6B	3.40
E	2.72	4-069-0356-ERP	WRA "A"	2.21

40-069-50126-3  
**RECEIVED**  
 JUN 02 2000  
 PDS  
 ORLANDO  
 SJR WMD

*Paul W. [Signature]*  
 5-31-00

05/31/2000



Computations

Project: North Hancock Rd. Project # 60633.00  
 Location: Lake Co. Sheet 1 of 3  
 Calculated by: PUY Date: 5/31/00  
 Checked by: Date:  
 Title: Evaluation of Treatment Volume of  
 WRA "A" Skyridge Valley

Under the permit (No. 4-069-0356-ERP) for Skyridge Valley WRA "A" was required to provide the following:

1. TV (TOTAL BASIN AREA <sup>BASINS</sup> A<sub>05-1, F</sub>) = 101,491 FT<sup>3</sup>
2. TV for Basin F (North Hancock Rd) = 11,033 FT<sup>3</sup>

The stage @ TV = 101,491 FT<sup>3</sup> = 95.74 feet  
 (See Stage-Storage - McCoy & Associates)  
 Permit # 4-069-0356-ERP

The TV listed above provides for 2.21 ac of impervious area for North Hancock Road.

Based on the proposed conditions for North Hancock Road, the actual impervious area = 2.73 ac. This area requires an additional TV of:

$$(2.73ac - 2.21ac)(1.25in)(\frac{1}{12}ft/in)(\frac{43560ft^2}{1ac}) = 2360ft^3$$

This additional volume can be accommodated in the pond. At a total TV of 103,851 FT<sup>3</sup> (101,491 FT<sup>3</sup> + 2360 FT<sup>3</sup>) the stage would be 95.77 feet or an increase in stage of 0.02 feet.

∴ Given the minimal impact the additional impervious area of 0.52 acres would have on the stage (at TV), the pond can accommodate the additional impervious area.

RECEIVED

JUN 02 2000

40-069-50126-3

PDS  
 ORLANDO  
 S.W.M.D.

mkgr.forms.humanres.computations.pm65

Project: North Hancock Rd. Project # 60633.00  
 Location: Lake Co. Sheet 1 of 1  
 Calculated by: Pwy Date: 5/31/00  
 Checked by: Date:  
 Title Evaluation of Runoff - North Hancock Road.

Permit Conditions: (4-069-0356-ERP) for North Hancock Road

$$A = 6.91 \text{ Acres}$$

$$CN = 57.87$$

$$P_{25-yr} = 11.04 \text{ inches}$$

$$Q = \frac{(P - 0.25)^2}{(P + 0.85)}$$

$$S = \frac{1000}{CN} - 10$$

$$S = \frac{1000}{57.87} - 10 \Rightarrow S = 7.28$$

$$Q = \left( \frac{(11.04 - 0.2)(7.28)^2}{(11.04 + 0.8)(7.28)} \right) \Rightarrow Q = 5.45 \text{ inches}$$

$$RV = (5.45 \text{ in})(6.91 \text{ Ac}) \left( \frac{1 \text{ ft}}{12 \text{ in}} \right) \boxed{RV = 3.14 \text{ Ac-ft}}$$

Proposed Conditions:

$$A = 3.98 \text{ Ac}$$

$$CN = \frac{(98)(2.73) + (39)(1.25)}{3.98} \Rightarrow CN = 79.5$$

$$S = \frac{1000}{79.5} - 10 \Rightarrow S = 2.58$$

$$RV = \left[ \frac{(11.04 - 0.2)(2.58)^2}{(11.04 + 0.8)(2.58)} \right] (3.98 \text{ Ac}) \left( \frac{1 \text{ ft}}{12 \text{ in}} \right) \Rightarrow \boxed{RV = 2.80 \text{ Ac-ft}}$$

∴ Since the Runoff Volume for the proposed condition is less than the permit condition, there will be no impact to the 25yr peak stage.



Project: North Hancock Rd.

Project # 6062300

Location: Lacey CO

Sheet 1 of 1

Calculated by: Pwy

Date: 5/21/00

Checked by:

Date:

Title: Pollutant Removal (Basin F - CRSD)

$$\% \text{ Removal} = \frac{\% \text{ Removal}_A \text{ Area}_A + \% \text{ Removal}_B \text{ Area}_B}{\text{Area}_A + \text{Area}_B}$$

$$\begin{aligned} \text{Area}_A &= \text{Basin D (North Hancock Rd)} \\ &= 5.39 \text{ Acres} \end{aligned}$$

$$\% \text{ Removal} = 100 \quad (\text{Closed Basin})$$

$$\text{Area}_B = \text{Basin F} = 0.69 \text{ acres}$$

$$\% \text{ Removal} = 0$$

$$\% \text{ Removal} = \frac{(5.39)(100) + (0.69)(0)}{5.39 + 0.69} \times 100\%$$

$$\% \text{ Removal} = 88.7\% \geq 80\%$$



## Resource Management Routing Sheet

Application Number: 40-069-50126-3

Date Issued: *P*

---

Date Mail Processed:

6/7/2000

Date Mail Received:

6/2/2000

Applicant: Lake County Department of Public Works

Project Name: North Hancock Road, Phase 2

Mail Type: RAI RESPONSE(EXTERNAL)

Mail Routed to :

MARGIE COOK

ENGINEER

ORL

BARBARA PRYNOSKI

ENVIRONMENTAL SPECIALIST

ORL

Comments:

fee; calcs

Data Capture Person: Lisette Bonilla

---

Signature: *Lisette Bonilla*

Wednesday, June 07, 2000

# Fee Receipt

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT  
P. O. Box 1429  
Palatka, FL 32178-1429

Date: Jun. 02, 2000

By: Lisette M Bonilla

RECEIPT #: 8939  
RECEIVED FROM: Lake County Warrant Board Of County Comm  
THE SUM OF: \$650.00

FOR: Application Fee

### FEE DETAIL INFORMATION

F/A Receipt                      O-020211                      \$650.00

803

FOR expense

CASH                       CHECK  
 MONEY ORDER                       DRAFT

ACCT. NO. 074380

RECEIVED OF ADDRESS Lake County Warrant Board of County Comm. North Hardscrabble Road, Phase 2

DATE 6/2/2000

8939  
O 020211

DOLLARS \$ 650.

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

P.O. Box 1429  
Palatka, Florida 32178-1429

BY Lisette Bonilla  
Thank You



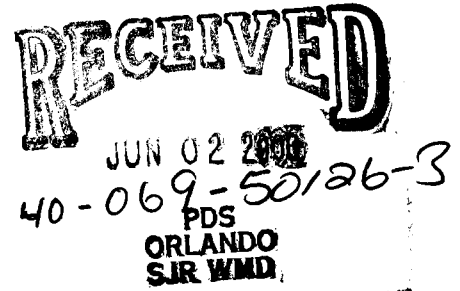
BA1 JB

June 2, 2000

Vanasse Hangen Brustlin, Inc.

Ref: 60633.00

Ms. Marjorie D. Cook, P.E.  
Department of Water Resources  
St. Johns River Water Management District  
618 E. South Street  
Orlando, Florida 32801



Re: North Hancock Road, Phase 2  
Application No. 40-069-50126-3

Dear Ms. Cook:

In response to your letter dated March 7, 2000, for the above referenced project, we submit the responses listed below.

1. Please be aware that the application fee for a Standard General Permit is \$1000. A check for \$350 was received on February 7, 2000. Please submit a check for \$650 to the St. Johns River Water Management District.

**Response: A check in the amount of \$650.00 is attached.**

2. It appears that the runoff from the proposed roadway will be conveyed to previously permitted retention basins for treatment and discharge volume and rate attenuation. As such, please provide the following information.
  - a. Demonstrate that the proposed roadway design is consistent with the assumptions made under the previously issued permits. Include a basin by basin breakdown of the drainage area and impervious areas proposed, compared to the areas assumed in the previously issued permits.

**Response: Please refer to Table 1, which is attached to this letter. As shown on the table, the impervious area of 2.21 acres that was assumed for Permit Number 4-069-0356-ERP is less than the actual impervious area of 2.73 acres, which is proposed to drain to the proposed pond. Based on our review of the calculations submitted for the permit, the pond is adequately sized to accommodate the additional 0.52 acres of impervious area. We have included calculations that show the pond has an adequate volume available to accommodate the water quality and quantity requirements of the additional area.**

135 West Central Boulevard  
Suite 800  
Orlando, Florida 32801-2476  
407.839.4006 • FAX 407.839.4008  
email: info@vhb.com  
www.vhb.com

Ms. Marjorie D. Cook, P.E.  
Project No.: 60633.00  
June 2, 2000  
Page 2

- b. It appears that the Master Drainage Plan for the Summit Greens Development accounted for the runoff from a portion of the Future North Hancock Road within Ponds 4A, 5A, and 6B, as indicated in the referenced Permit Number 40-069-624431-1. However, it appears that this permit did not include the construction of the referenced ponds. Please provide the permit number associated within the construction of Ponds 4A, 5A, and 6B.

**Response:** Based on our understanding of the above-referenced permit and our conversation with the design engineer, Miller Sellen, Permit Number 40-069-624431-1 modified two of the ponds to accommodate the stormwater runoff from North Hancock Road. All of the ponds were originally permitted with the previous permit. Both permits allow for the construction of the ponds.

- c. Please provide certification that the previously permitted ponds have been constructed and are function, as designed and permitted.

**Response:** The ponds have not been constructed at this time, but they will be constructed under permits 40-069-62431-1 (Summit Green – Phase 1B) and 4-069-0356-ERP (Skyridge Valley).

- d. Please identify the entity that is responsible for the operation and maintenance of the previously permitted ponds. Provide a letter of authorization form the operation and maintenance entity accepting runoff from the proposed roadway.

**Response:** The property owners (Centex and Levitt Homes, Inc.) will be responsible for the operation and maintenance of the stormwater ponds. Lake County is in the process of finalizing the agreements with the property owners to utilize the ponds for runoff from North Hancock Road. A copy of the agreements will be submitted under a separate cover.

3. Demonstrate that the runoff from the realignment of CR 50 will receive adequate treatment and discharge rate/volume attenuation prior to discharge to the receiving system. Removal an equivalent amount of impervious area does not necessarily compensate for the lack of treatment for new impervious areas.

**Response:** Please see the attached computation which shows that the stormwater runoff for the overall basin has at least 80 percent pollutant removal.



Ms. Marjorie D. Cook, P.E.  
Project No.: 60633.00  
June 2, 2000  
Page 3

If you should have any questions or need additional information, please give me a call at (407) 839-4006.

Very truly yours,

VANASSE HANGEN BRUSTLIN, INC.



Paul W. Yeargain, P.E.  
Project Manager

Attachments

cc: Frederick Schneider, P.E., Lake County  
C. Ashley Couch, P.E., Lake County



ERNIE MORRIS ENTERPRISES, BUSHNELL, FL 33513

(352) 793-2745

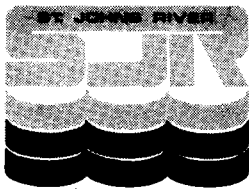
12-135583

20080

LAKE COUNTY WARRANT  
 BOARD OF COUNTY COMMISSIONERS  
 TAVARES, FLORIDA  
 TREASURERS CLEARING ACCOUNT  
 DATE 05/11/08  
 (VOID AFTER 90 DAYS) 0-0000211  
 PAYABLE AT  
 FIRST UNION NATIONAL  
 BANK OF FLORIDA  
 Tavares, Florida 32778  
 CHECK NO. 274382  
 \$650.00  
 PAY AMOUNT

TO THE ORDER OF ST JOHNS RIVER WATER MGMT DISTRICT

BOARD OF COUNTY COMMISSIONERS  
 LAKE COUNTY, FLORIDA  
 CHAIRMAN OF THE BOARD OF COUNTY COMM.  
 CLERK AND AUDITOR



**WATER  
MANAGEMENT  
DISTRICT**

Henry Dean, Executive Director  
John R. Wehle, Assistant Executive Director

**POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429**

TELEPHONE 904-329-4500 1-800-451-7106 SUNCOM 904-860-4500  
TDD 904-329-4450 TDD SUNCOM 860-4450  
FAX (Executive) 329-4125 (Legal) 329-4485 (Permitting) 329-4315 (Administration/Finance) 329-4508

618 E. South Street  
Orlando, Florida 32801  
407-897-4300  
1-877-228-1658  
FAX 407-897-4354  
TDD 407-897-5960

7775 Baymeadows Way  
Suite 102  
Jacksonville, Florida 32256  
904-730-6270  
1-800-852-1563  
FAX 904-730-6267  
TDD 904-448-7900

**SERVICE CENTERS**

**PERMITTING:**  
305 East Drive  
Melbourne, Florida 32904  
407-984-4940  
1-800-295-3264  
FAX 407-722-5357  
TDD 407-722-5388

**OPERATIONS:**  
2133 N. Wickham Road  
Melbourne, Florida 32935-8109  
407-752-3100  
TDD 407-752-3102

*2000*

This verifies that I have received the attached Request for Additional

Information for Application Number ~~40-069-50126-3~~ on 3/7/00  
*42-069-1391 AN6M2-ERP*

*Elaine James*  
Signature

Elaine James  
Print Name

*# 50126  
NO GRS  
#*

William Kerr, CHAIRMAN  
MELBOURNE BEACH

Ometrias D. Long, VICE CHAIRMAN  
APOPKA

Jeff K. Jennings, SECRETARY  
MAITLAND

Duane Ottenstroer, TREASURER  
SWITZERLAND

Dan Roach  
FERNANDINA BEACH

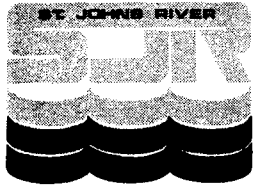
William M. Segal  
MAITLAND

Otis Mason  
ST. AUGUSTINE

Clay Albright  
EAST LAKE WEIR

Reid Hughes  
DAYTONA BEACH





**WATER MANAGEMENT DISTRICT**

March 7, 2000

HAND DELIVERED

Mr. Paul W. Yeargain, P.E.  
VHB, Inc.  
135 West Central Blvd. Suite 800  
Orlando, FL 32801-2436

Re: North Hancock Road (Phase 2); Application Number 40-069-50126-3  
(Please reference the above number on any submittal)  
(Formerly Application Number 42-069-1391ANGM2-ERP)

Dear Mr. Yeargain:

The St. Johns River Water Management District is in receipt of your Stormwater Management System Permit application. Please be advised that this application has been given the status of an Environment Resource (ERP) General Permit application pursuant to section 3.3, Applicant's Handbook. This transfer is administrative and requires no application resubmittal by the applicant.

An ERP Permit application status is now required for your project because the cumulative system (Phases 1A, 1B, and 2) exceeds the specified threshold requirements of paragraph 40C-4.041(2)(b), F.A.C. The cumulative project provides for the placement of twelve or more acres of impervious surface which constitutes 40 or more percent of the total land area [40C-4.041(2)(b)4, F.A.C.]

However, your application can be processed as an ERP Standard General Permit application because the proposed project does not appear to exceed the threshold conditions of chapter 40C-40.302(2), F.A.C., as stated below:

- a. The system must not be capable of impounding a volume of water more than 120-acre feet [40C- 40.302(2)(a), F.A.C.]
- b. The system must not serve a project of 100 acres or more total land area [40C-40.302(2)(8), F.A.C.]
- c. Construction or alteration of a system, including dredging or filling, must not be proposed in, on or over a total of one acre or more of wetlands and other surface waters. [40C-40.302(2)(c), F.A.C.]

*[Handwritten signature and date: 3/7/00]*

Henry Dean, Executive Director  
John R. Wehle, Assistant Executive Director

**POST OFFICE BOX 1429**

TELEPHONE 904-329-4500  
TDD 904-329-4450  
FAX (Executive) 329-4125 (Legal) 329-4485

**PALATKA, FLORIDA 32178-1429**

1-800-451-7106  
TDD SUNCOM 860-4450  
(Permitting) 329-4315 (Administration/Finance) 329-4508

**SERVICE CENTERS**

618 E. South Street  
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407-897-4300  
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TDD 407-897-5960

7775 Baymeadows Way  
Suite 102  
Jacksonville, Florida 32256  
904-730-6270  
1-800-852-1563  
FAX 904-730-6267  
TDD 904-448-7900

PERMITTING:  
305 East Drive  
Melbourne, Florida 32904  
407-984-4940  
1-800-295-3264  
FAX 407-722-5357  
TDD 407-722-5368

OPERATIONS:  
2133 N. Wickham Road  
Melbourne, Florida 32935-8109  
407-752-3100  
TDD 407-752-3102

William Kerr, CHAIRMAN  
MELBOURNE BEACH

Ometrias D. Long, VICE CHAIRMAN  
APOPKA

Jeff K. Jennings, SECRETARY  
MAITLAND

Duane Ottenstroer, TREASURER  
SWITZERLAND

Dan Roach  
FERNANDINA BEACH

William M. Segal  
MAITLAND

Otis Mason  
ST. AUGUSTINE

Clay Albright  
EAST LAKE WEIR

Reld Hughes  
DAYTONA BEACH

Please note that under the status of an ERP Standard General Permit application, a permit can be issued by rule and processing of the Standard General Permit application will follow the procedures outlined in section 6.0, Applicant's Handbook.

Upon preliminary review of the proposed project, the following technical information is required to sufficiently review the possible impacts the project may have on the surrounding area. This information is being requested pursuant to the authority vested in the St. Johns River Water Management District under subsection 373.413(2), Florida Statutes and sections 40C-4.101 and 40C-4.301, Florida Administrative Code.

In order to expedite the review of your application, please use the application number referenced above on all correspondence, and submit three (3) copies of all requested information unless otherwise indicated by a specific information request.

1. Please be aware that the application fee for a Standard General Permit is \$1000. A check for \$350 was received on February 7, 2000. Please submit a check for \$650 to the St. Johns River Water Management District. [40C-1.603(4)(e), F.A.C.]
2. It appears that the runoff from the proposed roadway will be conveyed to previously permitted retention basins for treatment and discharge volume and rate attenuation. As such, please provide the following information.
  - a. Demonstrate that the proposed roadway design is consistent with the assumptions made under the previously issued permits. Include a basin by basin breakdown of the drainage area and impervious areas proposed, compared to the areas assumed in the previously issued permits.
  - b. It appears that the Master Drainage Plan for the Summit Greens Development accounted for the runoff from a portion of the Future North Hancock Road within Ponds 4A, 5A, and 6B, as indicated in the referenced Permit Number 40-069-624431-1. However, it appears that this permit did not include the construction of the referenced ponds. Please provide the permit number associated within the construction of Ponds 4A, 5A, and 6B.
  - c. Please provide certification that the previously permitted ponds have been constructed and are functioning, as designed and permitted.
  - d. Please identify the entity that is responsible for the operation and maintenance of the previously permitted ponds. Provide a letter of authorization from the operation and maintenance entity accepting runoff from the proposed roadway.

[40C-4.301(1)(a), (b), (c), (e), (i), (j); 40C-42.025(6), F.A.C.]

Mr. Paul W. Yeargain, P.E.

March 7, 2000

Page 3

3. Demonstrate that the runoff from the realignment of S.R. 50 will receive adequate treatment and discharge rate/volume attenuation prior to discharge to the receiving system. Removal of an equivalent amount of impervious area does not necessarily compensate for the lack of treatment for new impervious areas. [40C-4.301(1)(a), (b), (c), (d), (e), F.A.C.]

If the applicant wishes to dispute the necessity for any information requested on an application form or in a letter requesting additional information, he or she may pursuant to section 373.4141, Florida Statutes, request that District staff process the application without the requested information. If the applicant is then unsatisfied with the District's decision regarding issuance or denial of the application, the applicant may request a section 120.569, Florida Statutes, hearing pursuant to Chapter 28-106 and section 40C-1.1007, F.A.C.

Please be advised, pursuant to subsection 40C-1.1008, F.A.C., the applicant shall have 90 days from receipt of a request for additional information regarding a permit or license application undergoing review by the District to submit that information to the District. If an applicant requires more than 90 days in which to complete an application, the applicant may notify the District in writing of the circumstances and for good cause shown, the application shall be held in active status for additional periods commensurate with the good cause shown. Any application which has not been completed by the applicant within the given time period following a request for additional information by the District shall be recommended for denial at the next regularly scheduled Board meeting. Denial of an application due to failure to submit requested additional information shall be a denial without prejudice to the applicant's right to file a new application.

In addition, no construction shall begin on the proposed project until a permit is issued by the St. Johns River Water Management District. This is pursuant to subsection 40C-4.041(1), F.A.C., which states in relevant part, "unless expressly exempt an individual or general environmental resource permit must be obtained from the District under Chapters 40C-4, 40C-40, 40C-42, 40C-44 or 40C-400, F.A.C. prior to the construction, alteration, operation, maintenance, removal or abandonment of any dam, impoundment, reservoir, appurtenant work or works...."

If you have any questions, please call me at 407/897-4316.

Sincerely,



Marjorie D. Cook, P.E.  
Department of Water Resources

MDC:mb

cc: PDS/RAIL, Elizabeth Thomas, Joan B. Budzynski

Marsha-

Waiting for  
upgrade change order  
from Margie Cook  
in Orlando.

New number will  
be 40-069-50126-3.

Thanks  
Mary-

42-069-0391ANGM2 to  
40-069-50126-3

ms  
chugh  
3-16