



VIA HAND DELIVERY

November 5, 2007

Mr. Jeremy RiCharde
Department of Water Resources
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
975 Keller Road
Altamonte Springs, FL 32714-1618

111634-1
RECEIVED
NOV 06 07
PDS
ALTAMONTE SVC. CTR.

**RE: HEART HOUSE COMMUNITY CHURCH (BESH# 061108.0000)
APPLICATION NO. 42-069-111634-1, REVIEW #1 SUBMITTAL**

Dear Mr. RiCharde:

The following information is in regards to your request for additional information letter dated July 3, 2007:

1. It appears that the project is located within the Lake Apopka Hydro logic Basin. Demonstrate the surface water management system meets the criteria for the Lake Apopka Hydrologic Basin [40C-42.023(1)(d); 40C-41.063(8),F.A.C.; Section 11.7, Applicant's Handbook: Management and Storage of Surface Waters]

Please see included spreadsheet analysis for the Lake Apopka Basin criteria. Due to the fact that the project is only about 18% impervious over the entire basin, and about 30% impervious over the actual owned area, the SFR 40% impervious designation was used for the post condition. Additionally, the treatment volume required has been updated, and new recovery calculations are included to show that the entire treatment volume recovers in 3 days, and the entire pond volume recovers in 14 days.

2. Please be aware that the equivalent pond length and width used to demonstrate the required treatment volume will be recovered within 72 hours should be based on the pond dimensions at the treatment volume elevation. The equivalent length and width assumed appears to be based on the top of bank of the pond. Revise the calculations as necessary.

Please see revised recovery calculations. Effective length and width are now based on the pond bottom. This is not required by SJRWMD, but is extra conservative, and should show that the pond will recover within the required time frame.

[40C-42.023(1)(a); 40C-42.026(1)(c),F.A.C.]

3. There is insufficient information provided on the construction plans for District review.

Please provide the following information.

- a. It appears that the proposed stormwater management system will have no outfall/control structures. Please provide a point of discharge that will allow the system to discharge in the event that the water level exceeds that of the pond berm. Ensure that the outfall structure is designed to prevent onsite flooding. Provide plan, and profile view of the weir or point of discharge with associated elevations and dimensions.

A weir has been added to the plans. Please see revised plans.

- b. Please be aware that the stormwater management system must include a baffle, skimmer, grease trap or other mechanism suitable for preventing oil and grease from leaving the stormwater management system in concentrations that would cause or contribute to violations of applicable water quality standards in the receiving waters. Revise the plans accordingly.

Please see revised plans.

4. Based on review of the records with the Florida Department of State Division of Corporations, it does not appear that the permit applicant, Hear House Community Church, is a valid business entity in Florida. However, the Department of State records did indicate a business entity named Heart House Ministries, Inc, with Daniel Hartzog as an officer. However, the address was not consistent with the address listed on the application. Be advised, the District may only issue a permit and the owner(s) of the property are corporations, its status must be verifiable as existing, active corporations. Please provide proof that the permit applicant is authorized to do business in this state, or provide the name of a valid business entity to receive the permit. Please revise the application form accordingly. Note that the name and address on the application must match what's shown on the records with the Florida Department of State Division of Corporations.

Please see revised application.

ENGINEERS ♦ SURVEYORS ♦ LAND PLANNERS

350 North Sinclair Avenue ♦ Tavares, Florida 32778

Phone: 352.343.8481 ♦ Engineering Fax: 352.343.8495 ♦ Survey Fax: 352.343.5641

E-Mail: Info@besandh.com ♦ www.besandh.com

Enclosed you will find three (3) copies of all requested information. Should you have any questions with regards to this matter, please feel free to contact our office.

Sincerely,
BOOTH, ERN, STRAUGHAN & HIOTT, INC.



Charles C. Hiott, P.E.
Principal
chiott@besandh.com

CCH:am

Enclosures

cc: Pastor Daniel Hartzog, Heart House Community Church

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ACOE Application # _____

Date Application Received _____

Proposed Project Lat. _____

Proposed Project Long. _____

Fee Received \$ _____

Fee Receipt # _____

SJR Application # _____

Date Application Received _____

Date Received _____

Project Use Codes _____

Assigned Reviewers _____

Reviewer #'s _____

SECTION A

Are any of the activities described in this application proposed to occur in, on, or over wetlands or other surface waters? yes no

A. Type of Environmental Resource Permit Requested (check at least one)

- Noticed General - include information requested in Section B.
- Standard General (Single Family Dwelling) - include information requested in Sections C and D.
- Standard General (all other projects) - include information requested in Sections C and E.
- Individual (Single Family Dwelling) - include information requested in Sections C and D.
- Individual (all other projects) - include information requested in Sections C and E.
- Conceptual - include information requested in Sections C and E.
- Mitigation Bank Permit (construction) - include information requested in Sections C and F.
- (If the proposed mitigation bank involves the construction of a surface water management system requiring another permit defined above, check the appropriate box and submit the information requested by the applicable section.)
- Mitigation Bank (conceptual) - include information requested in Sections C and F.
- Standard General Stormwater - include information requested in Sections C and H
- Individual Stormwater - include information requested in Sections C and H

B. Type of activity for which you are applying (check at least one)

- Construction and operation of a new system including dredging or filling in, on or over wetlands and other surface waters.
- Alteration and operation of an existing system which was not previously permitted by a WMD or DEP.
- Modification of a system previously permitted by a WMD or DEP. Provide previous permit numbers: _____
- Alteration and operation of a system
- Abandonment of a system
- Removal of a system
- Extension of permit duration
- Construction and operation of additional phases of a system

C. Are you requesting authorization to use State Owned Submerged Lands? yes no

(If yes, include the information requested in Section G.)

D. For activities in, on or over wetlands or other surface waters, check type of federal dredge and fill permit requested:

- Individual N/A
- Programmatic General
- Nationwide

E. Are you claiming to qualify for an exemption? yes no

If yes provide rule number if known _____

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OWNER(S) OF LAND		ENTITY TO RECEIVE PERMIT (IF OTHER THAN OWNER)	
NAME Pastor Daniel Hartzog		NAME	
ADDRESS 12200 Hancock Road		ADDRESS	
CITY, STATE, ZIP Clermont, FL 34711		CITY, STATE, ZIP	
COMPANY AND TITLE Heart House Ministries, Inc.		COMPANY AND TITLE	
TELEPHONE (352) 243-7505 FAX (352) 243-7505		TELEPHONE () FAX ()	
AGENT AUTHORIZED TO SECURE PERMIT (IF AN AGENT IS USED)		CONSULTANT (IF DIFFERENT FROM AGENT)	
NAME		NAME Charles C. Hiott, P.E.	
COMPANY AND TITLE		COMPANY AND TITLE Booth, Ern, Straughan & Hiott, Inc.	
ADDRESS		ADDRESS 350 North Sinclair Avenue	
CITY, STATE, ZIP		CITY, STATE, ZIP Tavares, Florida 32778	
TELEPHONE () FAX ()		TELEPHONE (352) 343-8481 FAX (352) 343-8495	

Name of project, including phase if applicable: Heart House Community Church

Is this application for part of a multi-phase project? yes x no

Total applicant-owned area contiguous to the project 3.95 ac

Total project area for which a permit is sought 3.95 ac

Impervious area for which a permit is sought 1.85 ac

What is the total area (metric equivalent for federally funded projects) of work in, on, or over wetlands or other surface waters?
 0 acres square feet hectares Square meters

If a docking facility, the number of proposed new slips.

Project location (use additional sheets, if needed)
County(ies) Lake
Section(s) 34 Township(s) 22s Range(s) 26e
Section(s) Township(s) Range(s)
Land Grant name, if applicable
Tax Parcel Identification Number
Street address, road, or other location John Lake Road
City, Zip Code if applicable Clermont, 34711

Describe, in general terms, the proposed project, system or activity.

Construction of Church, Parking Lot and stormwater conveyance system.

If there have been any pre-application meetings, including at the project site, with regulatory staff, please list the date(s), location(s), and names of key staff and project representatives.

Please identify by number any MSSW/Wetland Resource/ERP/ACOE permits pending, issued or denied for projects at the location and any related enforcement actions.

Agency	Date	No. \Type of Application	Action Taken(Pending/Issued/Denied)
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Note: The following information is required for projects proposed to occur in, on or over wetlands or other surface waters that need a federal dredge and fill permit and/or authorization to use state owned submerged lands. Please provide the names, addresses and zip codes of property owners whose property directly adjoins the project (excluding applicant). Please attach a plan view showing the owner's names and adjoining property lines. Attach additional sheets if necessary.

1.		
2.		
3.		
4.		

By signing and submitting this application form, I am applying, or I am applying on behalf of the applicant, for the permit and any proprietary authorizations identified above, according to the supporting data and other incidental information filed with this application. I am familiar with the information contained in this application, and represent that such information is true complete and accurate. I understand this is an application and not a permit, and work prior to approval is a violation. I understand that this application and any permit issued or proprietary authorization issued pursuant thereto, does not relieve me of any obligation for obtaining any other required federal, state, water management district or local permit prior to commencement of construction. I agree, or I agree on behalf of my corporation, to operate and maintain the permitted system unless the permitting agency authorizes transfer of the permit to a responsible operation entity. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S., and 18 U.S.C. Section 1001.

Pastor Daniel Hartzog

Typed/Printed Name of Applicant (If no Agent is used) or Agent (If one is so authorized below)

Signature of Applicant/Agent

Date

5/29/07

President / Senior Pastor
(Corporate Title if applicable)

AN AGENT MAY SIGN ABOVE ONLY IF, THE APPLICANT COMPLETES THE FOLLOWING:

I hereby designate and authorize the agent listed above to act on my behalf, or on behalf of my corporation, as the agent in the processing of this application for the permit and/or proprietary authorization indicated above; and to furnish, on request, supplemental information in support of the application. In addition, I designate and authorize the above-listed agent to bind me, or my corporation, to perform any requirement which may be necessary to procure the permit or authorization indicated above. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S., and 18 U.S.C. Section 1001.

Typed/Printed Name of Applicant

Signature of Applicant

Date

(Corporate Title if applicable)

Please note: The applicant's original signature (not a copy) is required above.

PERSON AUTHORIZING ACCESS TO THE PROPERTY MUST COMPLETE THE FOLLOWING:

I either own the property described in this application or I have legal authority to allow access to the property, and I consent, after receiving prior notification, to any site visit on the property by agents or personnel from the Department of Environmental Protection, the Water Management District and the U.S. Army Corps of Engineers necessary for the review and inspection of the proposed project specified in this application. I authorize these agents or personnel to enter the property as many times as may be necessary to make such review and inspection. Further, I agree to provide entry to the project site for such agents or personnel to monitor permitted work if a permit is granted.

Pastor Daniel Hartzog

Typed/Printed Name

Signature

Date

5/29/07

President / Senior Pastor
(Corporate Title if applicable)

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SECTION C
ENVIRONMENTAL RESOURCE PERMIT NOTICE OF RECEIPT OF APPLICATION

This information is required in addition to that required in other sections of the application. Please submit five copies of this notice of receipt of application and all attachments. Please submit on 8 1/2" x 11" paper.

Project Name: Heart House Community Church
County: Lake
Owner: Pastor Daniel Hartzog, Heart House Ministries, Inc.
Applicant: Pastor Daniel Hartzog, Heart House Ministries, Inc.
Applicant's Address: 12200 Hancock Road, Clermont, FL 34711

1. Indicate the project boundaries on a USGS quadrangle map reduced or enlarged as necessary to legibly show the entire project. If not apparent from the quad map, attach a location map showing a north arrow and a graphic scale. Section(s), Township(s), and Range(s); and sufficient detail to allow a person unfamiliar with the site to find it.

2. Provide the names of all wetlands, or other surface waters that would be dredged, filled, impounded, diverted, drained, or would receive discharge (either directly or indirectly), or would otherwise be impacted by the proposed activity, and specify if they are in an Outstanding Florida Water or Aquatic Preserve.

3. Attach a depiction (plan and section views), which clearly shows the works or other facilities proposed to be constructed. Use a scale sufficient to show the location and type of works. Use multiple sheets, if necessary.

4. Briefly describe the proposed project (such as "construct a deck with boatshelter", "replace two existing culverts", "construct surface water management system to serve 150 acre residential development"); "Construction of Church, parking lot & stormwater conveyance system"

5. Specify the acreage of wetlands or other surface waters, if any, that are proposed to be disturbed, filled, excavated, or otherwise impacted by the proposed activity.

6. Provide a brief statement describing any proposed mitigation for impacts to wetlands and other surface waters (attach additional sheets if necessary):
N/A

Application Name: _____
Application Number: _____
Office where the application can be inspected: _____
Date to be posted: _____
Date to be removed: _____

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Heart House Community Church

Lake County, Florida

Stormwater Calculations

prepared by:



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350 North Sinclair Avenue ♦ Tavares, Florida 32778 ♦ Lake County
Phone (352) 343-8481 ♦ Fax (352) 343-8495
info@besandh.com ♦ www.besandh.com

Contract No. 061108.0000

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BOOTH, ERN, STRAUGHAN & HIOTT, INC.
350 North Sinclair Avenue
Tavares, Florida 32778



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Charles C. Hiott, P.E. #54813

Stormwater Report
for
Heart House Ministries

Introduction

The project has a project area of 3.920 acres which consist of the construction of a building, parking lot, and a stormwater system. The project also has offsite drainage of 2.622 acres. Therefore the total drainage acreage for the project is 6.542 acres. The project is located south of Johns Lake Road and east of Hancock Road in Section 33, Township 22 south, Range 26 east.

The proposed development is comprised of 1 basin (P-1). The existing condition E-1 has a drainage area of 6.542 acres and drains towards the north edge of the property. In the proposed condition, basin P-1 has a drainage area of 6.542 acres (1.814 Ac. impervious), which consists of a parking lot, building, sidewalk, and a stormwater system. The stormwater for this project will be retained using a retention pond.

This application is for a 40C-42 permit, as the project is less than 40 acres, and has less than 12 acres total impervious. The requirement for 40C-42 is for the pond to hold the pollution abatement volume and to recover that volume in 72 hours, and for the total pond volume to recover in 14 days.

Since the pond holds the pollution abatement volume, and recovers in the stated timeframe, the criteria has been met. The recovery calculations were performed using the program PONDS Version 2.26.

The soils map shows Candler sand (AtB, AtD, SCS Type A) onsite. The project is not located within a 100 year flood zone (12069C0565D). There are no wetlands onsite.

Water Quality Requirement

Under the regulation for dry ponds, the required pollution abatement volume for the project area is ½ inch of runoff over the entire drainage area, or 1.25 inches times the impervious area (which ever is greater) plus ½ inch of runoff over the entire drainage area.

Dry Retention Basin P-1

The pollution abatement volume will be provided in the retention pond.

The pollution abatement volume required by St. Johns River Water Management District is:

Total area	= 6.542 Ac.	
Pervious area	= 4.728 Ac.	<u>Impervious Area</u>
Impervious area	= 1.814 Ac.	Parking = 1.337 acres
		Building = 0.455 acres
(0.5"/12"/ft)*6.542	= 0.273 Ac-Ft	Sidewalk = 0.022 acres
	OR	Total Impervious = <u>1.814 acres</u>
(1.25"/12"/ft)*1.814	= 0.189 Ac-Ft	
	OR	
(2.00"/12"/ft)*6.542	= 1.090 Ac-Ft (for Lake Apopka Criteria)	

Therefore, St. Johns River Water Management District pollution abatement volume required is = 1.090 Ac-Ft = 47,480 Cu.Ft.
Volume Provided = 1.096 Ac-Ft = 47,742 Cu.Ft.

Pollution Abatement Volume Recovery occurs in 0.66 days, or 15.82 hours.
Full Volume Recover occurs in 0.66 days.

Storage

Pond P-1	Stage (Ft)	Area (Ac)	Vol (Ac-ft)	Cu.Vol (Ac-ft)
	206	0.127	0	0
	207	0.164	0.146	0.146
	208	0.207	0.186	0.332
	209	0.256	0.232	0.564
	210	0.310	0.283	0.847
	210.75	0.354	0.249	1.096
	211	0.368	0.090	1.186

$$CN = (98(1.814) + 39(4.728))/6.542 = 55.36$$

Site-Specific Pre-/Post- Pollutant Loading Analysis

Existing Condition	Land Use	Soil Type	Total P Loading (kg/ac-yr)		Basin Acreage (acres)	=	Inflow Mass Loading (kg/yr)	Treatment System	Inches of Retention Over Basin Area (inches)	Pollutant Removal Efficiency (%)	Outflow Mass Loading (kg/yr)
Basin 1	GROVE	HSG A	0.007	X	2.62	=	0.02				0.02
Basin 2	GROVE	HSG A	0.007	X	3.92	=	0.03				0.03
Basin 3											
Basin 4											
Basin 5											
Basin 6											
Basin 7											
Basin 8											
Basin 9											
Basin 10					<u>6.54</u>		<u>0.05</u>				<u>0.05</u>
Proposed Condition	Land Use	Soil Type	Total P Loading (kg/ac-yr)		Basin Acreage (acres)	=	Inflow Mass Loading (kg/yr)	Treatment System	Inches of Retention Over Basin Area (inches)	Pollutant Removal Efficiency (%)	Outflow Mass Loading (kg/yr)
Basin 1											
Basin 2											
Basin 3	SFR 40%	HSG A	0.25	X	6.54	=	1.64	Dry Retention	2.00	97	0.05
Basin 4											
Basin 5											
Basin 6											
Basin 7											
Basin 8											
Basin 9											
Basin 10					<u>6.54</u>		<u>1.64</u>				<u>0.05</u>

PONDS - Version 2.26
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And Robert D. Casper

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Farner, Barley & Associates, Inc.

Retention Pond Recovery Analysis

I. Job Information

Job Name: HEART HOUSE COMMUNITY CURCH (TREATMENT)
Engineer: CCH
Date: 10-02-07

II. Input Data

Equivalent Pond Length, [L] (ft):	160.00
Equivalent Pond Width, [W] (ft):	35.00
Pond Bottom Elevation, [PB] (ft above datum):	206.00
Porosity Of Material Within Pond, [p] (%):	100.00
Base Of Aquifer Elevation, [B] (ft above datum):	180.00
Water Table Elevation, [WT] (ft above datum):	181.00
Horizontal Saturated Hydraulic Conductivity, [Kh] (ft/day)	18.50
Fillable Porosity of Aquifer, [n] (%):	20.00
Vertical Unsaturated Infiltration, [Iv] (ft/day):	8.00
Runoff Volume, [V] (cubic feet)	47480.00
Percent Recovery Of Runoff Volume, [PV] (%)	100.00

III. Results

UNSATURATED FLOW

Recovery Time From Unsaturated Flow, [T1] (days):	0.6250
Recovered Volume From Unsaturated Flow, [V1] (ft ³):	28000.00

SATURATED FLOW

Recovery Time From Saturated Flow, [T2] (days):	0.0342
Recovered Volume From Saturated Flow, [V2] (ft ³):	19480.00
Maximum Radius Of Influence, [R] (ft):	18.20
Maximum Driving Head, [Hmax] (ft):	28.479
Minimum Driving Head, [Hmin] (ft):	25.000

TOTAL

Total Recovery Time, [T] (days):	0.6592
Total Recovered Volume, [V] (ft ³):	47480.00

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And Robert D. Casper

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Retention Pond Recovery Analysis

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I. Job Information

Job Name: HEART HOUSE COMMUNITY CURCH (TOTAL)
Engineer: CCH
Date: 10-02-07

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II. Input Data

Equivalent Pond Length, [L] (ft):	160.00
Equivalent Pond Width, [W] (ft):	35.00
Pond Bottom Elevation, [PB] (ft above datum):	206.00
Porosity Of Material Within Pond, [p] (%):	100.00
Base Of Aquifer Elevation, [B] (ft above datum):	180.00
Water Table Elevation, [WT] (ft above datum):	181.00
Horizontal Saturated Hydraulic Conductivity, [Kh] (ft/day)	18.50
Fillable Porosity of Aquifer, [n] (%):	20.00
Vertical Unsaturated Infiltration, [Iv] (ft/day):	8.00
Runoff Volume, [V] (cubic feet)	47742.00
Percent Recovery Of Runoff Volume, [PV] (%)	100.00

III. Results

UNSATURATED FLOW

Recovery Time From Unsaturated Flow, [T1] (days):	0.6250
Recovered Volume From Unsaturated Flow, [V1] (ft ³):	28000.00

SATURATED FLOW

Recovery Time From Saturated Flow, [T2] (days):	0.0351
Recovered Volume From Saturated Flow, [V2] (ft ³):	19742.00
Maximum Radius Of Influence, [R] (ft):	18.43
Maximum Driving Head, [Hmax] (ft):	28.525
Minimum Driving Head, [Hmin] (ft):	25.000

TOTAL

Total Recovery Time, [T] (days):	0.6601
Total Recovered Volume, [V] (ft ³):	47742.00