

LAYOUT 7/14/09 INSP 4 _____
INSP 2 7/22 INSP 5 _____
INSP 3 7/23 INSP 6 _____

ISSUE DATE: 7/10/2009 **PERMIT-HOOT H-600 BNR** P 531080

APPROVAL DATE: 7/24/09 **SEPTIC SYSTEM** A _____

TAX ID # 05-359007
ON-SITE SEWAGE DISPOSAL SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH

Garland Brian INSTALL ALTER

ADDRESS: 12871 Highland Road, Highland, MD 20777 PHONE NUMBER: 301-370-5432

SUBDIVISION Greenwood Farms LOT 14

ADDRESS: 7500 Greenwood Drive PROPERTY OWNER: Richard Sigurdson

HOOT SYSTEM BNR H-600 CAPACITY (GALLONS): 600gpd **Top Seamed Three Compartment Tank including Pump Tank**

PUMP CHAMBER CAPACITY (GALLONS): 760gal

LOCATION:	Existing tanks must be pumped and collapsed. Installation of new 'Hoot' system tank should be kept 100' from existing well or no closer than existing tanks.
NOTES:	A test of the blower, alarm, sensors in pump chamber, and the unit itself is required. Install Hoot system unit per manufacturer's instructions and no more than 3 feet below grade.

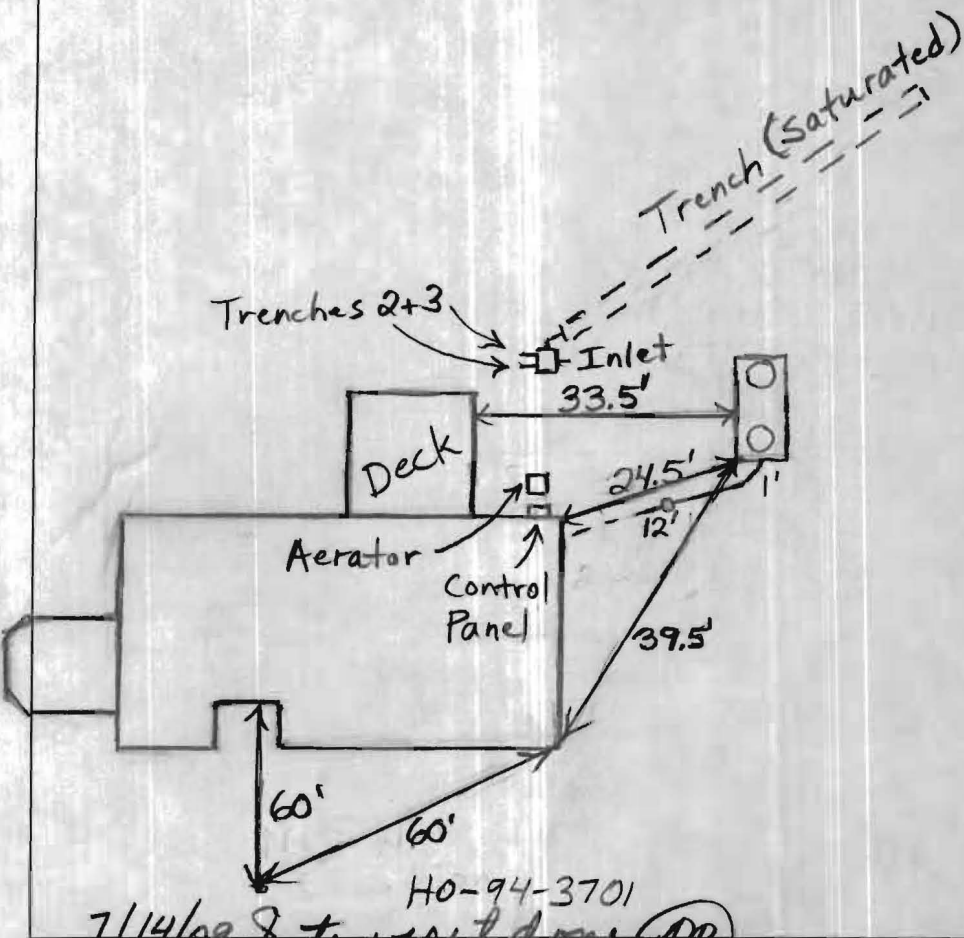
Note: *Certification start-up letter from manufacturer needs to be sent in to Health Dept. prior to septic system approval.*****

PLANS APPROVED: B. Baker DATE: 7/10/2009

NOTES: PERMIT VOID AFTER 2 YEARS
CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
WATERTIGHT SEPTIC TANKS REQUIRED
ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED
MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED
CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS PERMIT

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT ALL 410-313-1771 FOR INSPECTION OF SEPTIC SYSTEM

TRENCH/DRAINFIELD DATA (If Installed/Needed)		
WIDTH	INLET	BOTTOM
_____	_____	_____
NUMBER OF TRENCHES _____		
TOTAL LENGTH _____		
ABSORPTION AREA _____		
DIST. BOX LEVEL _____		
DIST. BOX BAFFLE _____		
DIST. BOX PORT _____		



HOOT 600 GPD BNR SYSTEM
BAY RESTORATION FUND

MANUFACTURER Mayer Bros.
 CAPACITY 2000+ GAL
 SEAM LOCATION Top
 TANK LID DEPTH 1.5"-2"
 FRONT BAFFLES Yes
 MANHOLE LOC Front+Rear
 6" PORT LOC None
 WATERTIGHT TEST No
 AERATOR FUNCTIONING Yes-per Mayer Bros
 ALARM FUNCTIONING Yes - Bros
 DATE ON LID None

7/14/09 Site visit done (BB)

7/22/09 Hoot installed and connected to house, old tank pumped and crushed. Installer reported that there was water in bottom of new tank hole Distribution box and one of the three existing trenches dug up. The trench was saturated but its inlet was the lowest one in the distribution box. The other 2 trenches still have some remaining usefulness but they are connected to the dist. box with orangeburg. Suggested replacing orangeburg. Old orangeburg pipe from new Hoot tank to dist. box to be replaced with HDPE and PVC. (BB)

FINAL INSPECTOR B. Baker

DATE OF APPROVAL 7/24/09

7/23/09 Received fax from Hoot (Mayer Bros.) that Hoot system was found to be working properly. (BB)

7/24/09 Pipe run from tank to dist. box per Garland. Approved. (BB)

SEPTIC SYSTEM REPAIR / UPGRADE / EVALUATION REQUEST

Please fill out this form completely and check off the reason for the request:

Date requested: _____

Reason for Request

Failing System (includes surface discharge or inadequate treatment zone) ?

Has the contractor verified through excavation/pumping evaluation, that there are no pipe blockages? _____

In support of a building permit. Type of building addition: _____

*System relocation for proposed addition for setback compliance _____

*Verification of adequate system capacity per COMAR 26.04.02.02D (4) _____

To replace collapsed septic tank or upgrade tank capacity _____

To replace collapsed drywell _____

Septic Contractor: Hutchins Equipment
Contractor's Address: PO Box 519 Annapolis Junction
MD. 20701

Contractor's Phone #: 301 440-5794 4289

Property Address: 7500 Greenwood Drive

Property (Subdivision) & Lot # _____

Owner's Name: Richard S. yordson

Is public sewer available/nearby: N/A

Names of Any Previous Owners: _____

Year House Built: _____

of Existing Bedrooms: _____

of Bedrooms after completion of addition: _____

Has this request been discussed previously with a Sanitarian, who? _____

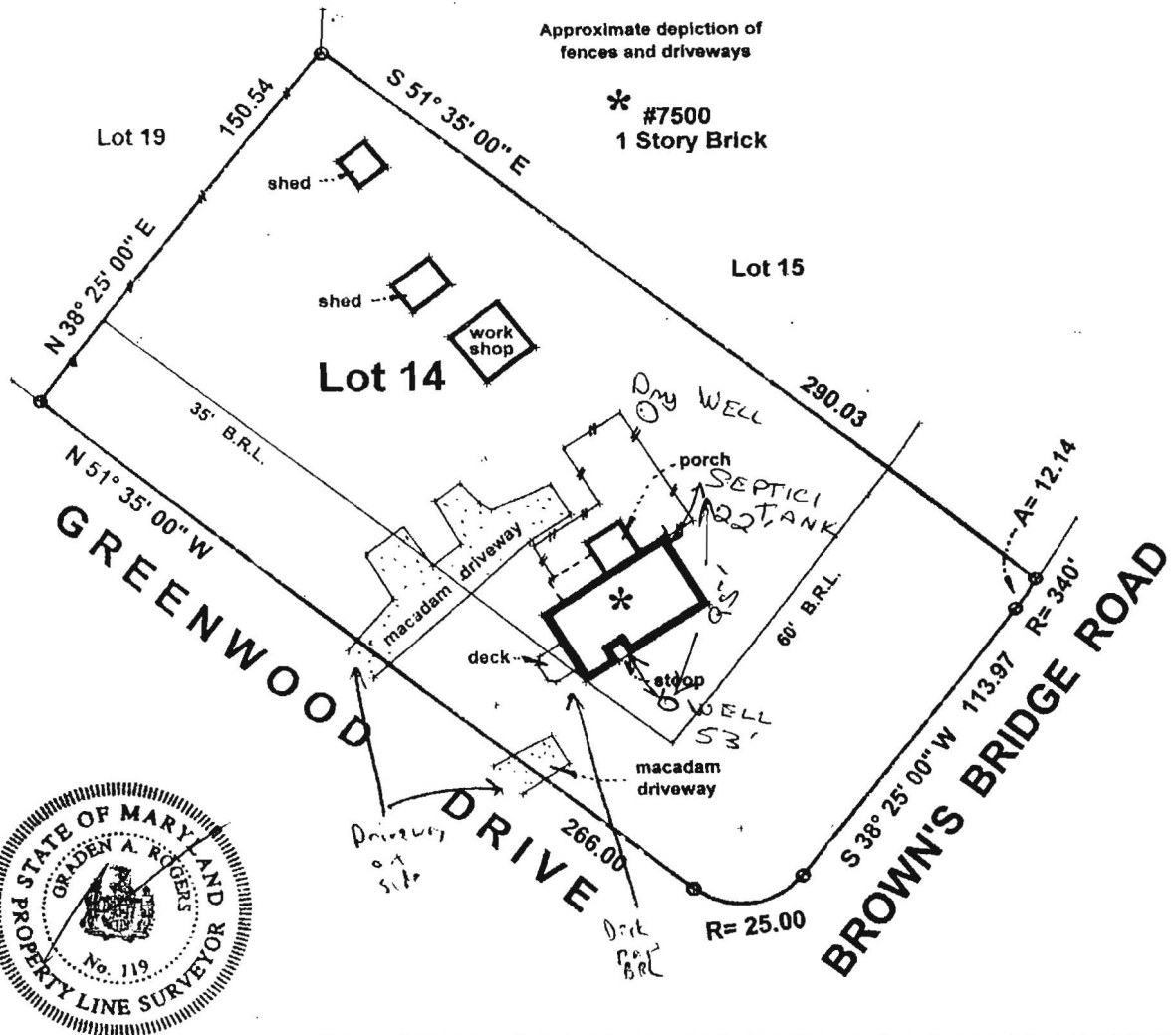
If public sewer is close, further research will be performed to verify availability and possible hook up to public sewer.

A Sanitarian will be in contact within three business days depending upon the urgency of the situation to coordinate the scheduling of the repair /upgrade/evaluation. No inspection will be performed without fee collection at the office.

Environmental Sanitarian tentatively assigned _____

LANDTECH ASSOCIATES, INC.

10260 OLD COLUMBIA ROAD SUITE J
 COLUMBIA, MARYLAND 21046-1721
 PHONE: 410-290-8099 TOLL FREE: 888-290-1920
 FAX: 410-290-8299 TOLL FREE 888-290-1922

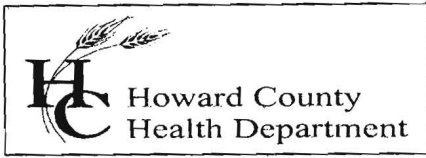


Location Survey of:	LOT: 14	BLOCK: none
#7500 Greenwood Drive	PLAT BK: 5	PLAT#: 28
SECTION TWO	DATE: 9-07-06	SCALE: 1"= 50'
GREENWOOD FARMS	CASE NUMBER: 3840-06-05405	
Howard County, MD	FILE NUMBER: LT-2064093	

- NOTES:
1. This plat is of benefit to a consumer only insofar as it is required by a lender or a title insurance company or its agent in connection with contemplated transfer, financing or re-financing.
 2. This plat is not to be relied upon for the establishment or location of fences, garages, buildings or other existing or future improvements.
 3. This plat does not provide for the accurate identification of property boundary lines, but such identification may not be required for the transfer of title or securing financing or re-financing.
 4. Property line survey recommended to determine the exact location of improvements and/or encroachments, if any.
 5. Property subject to any/all rights-of-way, easements, and/or covenants of record and/or imposed by law.
 6. This plat is not to be used for the issuance of permits.
 7. No title report furnished.

CERTIFICATION : I hereby certify that the position of the significant visible improvements on the above described property has been carefully established in compliance with the "Minimum Standards of Practice" for the State of Maryland.

Graden A. Rogers
 GRADEN A. ROGERS - M.D. PROP. L.S. LIC. NO. 119



Peter L. Beilenson M.D., M.P.H., Health Officer

Bay Restoration Fund (BRF) Installation Questionnaire

Provide a scaled site plan with the following information. A house location survey is acceptable.

- The house footprint and any accessory structures
Well location on the property and any neighboring wells within 100 foot of the property lines and any wells within 200 foot down grade from the septic system
All septic systems on neighboring properties that are within 100 foot of the property lines or within 200 feet up grade from the well serving the property (records may be available from the Health Department; however, if records are not available the systems must be field located)
Contour at two foot intervals is recommended and may be required for some installations

Will any components of the existing septic be utilized with the proposed treatment unit?

(Yes, no or N/A if the component is not part of the system)

- Septic tank No
Pump chamber No
Distribution box YES
Drainfields YES
Drywell YES
Mound system N/A
Other

If the existing septic tank or pump chamber is being utilized the tanks will need to be water tightness tested by the contractor/manufacturer of the pretreatment unit under supervision by the Health Department. Mid seam tanks must be replaced. Confirm that the tank baffles are functional. The pump chamber pumps and high water alarm will need to be tested after the installation.

If a new tank is required, are there site access restrictions? No

The contractor shall provide the following information in order to assure that the proposed installation will function properly. If an entire system is being installed, provide the waste line elevation at the point where the new system will be connected to the existing waste line. This information will be used to demonstrate that the installation will not be too deep.

- The manufacturer's recommended maximum depth of the proposed unit 3'
Elevation of the connection to the existing waste line 3' from ground surface
If a new waste line from the house to the system is to be installed, include the invert elevation at the house No

Invert elevations of the following:

(May be provided as depth below ground surface if contour is not provided)

- Septic tank inlet 3' down
Septic tank outlet 3' 4"
Distribution box
Beginning of trench or drywell if there is not a distribution box
Depth to top of tank 28"

A system start-up certification from the manufacturer must be sent to the Health Department.

All system installations are site specific and additional information may be required.

Form completed by Galand Brian Date 7/3/09

Print Name
Phone # 301 854 2161

AGREEMENT AND EASEMENT FOR INSTALLATION
OF BEST AVAILABLE TECHNOLOGY SYSTEMS
WITH BAY RESTORATION FUNDS.

000050

THIS AGREEMENT is made this 8th day of June, among Richard A. Sigurdson, Jr., hereinafter referred to as "Owner," the Howard County Health Department hereinafter collectively referred to as the "County," and the Department of the Environment, hereinafter referred to as the "Department."

WHEREAS, Owner owns a tract of land located on 7500 Greenwood Drive, in the 5th Election District of Howard County, Maryland, and the deed to same is recorded among the Land Records of Howard County, Maryland, in Ellicott City and in Liber 10310 Folio 618.

WHEREAS, the Bay Restoration Fund (BRF) may provide a grant for the cost attributable to upgrading an onsite sewage disposal system to the Best Available Technology (BAT) for the removal of nitrogen.

WHEREAS, the BRF may also provide a grant for the cost difference between a traditional onsite sewage disposal system and a system that utilizes the BAT for the removal of nitrogen.

WHEREAS, Owner understands that participation in the Bay Restoration Fund is voluntary.

NOW, THEREFORE, the parties hereto agree as follows:

- A. Owner hereby grants to the Department and the County the right to enter upon the property at any reasonable time for access to the system to make periodic inspections and the Owner agrees to provide any information and data requested and needed by the Department to develop accurate and thorough test results.
- B. Owner acknowledges and agrees that a manufacturer-approved installer will install the BAT system.

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20
20
82

- C. Owner acknowledges and agrees the manufacturer will provide for Operation and Maintenance of the BAT for a period of 5 years as a condition of sale of the BAT. After the 5 year period the Operation and Maintenance contract can be further extended at the behest of the property owner. The Department and County encourage the property owner to continuously maintain an Operation and Maintenance contract during the lifetime of the system.
- D. Owner acknowledges and agrees that the manufacturer appointed Operation and Maintenance provider will have access to the BAT system at all times.
- E. Owner acknowledges and agrees that the manufacturer or manufacturers designee will have access to sample the effluent of the BAT system. Owner acknowledges and agrees that the proposed installation of a BAT system funded by the BRF is voluntary. Owner agrees that there shall be no liability on the part of the County or Department to Owner if this BAT system fails, and that the County and the Department do not warrant or guarantee that the BAT system will adequately or properly function.
- F. Owner acknowledges and agrees that neither the County nor the Department nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.
- G. The Owner will devote such care and effort to the maintenance of the BAT system so that any malfunction is not the result of poor maintenance, faulty operation, or neglect.
- H. The Department agrees to grant \$ 13,100.00 toward the cost of installation of the BAT System, and financial responsibility is limited to this amount. Owner will present to the Department a signed contract from the demonstrating the total cost of installation. Operating costs will be at the Owner's expense.

- I. The Owner acknowledges that the BRF grant can only be used for that portion of the OSDS attributable to (BAT) for the removal of nitrogen.
- J. Owner acknowledges in the event the total project cost is greater than \$25,000 the proposal will have to be approved by the Maryland State Board of Public Works.
- K. The Owner agrees to contact both the Water Management Administration, On-Site Systems Division of the Wastewater Permits Program and the County at least forty-eight (48) hours prior to system installation, so that the Department has the opportunity to be present at the time of installation or thereafter for inspection.
- L. The Owner must install BAT system according to the manufacturer recommended plans and specifications approved by the Department.
- M. The Owner agrees and acknowledges that if installation deviates substantially from the approved plans or changes such that performance of the system is compromised or reduced, BRF funding will not be provided.
- N. This agreement shall run with the land and binds the Owner, his heirs, successors, assigns except that the provisions of paragraph A, C, D and E shall be binding for a period of 5 years only after installation of the system and occupation of the home. Owner further agrees that he shall inform in writing any purchaser or lessee of the property that the system may require maintenance or other attention. The Owner agrees to record this agreement in the land records of Howard County.
- O. This agreement shall not be construed to limit any authority of the Department to protect the public health, safety or comfort or to issue any other orders to take any other action that is now or may hereafter be within its authority.
- P. This agreement may be voided at the discretion of the Department if the system construction is not completed within forty-five (45) days of the effective date of this agreement.

Q. This agreement contains the entire agreement and understanding between the County and the Owner and the Department. There are no additional terms other than as contained in this agreement. This agreement may not be modified except in writing signed by each of the parties or by their authorized representatives.

R. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

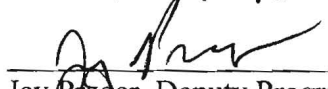
IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated

above.

DATE: 7/5/09


Owner RICHARD SIGURDSEN

DATE: 6/12/09


Jay Prager, Deputy Program Manager
Wastewater Permits Program
Maryland Department of the Environment

DATE: 7/6/2009


Howard County Health Department

IMP FD SURE \$	20.00
RECORDING FEE	20.00
PHOTOCOPY-A	2.00
TOTAL	42.00
Rec'd CH&S	Rcpt # 81906
MAR JME	Blk # 397
Jul 06, 2009	09:19 am



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
Website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

June 16, 2009

Richard Sigurdson
7500 Greenwood Drive
Highland, Maryland 20777

RE: Bay Restoration Fund On-site Sewage Disposal
System Program

Dear Richard Sigurdson,

The Health Department received your preliminary approval letter from the Maryland Department of the Environment for funding from the Bay Restoration Fund. This funding is for the installation of best available technology (BAT) for removing nitrogen as part of your on-site sewage disposal system.

Once the specific technology has been determined and approved by the Maryland Department of the Environment, you or your consultant will be responsible for providing a detailed cross-sectional/spec sheet of what is proposed to be installed at your property, i.e. new tank, BAT to be used with existing tank, etc. If a new tank is to be used, a drawing showing the new, detailed tank along with a profile showing the depth and amount of earth cover shall be submitted to this office. These details should be available from the manufacturer. If the existing tank is to be used, a structural analysis of the tank, i.e. water tightness, mid or top seam, cosmetic or physical damage, slotted, etc., needs to take place and approved by the manufacturer.

In addition, a scaled site plan showing the exact locations of the well and septic components, i.e. septic tank and dry well, must be submitted to this department for review. Neighboring septic systems and wells may need to be included on the site plan. Elevations of system components may be required based on site characteristics. Also submit contact information of the contractor that is to install the system, including a phone number. BAT systems may be subject to Howard County Health Department Code and the Annotated Code of Maryland Regulations (COMAR), i.e. setback to dwelling, existing drive, existing well, slopes, etc.

Once these comments have been reviewed by the Health Department, and a copy of the Agreement and Easement for Installation of Best Available Technology Systems with Bay Restoration Funds has been received in the Health Department; the septic permit can be released. A fee of \$396.00 is required in order to receive this septic permit for installation of the pretreatment system for the above referenced property.

If you have further questions regarding this matter, please contact me at (410) 313-1771.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Sara Sappington', written in black ink.

Sara Sappington, R.S.
Well and Septic Program



MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore MD 21230

410-537-3000 • 1-800-633-6101

Martin O'Malley
Governor

Shari T. Wilson
Secretary

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Deputy Secretary

June 8, 2009

Richard A. Sigurdson, Jr.
7500 Greenwood Drive
Highland, MD 20777

RE: Tax Map 40, Grid 18, Parcel 158, Lot 14

Dear Mr. Sigurdson:

Your bid package for the Bay Restoration Fund (BRF) Onsite Sewage Disposal System (OSDS) Program has been approved for the use of funds totaling not more than \$13,100.00. The accepted bid amount is for the installation of a Hoot 600 installed by Garland Brian for your property located at 7500 Greenwood Drive. **You have 45 days from the date of this letter to install the chosen system and submit to the Maryland Department of the Environment (MDE) the items below for disbursement.** An extension may be granted due to site conditions if you supply MDE a request in written letter form. You may choose to deviate from the selected unit, however the grant award for acceptable reimbursable expenses may not exceed \$13,100.00. All grants awarded through the MDE are reimbursable. This means that all work done prior to this letter cannot be considered for reimbursement. In order to be eligible for reimbursement you must sign and record a copy in the land records of Howard County the Agreement and Easement for Installation of Best Available Technology Systems with Bay Restoration Funds. You must provide MDE with the following:

- The contractor's and manufacturer's invoice. These invoices should include everything quoted in the bid. All expenditures greater than the bid amount will not be covered.
- A copy of the installation inspection performed by the Howard County Environmental Health program.
- A completed State Grant or Loan Payment Disbursement Request Form
- A copy of the Agreement and Easement for Installation of Best Available Technology Systems with Bay Restoration that shows that it has been recorded in the land records of Howard County.

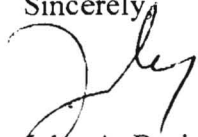
All submitted documentation would be reviewed for compliance. Once all documentation is submitted, you will receive a payment directly from the State Comptroller's office.



Page Two

The Maryland Department of the Environment thanks you for participating in this important program. If you have any further questions, please feel free to contact me at 410-537-3678 or 800-633-6101 ext 3678 or email at jboris@mde.state.md.us.

Sincerely,

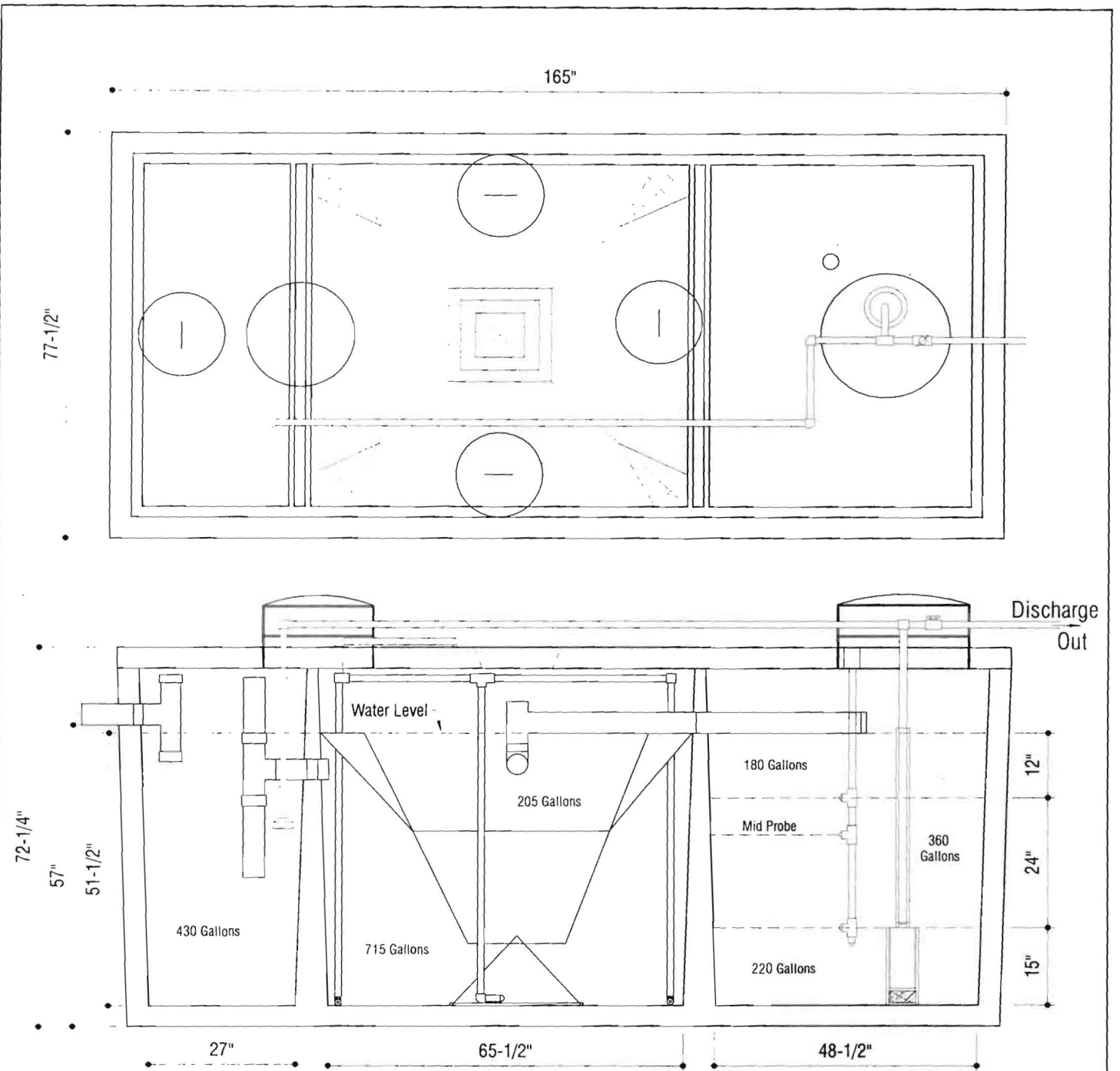


John A. Boris, Jr., R.S.
Bay Restoration Fund Project Manager

Enclosure

cc: Jay Prager
Steve Krieg, Regional Consultant
Howard County Health Department

11/27/04



DESIGN DATA & GENERAL NOTES

- [1] Concrete strength $f_c = 4,000$ p.s.i. @ 28 days. Density = 150 pcf.
- [2] Cement - Portland Type I/II per ASTM C 150-92.
- [3] Admixtures & plasticizers per ASTM C 260-86 & C 494-92.
- [4] Reinforcing per ASTM A185. Min. 1-1/2" cover.

Mayer Brothers, Inc.

6264 Race Road
 Elkridge, Maryland 21075
 Tel. 410.796.1434
 Fax. 410.796.1438
www.mayerbrosprecast.com



**600 GPD BNR SYSTEM
 H-600 ABNR**

with 750 GALLON PUMP CHAMBER

Dwg. No. Hoot Form #1

No Scale

March 19, 2009



MAYER BROS., INC.

Precast Concrete Products

6264 Race Rd. Elkridge, MD 21075

Federal ID 52-0706744

Letter of Satisfaction Hoot System Installation

Address of Property: 7500 Greenwood Dr.
Highland MD 20727


Date of Final Inspection: 7-22-09

Installer: Garland Brian

Hoot Technician/Inspector: Ed McMullen

I hereby certify that the Hoot system installed at the property listed above has been installed according to proper Hoot installation practices. I also have verified the start up of the system and it is in proper working order.

Sincerely,


Name of Inspector
Mayer Bros., Inc.

7-23-09
To: BRIAN
Howard Co.
Health Dept.

From: Ed McMullen
Mayer Bros.

PH: 410-796-1434

Fax: 410-796-1438

WBE

NPCA Certified Plant

mayerbro@connext.net

www.mayerbrosprecast.com

Grease Interceptors, Grease Solutions, HOOT Aerobic Treatment Units, Septic Tanks, Holding Tanks, Storm Water Structures, Hydroceptor, Beach Barrier, Water Meter Vaults, Sectional Valve Vaults, Top Slabs, Curb Heads, Curb Bumpers, Perm Entry Basement Entries, Sumpwell Window Wells, Custom Precast Products

Memorandum

To: Carletta McKnight

From: Michael J. Davis

Date: 6/11/2009

Re: Refund for 7500 Greenwood Drive, Greenwood Farms II, Lot 14

On March 26, 2009, Hatfields Equipment & Dedication Service paid a fee of \$165.00 for a septic repair percolation application. The repair percolation testing was not done and the owner changed his mind. Hence, Hatfields is requesting a refund for \$165.00 (Copy of the receipt is attached.) Please send the refund to:

Hatfield Equipment & Dedication Service
P.O. Box 519
Annapolis Junction, 20701

Thank you for your assistance in this matter.

*Hatfield's Equipment
and Dedication Services, Inc.*

P.O. Box 519 • Annapolis Junction, MD 20701-0519
Office: 301-490-4289 / 888-490-4289 • Fax: 301-490-5794

Howard County Health Department
Well and Septic Program
7178 Columbia Gateway Drive
Columbia, MD 21046
Atten: Mike Davis

June 1, 2009

Re: Permit refund

Hatfields Equipment has paid for permit # 30348, \$ 165.00 permit fee for septic repair perk. The owner has since changed their mind.

We are now requesting a refund or a credit for another repair permit of \$ 165.00 for the permit fee.

Any questions please contact our office at 301 490 4289.

Thank you for your time


Ken Hatfield