

Permit No.

21005

01-22-2001

HOPEWELL TOWNSHIP HEALTH DEPARTMENT

201 Washington Crossing - Pennington Road

Titusville, New Jersey 08560

TEL. (609) 737-0120 FAX (609) 737-2770

PERMIT

Applicant Harbat Farms Block 49 Lot 28

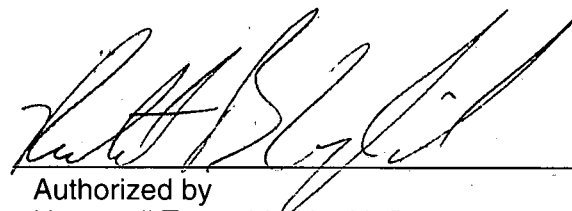
To Construction of New Water Supply: y

Location 45 Yard Road

Fee \$ 150.00

24 Hour Inspection Notification Required

This Permit is NOT Transferable



Authorized by
Hopewell Township Health Department

Permit is not transferable

to a structure is required NJAC7:10-12.12

HOPEWELL TOWNSHIP HEALTH DEPARTMENT

201 Washington Crossing - Pennington Road

Titusville, New Jersey 08560

TEL. (609) 737-0120 FAX (609) 737-2770

PERMIT

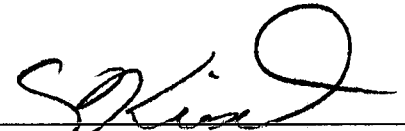
Harbat Farms

49

28

Applicant Construction of Individual Sewage Disposal System: y Block 49 Lot 28To 45 Yard RoadLocation \$ 200.00

Fee _____

24 Hour Inspection Notification Required
This Permit is NOT Transferable
Authorized by
Hopewell Township Health Department**Permit is not transferable****Permit valid for 2 years from issue date**

Emergency well

HOPEWELL TOWNSHIP HEALTH DEPARTMENT
201 WASHINGTON CROSSING PENNINGTON ROAD
TITUSVILLE, NEW JERSEY 08560

609-737-0120 FAX 609-737-1022

Permit Number 21005

Date Issued 1-18-01

Application Fee Received \$ 150.-

APPLICATION FOR PERMIT TO LOCATE AND CONSTRUCT AN INDIVIDUAL WATER SUPPLY & SYSTEM

SECTION A

Applicant Harbat Farms Phone (Home) 609-737- (Work) 609-737-2800

Mailing Address 64 Woosamonsa Rd.

City Pennington State NJ ZIP 08534

Location where well is to be constructed or altered Block 49 Lot 28

Street Yard Road City ZIP

Well Driller Samuel Stothoff Co., Inc. Phone (908) 782-2116

Mailing Address PO Box 306

City Flemington State NJ ZIP 08822

Signature of Applicant or Agent Richard H. Huthoff Date 1-16-01

SECTION B

State Well Permit Number 27-15878

State Permit Issue Date 1-16-01

Expiration of State Well Permit 1-15-02

SECTION C

Inspection of grouting and installation of casing Date 1-22-01

Length of casing installed 80' Feet

Method of grouting of annular space gravity

Inspector S. G. Huthoff License No. B1518

Instructions for completing application:

Application must be submitted with:

1. An engineers's site plan locating all existing and proposed wells and onsite sewage disposal systems within 200 feet.
2. A floor plan of the proposed structure showing all potential bedrooms, bathrooms and or other potential water uses (examples, underground lawn sprinklers, fire suppression systems, water fountains etc.).
3. A copy of the state well permit must be attached.
4. A check for the fee made payable to Hopewell Township.

Upon completion of the well construction a yield test must be conducted and the completed report submitted to the health department on an approved form.

Upon completion of the water supply system the completed state well and pump records must be submitted to the health department by the licensed well driller/pump installer.

Water potability tests per "The Safe Drinking Water Standards" must be collected by a certified testing laboratory and submitted to the health department prior to receiving final approval.

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

MAIL TO:

NJDEP
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NJ 08625-0426

PERMIT TO DRILL WELL

VALID ONLY AFTER APPROVAL BY THE D.E.P.

Permit No. 27-15878
Emergency # 1-15-01

COORD # 27.14.394

Property Owner Harbat Farms
Address 64 Woosamansa Road
Pennington, NJ 08534
Name of Facility Office Building
Address Yard Road

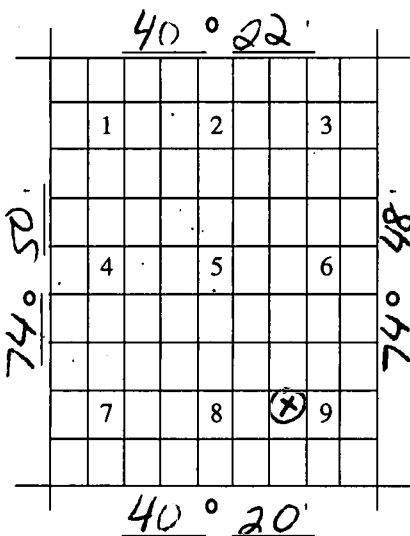
Driller Samuel Stothoff Co. Inc.
Address PO Box 306
Flemington NJ 08822

Diameter of Well	<u>6</u> Inches	Proposed Depth of Well	<u>400</u> Feet
Proposed Capacity of Pump	<u>5-10</u> GPM	Method of Drilling (Cable-tool, Rotary, etc.)	<u>Rotary</u>
Use of Well (See Reverse)	<u>Public-Non Community-Replacement</u>		
Drinking Water Supply?	<u>(yes) (see #6 on reverse)</u>		

LOCATION OF WELL

Lot #	Block #	Municipality	County
<u>28</u>	<u>49</u>	<u>Hopewell Twp</u>	<u>Mercer</u>

State Atlas Map No. 27



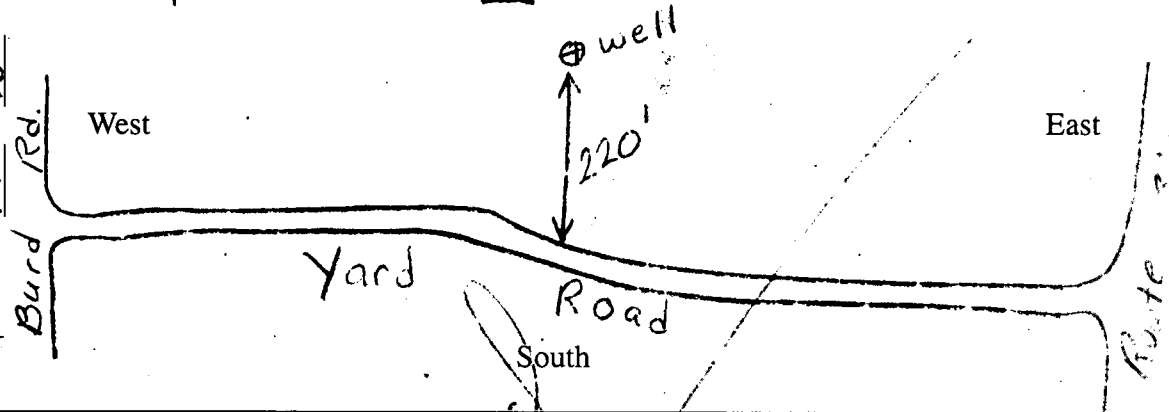
Well - 130' to septic tank

Field

Draw sketch showing distance and location of well site to nearest public roads, streets, components of the nearest sewage disposal system, etc.

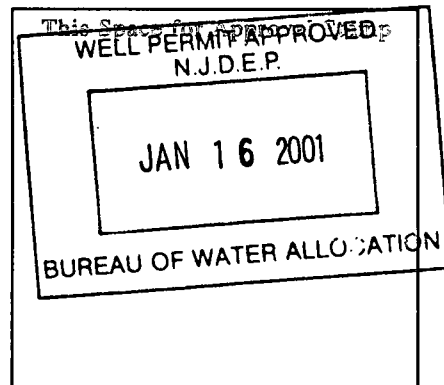
North

Well - 140' to Septic Field



SEE REVERSE SIDE FOR IMPORTANT PROVISIONS AND REGULATIONS PERTAINING TO THIS PERMIT. APPROVAL OF THIS PERMIT IS MADE SUBJECT TO ACCEPTANCE OF AND COMPLIANCE WITH THE FOLLOWING ADDITIONAL CONDITIONS.

- ☒ DOMESTIC/PUBLIC NON-COMMUNITY/NON-PUBLIC Water Supply Wells shall comply with N.J.A.C. 7:10-12.1 et seq.
- ☐ PUBLIC COMMUNITY Water Supply Wells shall obtain construction and operation permits from the Bureau of Safe Drinking Water in accordance with N.J.A.C. 7:10-11.1 et seq.
- ☐ CLOSED LOOP GEOTHERMAL - see attached conditions.
- ☐ OPEN LOOP GEOTHERMAL HEAT PUMP WELLS - Wells must be a minimum of 50 feet apart and the water must be returned to the same aquifer as the production well.
- ☐ INDUSTRIAL SUPPLY - A physical connection control permit shall be obtained pursuant to the provisions of N.J.A.C. 7:10-10.1 et seq.
- ☐ IRRIGATION SUPPLY - A physical connection control permit may be required pursuant to the provisions of N.J.A.C. 7:10-10.1 et seq.
- ☒ REPLACEMENT WELL - Existing well must be sealed by a certified New Jersey licensed well driller upon abandonment.
- ☐ IRRIGATION PURPOSES ONLY ☐ TEST PURPOSES ONLY
- ☐ PINELANDS - Well must be drilled and cased to a minimum depth of 100' unless the provisions of N.J.A.C. 7:50-6.84 (a)4.v. are met.
- ☐ MINIMUM distance requirements as per N.J.A.C. 7:10-12.12 have not been met - see attached condition(s).
- ☐ The well shall be equipped with a totalizing flow meter per N.J.A.C. 7:19-2 et seq.



In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date 1-15-01 Signature of Driller Samuel Stothoff Registration No. 108517
Signature of Property Owner Harbat Farms

USE OF WELL:

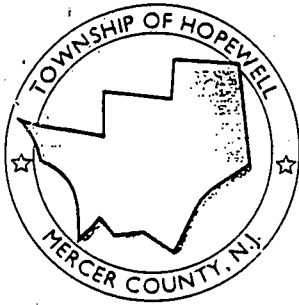
Agricultural/Horticultural
Domestic
Fire Protection
Geothermal Closed Loop
Geothermal Open Loop
Industrial
Irrigation

Livestock
Non-Public
Public Community Water Supply
Public Non-Community Water System
Replacement Type of Well (Specify)
Test

Make Checks Payable to: **"TREASURER - STATE OF NEW JERSEY"**

In accepting this permit the Owner and Driller agree to abide by the following terms and conditions:

1. This permit conveys no rights, either expressed or implied, to divert water.
2. Well permits, submitted incomplete and/or illegible will be returned without approval for modification.
3. **If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Allocation.**
4. In the event this well is abandoned, the Owner or Well Driller shall assume full responsibility for filling and sealing it in a manner satisfactory to the Bureau in accordance with provisions N.J.S.A. 58:4A-4.1 and applicable regulations.
5. This permit will be valid for one (1) year from date of approval. Department must be notified in writing of permit cancellation.
6. Drinking Water Supplies must be classified as either:
 - a. **Domestic** (private household)
 - b. **Non-Public Water Supply** (Other Than Domestic Supply)
 - c. **Public Community Water Supply** - at least 15 service connections or serves at least 25 individuals daily (municipal supply, community well, mobile home parks, etc.)
 - d. **Public Non-Community Water Supply** (campgrounds, restaurants, hospitals, etc.)
7. A well record must be submitted by the well driller to the Bureau of Water Allocation within ninety (90) days after the well is completed.
8. This permit is **NONTRANSFERABLE**.
9. All wells to be used as a drinking water supply should be tested in accordance with the requirements of the appropriate county/municipality Health Department.
10. If the use of the well is to be changed, a well permit for the proposed use of the well may be required for review and approval. The existing well permit number must be referenced on the application form.



TOWNSHIP of HOPEWELL

DEPARTMENT of HEALTH

Serving Hopewell Borough and Pennington Borough

201 WASHINGTON CROSSING PENNINGTON ROAD, TITUSVILLE, N.J. 08560

TELEPHONE 609-737-0120 / FAX 609-737-2770

January 22, 2001

Harbat Farms
64 Woosamonsa Road
Pennington, NJ 08534

Re: Block 49 Lot 28

To Whom It May Concern:

Enclosed is your permit to construct a well at the above referenced property.

Please have the well location staked by your engineer.

Please notify your well driller that the permit(s) has been approved. The driller will schedule the appropriate inspection.

Upon completion of the well, your well driller will conduct the required water availability test per township ordinance.

Prior to certificate of occupancy, a state certified laboratory must collect and test the water for NO Chlorine residual, coliform bacteria, nitrates, iron, manganese, pH and Volatile organic compounds EPA method 524.2, effective 8/1/00. Gross Alpha Particles and Arsenic are now required.

Corrective action must be completed if any of the above are found not to be in compliance with the Safe Drinking Water Standards.

Very Truly Yours,

Robert B. English
R.E.H.S.

cc: Bert Phillips

WELL RECORD

Well Permit Number

27 - 15070

Atlas Sheet Coordinates

27 14 374

OWNER

Address 14 WOODSAMONZA RD

City PENNINGTON

State NJ

Zip Code 08534

WELL LOCATION ADDRESS YARD RD

Owner's Well No. 2

County MERCER

Municipality HOPEWELL TWP

Lot No. 28

Block No. 17

WELL USE PUBLIC NON-COMMUNITY

DATE WELL STARTED 1 / 22 / 01

DATE WELL COMPLETED 1 / 22 / 01

WELL CONSTRUCTION

Total Depth Drilled 250 ft.

Finished Well Depth 250 ft.

Borehole Diameter:

Top 10 in.

Bottom 6 in.

Well Casing Begins:

2 ft. above grade or

 ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	<u>42</u>	<u>82</u>	<u>6</u>	<u>Steel</u>	<u>40</u>
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	<u>82</u>	<u>250</u>	<u>6</u>		
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	<u>0</u>	<u>82</u>	<u>10x6</u>	<u>Neat Cement Bentonite</u>	<u>2162</u> lbs

RECORD OF TEST

Test Date 1 / 22 / 01

Static Water Level 39 ft. below land surface

Water Level Measured Using m-scope

Pumping Water Level 80 ft. below land surface

Well Was Pumped Using air lift

Well Yield 17 gpm

If Pump Tested: Discharge Rate gpm

Duration of Test hours

PERMANENT PUMPING EQUIPMENT

S. Caka

Installed by S. Stothoff Co., Inc. Reg. No. 21861

Pump Type Submersible

Depth of Pump below land surface 100 ft.

Capacity 10 gpm Horsepower 1

Grouting Method Pressure grout with tremie line

Drilling Method Air rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0' - 7' Soil

7' - 250' Shale

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SAMUEL STOTHOFF CO., INC.

Well Driller (Print) Dennis Wene

Driller's Signature Dennis Wene

Registration No. 0931M Date 2/13/01



New
Jersey
Analytical
Laboratories

RECEIVED

MAR 6 2001

Hopewell Township Health Dept.

1590 Reed Road
Suite 102A
Pennington, NJ 08534

Tel: (609)737-3477
Fax: (609)737-3052
www.njal.com

Sample Information

NJAL Lab ID # 0709

Herbat Farms
64 Woosamonsa Road
Pennington, NJ
Bath Tap

Date Sampled: 2/2/01
Time Sampled: 11:01 PM
Sampled by: AT/NJAL
Date Received: 2/2/01

Parameter	Result	Detection Limit	Units	Maximum Contaminant Level	Method Code
Total Coliforms	N	not applicable	P/N	not applicable	EPA 307
E. Coli	N	not applicable	P/N	not applicable	EPA 307
pH	7.94	0-14	SU	6.5-8.5	EPA 150.1
Nitrate	1.9	0.1	mg/L	10	EPA 300.0
Iron	0.08	0.05	mg/L	0.30	SM 3111B
Manganese	0.02	0.01	mg/L	0.05	SM 3111B
Arsenic*	0.006, 0.0	0.001	mg/L	0.050	SM 3111B

N-Negative at 100 mls of sample

P-Positive at 100 mls of sample

ND-Not Detected

SU-Standard Units

mg/L-milligrams per liter (parts per million)

* Analysis performed by Lab ID # 03886

Coli Date Analyzed: 2/2/01

Coli Time Analyzed: 1630 hrs.

NJDEP Laboratory ID # 11005


George Latham, Laboratory Director

Precision testing for a cleaner environment.

New Jersey Analytical Laboratories

Sample Information

Lab ID NJAL #0709

Herbat Farms
64 Woosamonsa
Pennington, NJ
Bath Tap

Date Sampled: 2/2/01
Time Sampled: 11:01 AM
Sampled by: AT-NJAL
Date Received: 2/2/01

Volatile Organics (Method 524.4)

Analyte	Concentration	Method Detection
	ug/L	ug/L
Acetone	ND	<0.5
Acrylonitrile	ND	<0.5
Allyl Chloride	ND	<1.0
Benzene	ND	<0.5
Bromobenzene	ND	<0.5
Bromochloromethane	ND	<0.5
Bromodichloromethane	ND	<0.5
Bromoform	ND	<0.5
Bromomethane	ND	<0.5
2-Butanone	ND	<0.5
N-butylbenzene	ND	<0.5
Sec-butylbenzene	ND	<0.5
Tert-butylbenzene	ND	<0.5
Carbon Disulfide	ND	<0.5
Carbon Tetrachloride	ND	<0.5
Chloroacetonitrile	ND	<1.0
Chlorobenzene	ND	<0.5
1-Chlorobutane	ND	<0.5
Chloroethane	ND	<0.5
Chloroform	2.2	<0.5
Chloromethane	ND	<0.5
2-Chlorotoluene	ND	<0.5
4-Chlorotoluene	ND	<0.5
Dibromochloromethane	ND	<0.5
1,2-Dibromo-3-chloropropane	ND	<1.0
1,2-Dibromoethane	ND	<0.5
Dibromomethane	ND	<0.5
1,2-Dichlorobenzene	ND	<0.5
1,3-Dichlorobenzene	ND	<0.5
1,4-Dichlorobenzene	ND	<0.5
Trans-1,4-dichloro-2-butene	ND	<1.0
Dichlorodifluoromethane	ND	<0.5
1,1-Dichloroethane	ND	<0.5
1,2-Dichloroethane	ND	<0.5
1,1-Dichloroethene	ND	<0.5
Cis-1,2-dichloroethene	ND	<0.5
Trans-1,2-dichloroethene	ND	<0.5
1,2-Dichloropropane	ND	<0.5
1,3-Dichloropropane	ND	<0.5
2,2-Dichloropropane	ND	<0.5
1,1-Dichloropropene	ND	<0.5
Cis-1,3-dichloropropene	ND	<0.5
Trans-1,3-dichloropropene	ND	<0.5

ND: Not Detected above Method Detection Limit
ug/L: micrograms per liter (parts per billion)

Precision testing for a cleaner environment.

New Jersey Analytical Laboratories

Volatile Organics (Method 524.4) continued

Analyte	Concentration ug/L	Method Detection ug/L
Diethyl Ether	ND	<0.5
Ethylbenzene	ND	<0.5
Ethyl Methacrylate	ND	<0.5
Hexachlorobutadiene	ND	<0.5
Hexachloroethane	ND	<0.5
2-Hexanone	ND	<0.5
Isopropylbenzene	ND	<0.5
4-Isopropyltoluene	ND	<0.5
Methacrylonitrile	ND	<0.5
Methylacrylate	ND	<0.5
Methylene Chloride	ND	<0.5
Methyl Iodide	ND	<0.5
Methylmethacrylate	ND	<0.5
4-Methyl-2-pentanone	ND	<1.0
Methyl-t-butyl Ether	ND	<0.5
Naphthalene	ND	<0.5
Nitrobenzene	ND	<5.0
2-Nitropropane	ND	<0.5
Pentachloroethane	ND	<0.5
Propionitrile	ND	<0.5
N-propylbenzene	ND	<0.5
Styrene	ND	<0.5
1,1,1,2-Tetrachloroethane	ND	<0.5
1,1,2,2-Tetrachloroethane	ND	<0.5
Tetrachloroethene	ND	<0.5
Tetrahydrofuran	ND	<1.0
Toluene	0.4	<0.5
1,2,3-Trichlorobenzene	ND	<0.5
1,2,4-Trichlorobenzene	ND	<0.5
1,1,1-Trichloroethane	ND	<0.5
1,1,2-Trichloroethane	ND	<0.5
Trichloroethene	ND	<0.5
Trichlorofluoromethane	ND	<0.5
1,2,3-Trichloropropane	ND	<0.5
1,2,4-Trimethylbenzene	ND	<0.5
1,3,5-Trimethylbenzene	ND	<0.5
Vinyl Chloride	ND	<0.5
Ortho-xylene	ND	<0.5
Meta and Para-xylene	ND	<0.5

(j)

ND: Not Detected above Method Detection Limit
ug/L: micrograms per liter (parts per billion)



Allen F. Thomas

Precision testing for a cleaner environment.

709

Client Contact & Project Name

Herbat Farms 64 woosamansa road,
Pennington NJ 08661

Pennington NJ 08661

Sampling Method:

Crack

Project No.

Page 1 of 1

Comments

No
chk

Laboratory ID No

Sample ID Location

Date

Time

Sample Matrix

Number Bottles

Volume Bottles

Preservative

PH, NO3

T. Coli

Fc/mn/As.

VOE

Cross Alpha

①

Bath Tap

2-2-01

11:01

AG

1

1000

unp

X

↓

↓

↓

1

100

unp

X

1

300

SK

X

1

1200

HNO

X

2

40

HCl

X

Received by: (signature)

[Signature]

Date: 2-2-01

Time: 11:15

Received by: (signature)

Date:

Time:

Received by: (signature)

Date:

Time:

Received by: (signature)

Date:

Time:

New Jersey Analytical Laboratories

1600 Reed Road Suite 102A

Pennington, New Jersey 08661

Phone: 609-737-2677

Fax: 609-737-3082

Method of Storage

Received for Laboratory Use (Signature)

S. McGrady 2-2-01 11:15 hrs.

RCHARLES

TELEDYNE BROWN ENGINEERING Environmental Services

REPORT OF ANALYSIS

Feb 21 2001, 03:54 pm

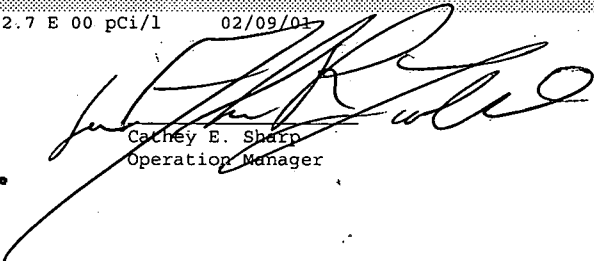
LOGIN # L14610

Address:	Work Order #	Cust. P.O. #	Date Received	Delivery Date	PAGE 1
GEORGE LATHAM NEW JERSEY ANALYTICAL LABORATORIES 1590 REED ROAD SUITE 102A PENINGTON NJ 08534	L14610	Release #:	02/09/01	02/11/01	Project Manager: R. CHARLES

Teledyne Sample #	Customer's Identification	Sta. #	Collection-Dates Start Date/Time	Stop Date/Time	Matrix/ Nuclide	Activity	Units	Count Date	Volume Procedure #	Units	Lab Comment
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Matrix - W-Drinking

L14610-1	709-01		02/07/01 10:35		Water-Drinking GR-A	3.7 +-2.7 E 00 pCi/l		02/09/01			32
TI#-51890											


Cathy E. Sharp
Operation Manager

Last Page of Report

HILL ENVIRONMENTAL GROUP, INC.

STANDARD FORM 2a

COUNTY/MUNICIPALITY

Mercer County, Hopewell Township

**APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR
AN INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM**

Form 2a—General Site Evaluation Data Lot 28 Block 49

1. Name of Site Evaluator (print): Albert J. Phillips

2. Business Address of
Site Evaluator: Hill Environmental Group, Inc.

3. Business Phone Number of Site Evaluator: 609-730-1205

4. Special Site Limitations Identified (Check appropriate Categories):

☒ Flood Plains — Bedrock Outcrops — Wetlands

— Excessively Stony — Disturbed Ground — Sink Holes

— Sand Dunes — Steep Slopes

☒ Other—Specify

Hydraulically restrictive horizons

5. Soil Logs—Enter on Form 2b—Use one sheet for each soil log.

6. Considerations Relating to Disturbed Ground: N/A

a) Type of Disturbance (Check appropriate categories):

Filled Area Excavated Area Re-graded Area
Subsurface Drain Other—Specify

b) Pre-existing Natural Ground Surface
Elevation Relative to Existing Ground Surface
Method of Identification



c) Suitability of Disturbed Ground

____ Unsuitable: Objects Subject to Disintegration or Change in Volume

____ Excessively Coarse

____ Proctor Test performed ____ % Standard Proctor Density= _____

7. Hydraulic Head Test:

a) Hydraulically Restrictive Horizon: Depth Top to Bottom _____

b) Piezometer A: Depth to Bottom _____ Depth of Water Level (24hrs) _____

c) Piezometer B: Depth to Bottom _____ Depth of Water Level (24 hrs) _____

d) Witnessed by: _____ Signature: _____ Date _____

8. Attachments (Check items included):

XX Site Plan

XX Key Map Showing Location of Site On U.S.G.S. Quadrangle or Other Accurate Map

XX Key Map Showing Location of Site on U.S.D.A. Soil Survey Map

XX Other—Specify NJDEP Standard Forms

9. I hereby certify that the information furnished on Form 2a of this application (and the attachments thereto) is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Soil Evaluator _____ see engineer _____ Date July 27, 2000

Signature of Professional Engineer Albert J. Phillips License # 32509

Albert J. Phillips, P.E.



2155

HILL ENVIRONMENTAL GROUP, INC.

AUG 17 2000

STANDARD FORM 1

Hopewell Township Health Dept.

SUBMISSION OF SOILS/ENGINEERING DATA

COUNTY/MUNICIPALITY Mercer County/Hopewell Township

APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR AN
INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM

Form 1—General Information

1. Type of Permit Needed (Check applicable categories):

- ☒ New Construction ☐ Alteration/No Expansion or Change of Use
- ☐ Alteration/Expansion or Change in Use
- ☐ Alteration/Malfunctioning System
- ☐ Deviation from Standards ☐ Repairs to Existing System

2. Location of Project:

Municipality: Hopewell Township Block No. 49 Lot No. 28
Street Address: Yard Road Zip 08534

3. Name of Applicant (print): Harbat Farms

4. Applicant's

Present Address: 64 Woosamonsa Rd.

5. Applicant's Phone Number 609-737-2626

6. Type Of Facility:

- ☐ Residential
- ☒ Commercial/Institutional Specify Type of
Establishment: 7000 sf storage barn, 1000 sf office

7. Type of Wastes to be Discharged:

- ☒ Sanitary Sewage
- ☐ Industrial Wastes
- ☐ Other—Specify Type



8. Other Approvals/Certifications/Waivers/Exemptions (Attach to Application)

- ☐ Pinelands Commission
☐ U.S. Army Corps of Engineers
☐ NJDEP—Bureau of Flood Plain Management
☐ Other—Specify: _____

9. I hereby certify that the information furnished on Form I of this application is true. I am aware that false swearing is a crime in this State and subject to prosecution.

Signature of Applicant: *Erwin Harbat, Partner*

Date: August 15, 2000 Typed name of applicant: Erwin Harbat

FOR AGENCY USE ONLY

☐ Application Denied—Reason for Denial/Citation of Rules Violated: _____

☒ Application Approved

☐ Application Approved Subject to Approval by NJDEP

Date of Action 9-5-00 Signature of Authorized Agent *[Signature]*

Name and Title _____



HILL ENVIRONMENTAL GROUP, INC.

STANDARD FORM 2b

COUNTY/MUNICIPALITY: Mercer County, Hopewell Township

Form 2b—Soil Log and Interpretation Lot 49 Block 28

1. Log Number PP-1 Method (Check One): ☒ Profile Pit ☐ Boring

Depth (inches) Top-Bottom	Munsell Color Name and Symbol; Estimated Textural Class; Estimated Volume % Coarse Fragment, If Present; Structure: Moist or Dry Consistence; Mottling—Abundance, Size and Contrast, If Present.
---------------------------------	---

0"- 6"	5YR 3/3	Dark reddish brown clay loam; 2% mixed gravel; no mottles; weak medium subangular blocky; moist firm; common roots; clear smooth boundary.
6"- 24"	2.5YR 4/4	Reddish brown clay; 20% shale 1/4" long by 1/8" thick; no mottles; weak medium subangular blocky; moist firm; few roots; gradual broken boundary.
24"-80"	2.5YR 4/4	Reddish brown clay; 100% shale 3" long by 3/4" thick; no mottles; platy shale fragments.



3. Ground Water Observations:

XX Seepage-Indicate Depth 80"

XX Pit/Boring Flooded—Depth after 4 Hours 18"

4. Soil Limiting Zones (Check Appropriate Categories):

- Fractured Rock Substratum- Depth to Top _____
- Massive Rock Substratum - Depth to Top _____
- X Excessively Coarse Horizon-Depth Top to Bottom 80"
- Excessively Coarse Substratum-Depth to Top _____
- X Hydraulically Restrictive Horizon-Depth Top to Bottom 24"
- Hydraulically Restrictive Substratum-Depth to Top _____
- Perched Zone of Saturation-Depth Top to Bottom _____
- X Regional Zone of Saturation-Depth to Top Assume 48"

5. Soil Suitability Classification: III Hr, Sc

6. I hereby certify that the information furnished on Form 2b of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator Christina Z. Underwood Date July 27, 2000

Signature of Professional Engineer: Albert J. Phillips License # 32509
Albert J. Phillips, P.E.



HILL ENVIRONMENTAL GROUP, INC.

STANDARD FORM 2b

COUNTY/MUNICIPALITY: Mercer County, Hopewell Township

Form 2b—Soil Log and Interpretation Lot 49 Block 28

1. Log Number PP-2 Method (Check One): ☒ Profile Pit ☐ Boring

Depth (inches) Top-Bottom	Munsell Color Name and Symbol; Estimated Textural Class; Estimated Volume % Coarse Fragment, If Present; Structure: Moist or Dry Consistence; Mottling—Abundance, Size and Contrast, If Present.
---------------------------------	---

0"- 8"	5YR 3/3	Dark reddish brown clay loam; 2% mixed gravel; no mottles; weak medium subangular blocky; moist firm; common roots; clear smooth boundary.
8"- 36"	2.5YR 4/4	Reddish brown clay; 100% shale 3" long by 3/4" thick; no mottles; weak medium subangular blocky; moist firm; few roots; gradual broken boundary.
36"-84"	2.5YR 4/4	Platy shale fragments.



3. Ground Water Observations:

N/A Seepage-Indicate Depth _____

N/A Pit/Boring Flooded—Depth after _____ Hours _____

4. Soil Limiting Zones (Check Appropriate Categories):

- Fractured Rock Substratum- Depth to Top _____
- Massive Rock Substratum - Depth to Top _____
- ☒ Excessively Coarse Horizon-Depth Top to Bottom 84"
- Excessively Coarse Substratum-Depth to Top _____
- Hydraulically Restrictive Horizon-Depth Top to Bottom _____
- Hydraulically Restrictive Substratum-Depth to Top _____
- Perched Zone of Saturation-Depth Top to Bottom _____
- Regional Zone of Saturation-Depth to Top _____

5. Soil Suitability Classification: III Sc

6. I hereby certify that the information furnished on Form 2b of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator Christina L. Unkenmeyer Date July 27, 2000

Signature of Professional Engineer: Albert J. Phillips License # 32509
Albert J. Phillips, P.E.



HILL ENVIRONMENTAL GROUP, INC.

STANDARD FORM 2b

COUNTY/MUNICIPALITY: Mercer County, Hopewell Township

Form 2b—Soil Log and Interpretation Lot 49 Block 28

1. Log Number PP-3 Method (Check One): ☒ Profile Pit ☐ Boring

Depth (inches) Top-Bottom	Munsell Color Name and Symbol; Estimated Textural Class; Estimated Volume % Coarse Fragment, If Present; Structure: Moist or Dry Consistence; Mottling—Abundance, Size and Contrast, If Present.
---------------------------------	---

0"- 6"	7.5YR 4/4	Brown clay loam; no gravel; no mottles; moderate/medium subangular blocky; moist firm; fine common roots; clear wavy boundary.
6"- 24"	2.5YR 4/4	Reddish brown clay; 10% medium gravel; 30% shale 1" long by 1/2" thick; no mottles; moderate/medium angular blocky; moist friable; few roots; clear boundary.
24"-54"	7.5YR 7/1	Light grey clay; no gravel; common fine distinct mottles 36"-60"; weak/fine subangular blocky; moist very firm; no roots; abrupt boundary.
54"-66"	2.5YR 4/4	Reddish brown clay; 50% shale 1" long by 1/2" thick; mottles to 60"; moderate/medium subangular blocky; moist firm; no roots; clear boundary.
66"-84"	2.5 YR 4/4	Reddish brown clay; 100% shale 3" long by 1/2" thick; no mottles; moderate/medium platy; moist firm; no roots.



3. Ground Water Observations:

N/A Seepage-Indicate Depth _____N/A Pit/Boring Flooded—Depth after _____ Hours _____

4. Soil Limiting Zones (Check Appropriate Categories):

- Fractured Rock Substratum- Depth to Top _____
- Massive Rock Substratum - Depth to Top _____
- ☒ Excessively Coarse Horizon-Depth Top to Bottom 66"-84"
- Excessively Coarse Substratum-Depth to Top _____
- ☒ Hydraulically Restrictive Horizon-Depth Top to Bottom 54"
- Hydraulically Restrictive Substratum-Depth to Top _____
- Perched Zone of Saturation-Depth Top to Bottom _____
- Regional Zone of Saturation-Depth to Top _____

5. Soil Suitability Classification: II Hr , IISc

6. I hereby certify that the information furnished on Form 2b of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator Christina J. Underwood Date July 27, 2000Signature of Professional Engineer: Albert J. Phillips License # 32509
Albert J. Phillips, P.E.

HILL ENVIRONMENTAL GROUP, INC.

STANDARD FORM 2b

COUNTY/MUNICIPALITY: Mercer County, Hopewell Township

Form 2b—Soil Log and Interpretation Lot 49 Block 28

1. Log Number PP-4 Method (Check One): ☒ Profile Pit ☐ Boring

Depth (inches) Top-Bottom	Munsell Color Name and Symbol; Estimated Textural Class; Estimated Volume % Coarse Fragment, If Present; Structure: Moist or Dry Consistence; Mottling—Abundance, Size and Contrast, If Present.
---------------------------------	---

0"- 12" 7.5YR 4/4	Brown clay loam; no gravel; no mottles; moderate/medium subangular blocky; moist firm; fine common roots; clear wavy boundary.
12"- 36" 2.5YR 4/4	Reddish brown clay; 50% shale 1" long by 1/2" thick; no mottles; moderate/medium subangular blocky; moist friable; fine roots; clear boundary.
36"-60" 7.5YR 7/1	Light grey silty clay; no gravel; common fine distinct mottles 36"-60"; weak/fine angular blocky; moist very firm; no roots; abrupt boundary.
60"-72" 2.5YR 4/4	Reddish brown clay; 50% shale 1" long by 1/2" thick; no mottles; moderate/medium subangular blocky; moist firm; no roots; clear boundary.
72"-102" 2.5 YR 4/4	Reddish brown clay; 100% shale 3" long by 1/2" thick; no mottles; moderate/medium platy; moist firm; no roots.



3. Ground Water Observations:

N/A Seepage-Indicate Depth _____N/A Pit/Boring Flooded—Depth after _____ Hours _____

4. Soil Limiting Zones (Check Appropriate Categories):

- Fractured Rock Substratum- Depth to Top _____
- Massive Rock Substratum - Depth to Top _____
- ☒ Excessively Coarse Horizon-Depth Top to Bottom _____
- ☒ Excessively Coarse Substratum-Depth to Top 102"
- ☒ Hydraulically Restrictive Horizon-Depth Top to Bottom 60"
- Hydraulically Restrictive Substratum-Depth to Top _____
- Perched Zone of Saturation-Depth Top to Bottom _____
- ☒ Regional Zone of Saturation-Depth to Top 36"-60"

5. Soil Suitability Classification: Sc, IIHr

6. I hereby certify that the information furnished on Form 2b of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator Christina E. Underwood Date July 27, 2000

Signature of Professional Engineer: Albert J. Phillips License # 32509
Albert J. Phillips, P.E.



HILL ENVIRONMENTAL GROUP, INC.

STANDARD FORM 3a

COUNTY/MUNICIPALITY Mercer County, Hopewell Township

APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR AN INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM.

Form 3a. Soil Permeability Data

Lot 28 Block 49

Assign a number for each test and a letter for each test replicate. Show test data and calculations on Form 3b, 3c, 3d, 3e, 3f or 3g. Use one sheet for each separate test or replicate.

1. Summary of Data—Enter data for each test replicate on a separate line.

Type of Test	Test (number)	Replicate (letter)	Depth (Inches)	Result*
Basin Flood	TP-1		78"	Passed
Basin Flood	TP-2		36"	Passed
Basin Flood	TP-3		102"	Failed
Basin Flood	TP-4		54"	Passed

For tube permeameter, pit-bailing and piezometer tests report results in inches per hour. For Soil permeability class rating give soil permeability class number. For percolation test report result in minutes per inch. For basin flooding test report result as positive if basin drains completely within 24 hours after second filling, negative otherwise.

2. Design Permeability/Percolation Rate: Specify Test Number TP-1 >2"/hr

XX — Average of Test Replicates — Single Replicate
— Slowest of Replicates

3. Type of Limiting Zone Identified

Test Number

Hydraulically restrictive Horizon

All tests



4. Attachments (Check items included):

- Form 3b—Tube Permeameter Test Data—Number of Sheets _____
- Form 3c—Soil Permeability Class Rating Test Data—
Number of Sheets _____
- Form 3d—Percolation Test Data—Number of Sheets _____
- Form 3e—Pit-Bailing Test Data—Number of Sheets _____
- Form 3f—Piezometer Test Data—Number of Sheet _____
- ☒ Form 3g—Basin Flooding Test Data—Number of Sheets _____
2 each by 4 tests

5. I hereby certify that the information furnished on Form 3a of this application (and the attachments thereto) is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Soil Evaluator Same as engineer Date July 27, 2000

Signature of Professional Engineer  License # 32509
Albert J. Phillips, P.E.



HILL ENVIRONMENTAL GROUP, INC.

STANDARD FORM 3g

COUNTY/MUNICIPALITY Mercer County, Hopewell Township

Form 3g. Basin Flooding Test Data

1. Test Number TP-1 Reference Soil Log PP-3 Date Tested July 27, 2000

2. Depth of Pit, ft. 6.5 feet

3. Area of Pit, ft² 6 x 13 = 78 sf

4. Description of Rock Substratum Within Test Zone: _____

Type of Rock Fractured shale

Name of Formation _____

Average Fracture Spacing 3"

Type of Fractures (Check Appropriate Category):

☒ Open (Wide), Clean-Width of Openings, mm 0.5-1.0

☐ Open (Wide), Infilled with Fines-Width of Openings, mm

☐ Tight (Closed)

Orientation of Fractures:

☒ Horizontal (Parallel to Pit Bottom) Or Nearly So

☐ Inclined

☐ Vertical (Parallel to Sides of Pit) Or Nearly So



Hardness of Rock:

— Rippable with Hand Tools

☒ Not Rippable with Hand Tools, Rippable by Machine

— Not Rippable by Machine, Explosives Used/Not Used

5. Time of First Basin Flooding 10:30

Volume of Water Added, Gal 400 gal

6. Result of First Basin Flooding:

☒ Basin Drained within 24 Hrs.-Indicate Time 13:10

— Basin Not Drained within 24 Hrs.

7. Time of Second Basin Flooding: 13:34

Volume of Water Added, Gal 400 gal

8. Result of Second Basin Flooding:

☒ Basin Drained within 24 Hrs.-Indicate Time 17:45

— Basin Not Drained within 24 Hrs.

9. I hereby certify that the information furnished on Form 3g of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator

Christine E. Anderson

Date: July 27, 2000

Signature of Professional Engineer

Albert J. Phillips

License # 32509

Albert J. Phillips, P.E.



HILL ENVIRONMENTAL GROUP, INC.

STANDARD FORM 3g

COUNTY/MUNICIPALITY Mercer County, Hopewell Township

Form 3g. Basin Flooding Test Data

1. Test Number TP-2 Reference Soil Log PP-2 Date Tested July 27, 2000

2. Depth of Pit, ft. 3.0 feet

3. Area of Pit, ft² 65 sf

4. Description of Rock Substratum Within Test Zone: _____

Type of Rock Fractured shale

Name of Formation _____

Average Fracture Spacing 3"

Type of Fractures (Check Appropriate Category):

— Open (Wide), Clean-Width of Openings, mm

☒ Open (Wide), Infilled with Fines-Width of Openings, mm 0.5-1.0

— Tight (Closed)

Orientation of Fractures:

☒ Horizontal (Parallel to Pit Bottom) Or Nearly So

— Inclined

— Vertical (Parallel to Sides of Pit) Or Nearly So



Hardness of Rock:

— Rippable with Hand Tools

X Not Rippable with Hand Tools, Rippable by Machine

— Not Rippable by Machine, Explosives Used/Not Used

5. Time of First Basin Flooding 11:25

Volume of Water Added, Gal 400 gal

6. Result of First Basin Flooding:

X Basin Drained within 24 Hrs.-Indicate Time 13:15

— Basin Not Drained within 24 Hrs.

7. Time of Second Basin Flooding: 13:37

Volume of Water Added, Gal 400 gal

8. Result of Second Basin Flooding:

XX Basin Drained within 24 Hrs.-Indicate Time 16:30

— Basin Not Drained within 24 Hrs.

9. I hereby certify that the information furnished on Form 3g of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator Christine Z. Anderson

Date: July 27, 2000

Signature of Professional Engineer Albert J. Phillips

License # 32509

Albert J. Phillips, P.E.



HILL ENVIRONMENTAL GROUP, INC.

STANDARD FORM 3g

COUNTY/MUNICIPALITY Mercer County, Hopewell Township

Form 3g. Basin Flooding Test Data

1. Test Number TP-3 Reference Soil Log PP-4 Date Tested July 27, 2000

2. Depth of Pit, ft. 8.5 feet

3. Area of Pit, ft² 55 sf

4. Description of Rock Substratum Within Test Zone: _____

Type of Rock Fractured shale

Name of Formation _____

Average Fracture Spacing 3"

Type of Fractures (Check Appropriate Category):

— Open (Wide), Clean-Width of Openings, mm

— Open (Wide), Infilled with Fines-Width of Openings, mm

X Tight (Closed)

Orientation of Fractures:

X Horizontal (Parallel to Pit Bottom) Or Nearly So

— Inclined

— Vertical (Parallel to Sides of Pit) Or Nearly So



Hardness of Rock:

— Rippable with Hand Tools

☒ Not Rippable with Hand Tools, Rippable by Machine

— Not Rippable by Machine, Explosives Used/Not Used

5. Time of First Basin Flooding 12:13

Volume of Water Added, Gal 400 gal

6. Result of First Basin Flooding:

— Basin Drained within 24 Hrs.-Indicate Time 13:15

☒ Basin Not Drained within 24 Hrs.

7. Time of Second Basin Flooding: no 2nd test

Volume of Water Added, Gal _____

8. Result of Second Basin Flooding: N/A

— Basin Drained within 24 Hrs.-Indicate Time _____

— Basin Not Drained within 24 Hrs.

9. I hereby certify that the information furnished on Form 3g of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator

Christine E. Anderson

Date: July 27, 2000

Signature of Professional Engineer

Albert J. Phillips

License # 32509

Albert J. Phillips, P.E.



HILL ENVIRONMENTAL GROUP, INC.

STANDARD FORM 3g

COUNTY/MUNICIPALITY Mercer County, Hopewell Township

Form 3g. Basin Flooding Test Data

1. Test Number TP-4 Reference Soil Log PP-4 Date Tested July 27, 2000

2. Depth of Pit, ft. 4.5 feet

3. Area of Pit, ft² 60 sf

4. Description of Rock Substratum Within Test Zone: _____

Type of Rock Fractured shale

Name of Formation _____

Average Fracture Spacing 1"

Type of Fractures (Check Appropriate Category):

☒ Open (Wide), Clean-Width of Openings, mm 3.0

☐ Open (Wide), Infilled with Fines-Width of Openings, mm

☐ Tight (Closed)

Orientation of Fractures:

☒ Horizontal (Parallel to Pit Bottom) Or Nearly So

☐ Inclined

☐ Vertical (Parallel to Sides of Pit) Or Nearly So



Hardness of Rock:

- ☒ Rippable with Hand Tools
- ☐ Not Rippable with Hand Tools, Rippable by Machine
- ☐ Not Rippable by Machine, Explosives Used/Not Used

5. Time of First Basin Flooding 14:12
Volume of Water Added, Gal 400 gal

6. Result of First Basin Flooding:
☒ Basin Drained within 24 Hrs.-Indicate Time 14:28
☐ Basin Not Drained within 24 Hrs.

7. Time of Second Basin Flooding: 17:30
Volume of Water Added, Gal 400 gal

8. Result of Second Basin Flooding:
☒ Basin Drained within 24 Hrs.-Indicate Time 17:50
☐ Basin Not Drained within 24 Hrs.

9. I hereby certify that the information furnished on Form 3g of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator Christine Z. Unkenmuhl Date: July 27, 2000

Signature of Professional Engineer Albert J. Phillips License # 32509
Albert J. Phillips, P.E.



HILL ENVIRONMENTAL GROUP, INC.

Form 4. General Design Data

1. Volume of Sanitary Sewage, gal. 7000 sf storage, 1000 sf office Use 350 gpd minimum

 Residential: No. of Dwelling Units Total No. of Bedrooms

XX Commercial/Institutional - Indicate type of establishment and show method of calculation. If estimate is based on water meter data, indicate source of data, frequency of readings, average daily flow, and maximum recorded daily reading not available

2. Alterations or Repairs

a) Reason for Alteration or Repair (Check appropriate categories):

 Expansion or Change in Use

 Upgrade Existing Facilities

 Correct Malfunctioning System

 Other—Specify

b) Describe Nature of Alteration or Repairs:

3. System Components:

a) Grease Trap Capacity, gals

Show Calculation Used:

b) Septic Tank Capacities, gals: 1000 First (Single) Compartment 2/3 volume

1/3 volume Second Compartment N/A Third Compartment

c) Effluent Distribution

Method: Gravity Flow XXX Gravity Dosing

 Pressure Dosing

Dosing Device: XXX Pump Siphon

d) Dosing Tank Capacities, gals: Total Capacity 450 gal + Dose Volume 88 gallons

Reserve Capacity 350 gallons = 1 days flow

e) Laterals: Number 5 Total; Length 28' Pipe; Size 4"; Spacing 3' oc

f) Connecting Pipe: Size 2" Length 20'+

g) Manifold: Size N/A Length N/A

h) Disposal Field: Type of Installation Mounded soil replacement/fill enclosed

Design Permeability (Percolation Rate) > 2" / hr

Trenches: Width Total Length Bed: Area 576 sf

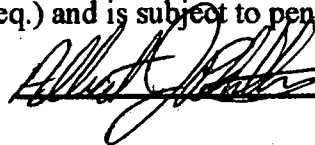


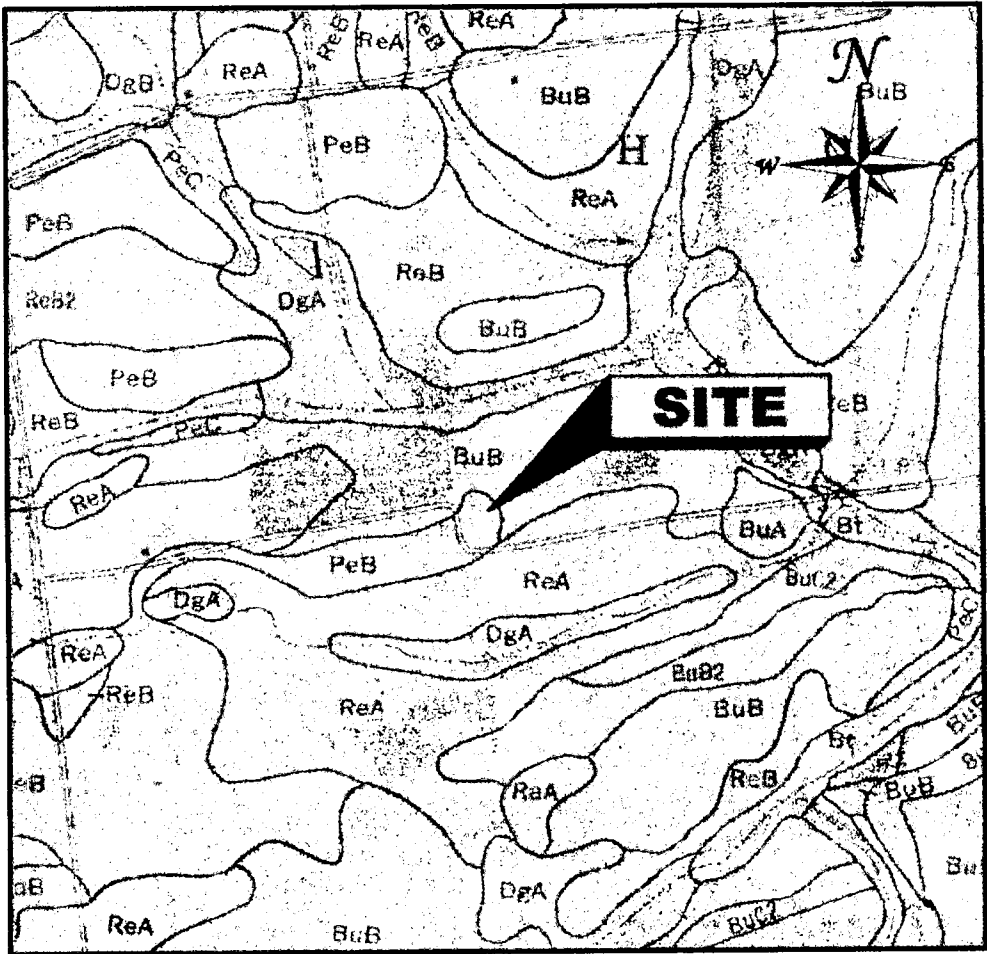
i) Seepage Pits: Design Percolation Rate

Number of Pits Total Percolating Area Provided N/AXXX General Plan of System Showing Location of All System ComponentsX-Sections of Each System Component Including Grease Trap, Septic Tank, Dosing Tank, Disposal Field, Seepage Pits and Interceptor Drains XXXPump Performance Curve XXXOther—Specify XXX Details

5. I hereby certify that the information furnished on Form 4 of this application (and attachments thereto) is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

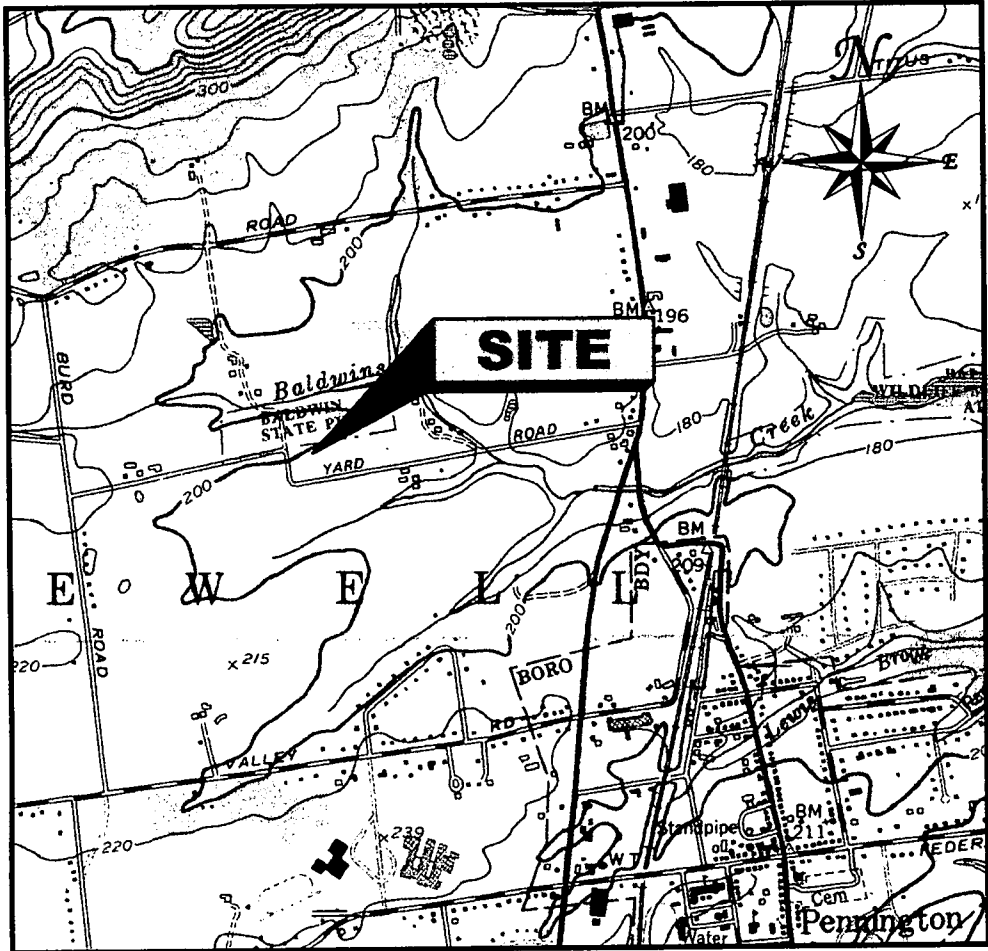
Signature of Professional Engineer

Date August 15, 2000Typed name of Engineer Albert J. Phillips, P.E. NJPE#32509



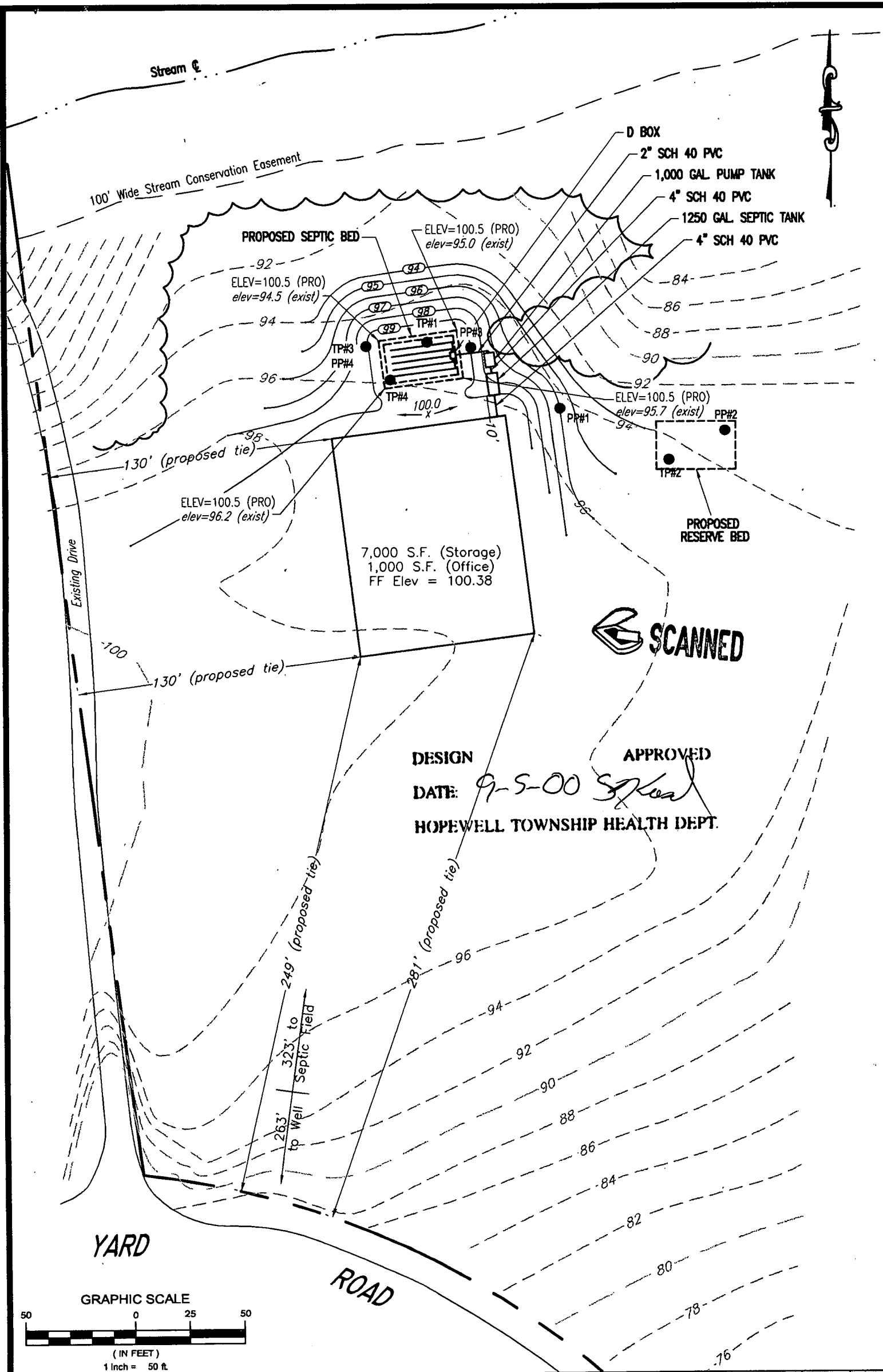
MERCER COUNTY SOIL SURVEY MAP:

Sheets #8; Scale 1"=1000'



U.S.G.S. QUADRANGLE MAP:

Pennington Quad; SCALE 1"=1200'



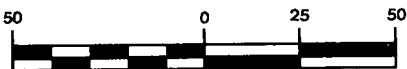
DESIGN

DATE: 9-5-00

HOPEWELL TOWNSHIP HEALTH DEPT.

APPROVED

GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.

HILL
ENVIRONMENTAL GROUP, INC.
19 Brookside Avenue
Pennington, NJ 08534
Tel. (609) 730-1205
Fax. (609) 730-1222
www.hillenvironmentalgroup.com

Albert J. Phillips
ALBERT J. PHILLIPS, P.E.
New Jersey Professional Engineer License No. 32509

DISPOSAL SYSTEM DESIGN
for
HARBAT FARMS
Situate in
Lot 28 Block 49
Hopewell Township, Mercer County, New Jersey

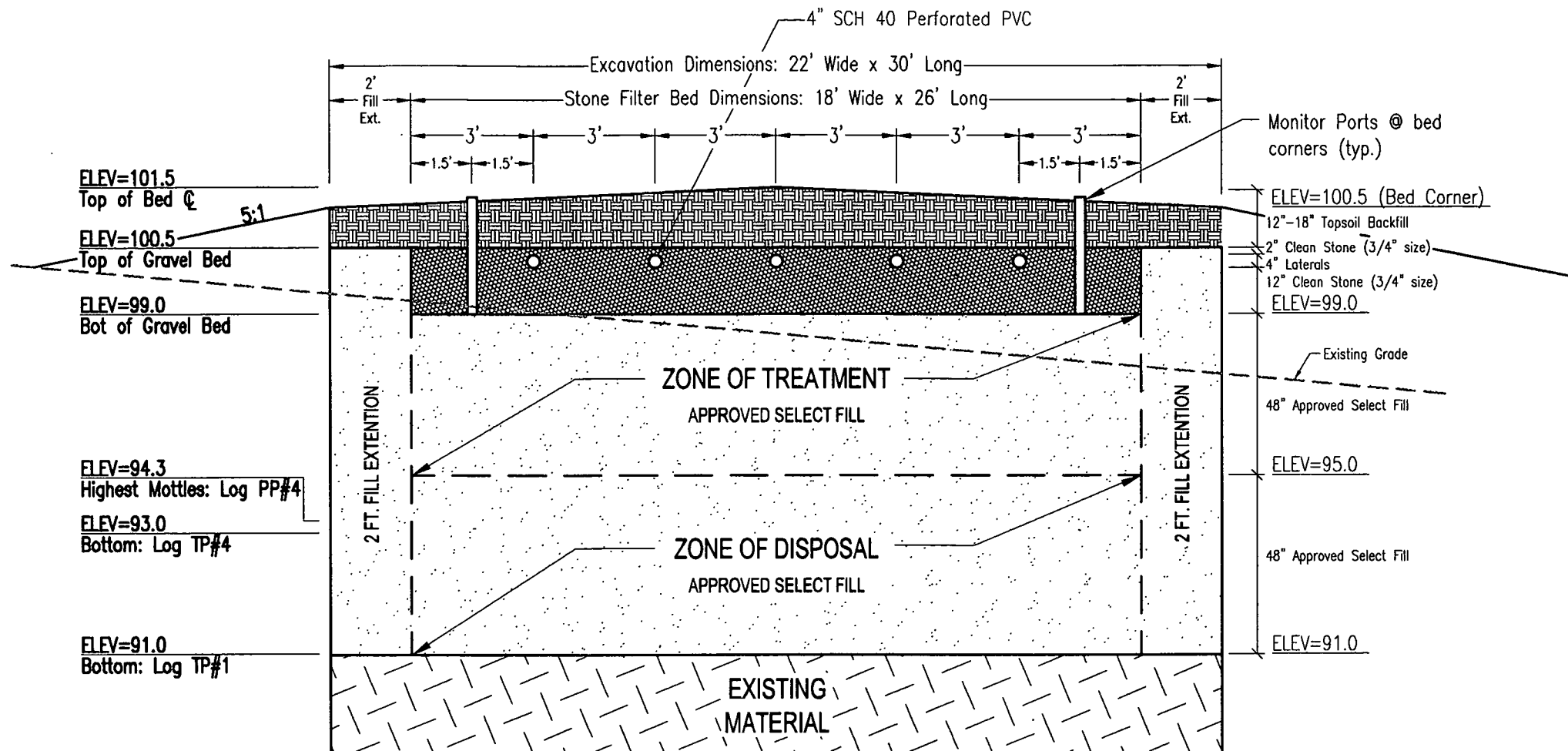
Project No.	253-01-02	Drawing No.	SEPTIC
Designed	AJP	Scale	AS SHOWN
Drawn	GPF	Date	08/11/00
Reviewed	AJP	By	2 OF 8

DISPOSAL BED SECTIONAL VIEW
for

HARBAT FARMS
Citrusdale

Lot 28 Block 49
Hopewell Township, Mercer County, New Jersey

Project No.	Project Name	Project Description	Project Date
253-01-02	SEPTEMBER	As per Top. notes	1/2/2000
	Scale	Horizontal	Vertical
	AS SHOWN	0.81/100	3 of 8
	AP	AP	AP



NOTE:

1. The Hopewell Township Health Dept. requires a Soil Permeability Class Rating Test on the stockpiled select fill. The contractor shall notify the Design Engineer 24 hours in advance of the said stockpiling in order to obtain samples of the fill for testing.

2. The select fill shall not be emplaced until a passing soil analysis has been obtained.

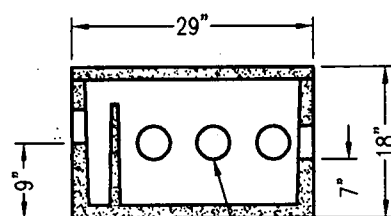
3. The distribution network shall not be constructed until a passing percolation test or tube permeameter test has been performed on the emplaced select fill, to insure proper compaction. The contractor shall notify the Design Engineer 24 hours in advance in order to perform said test.

Assume in-place select fill @ 3-15 MPI

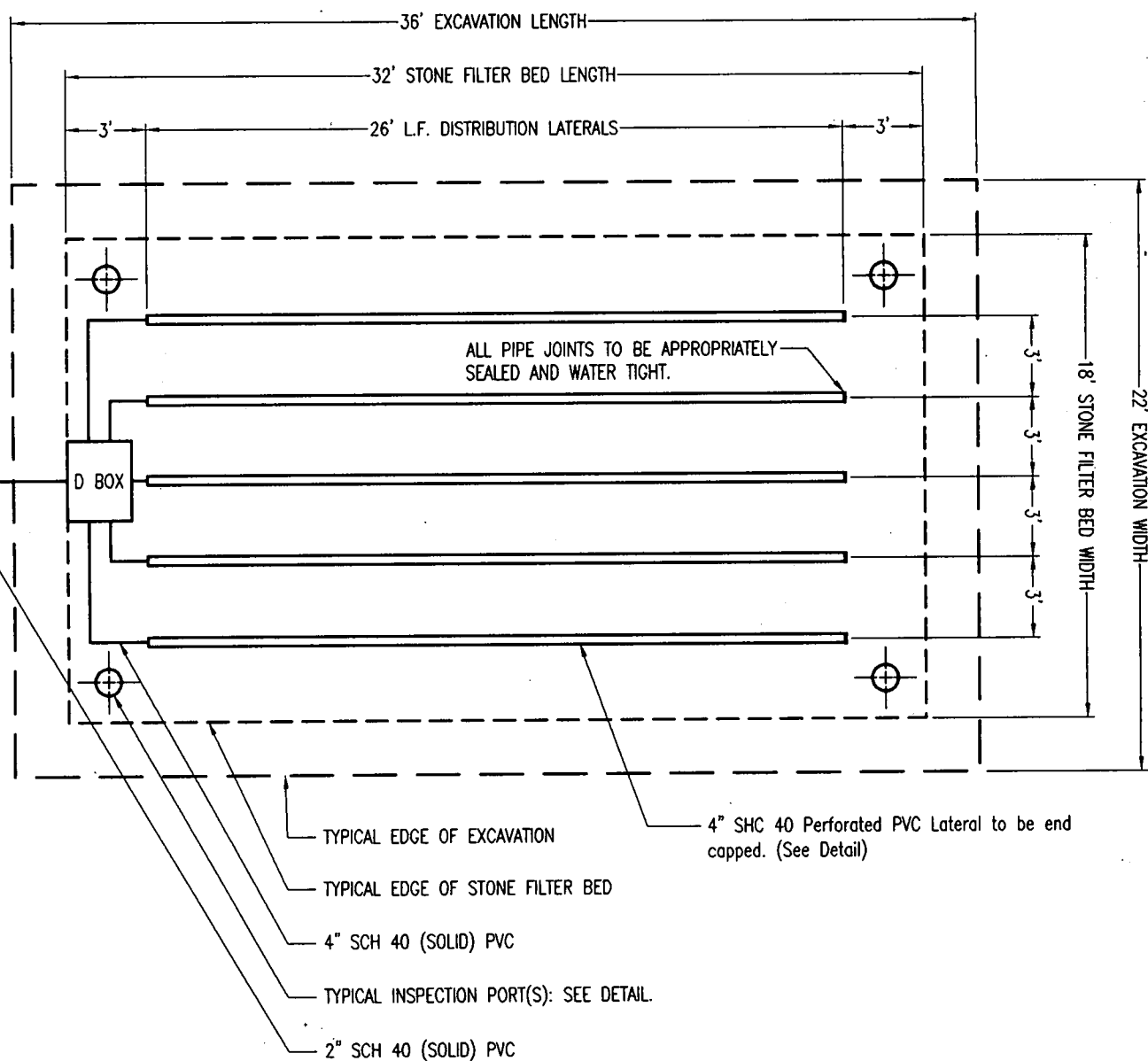
*"MSR" type bed requires a 2 Ft. fill extension

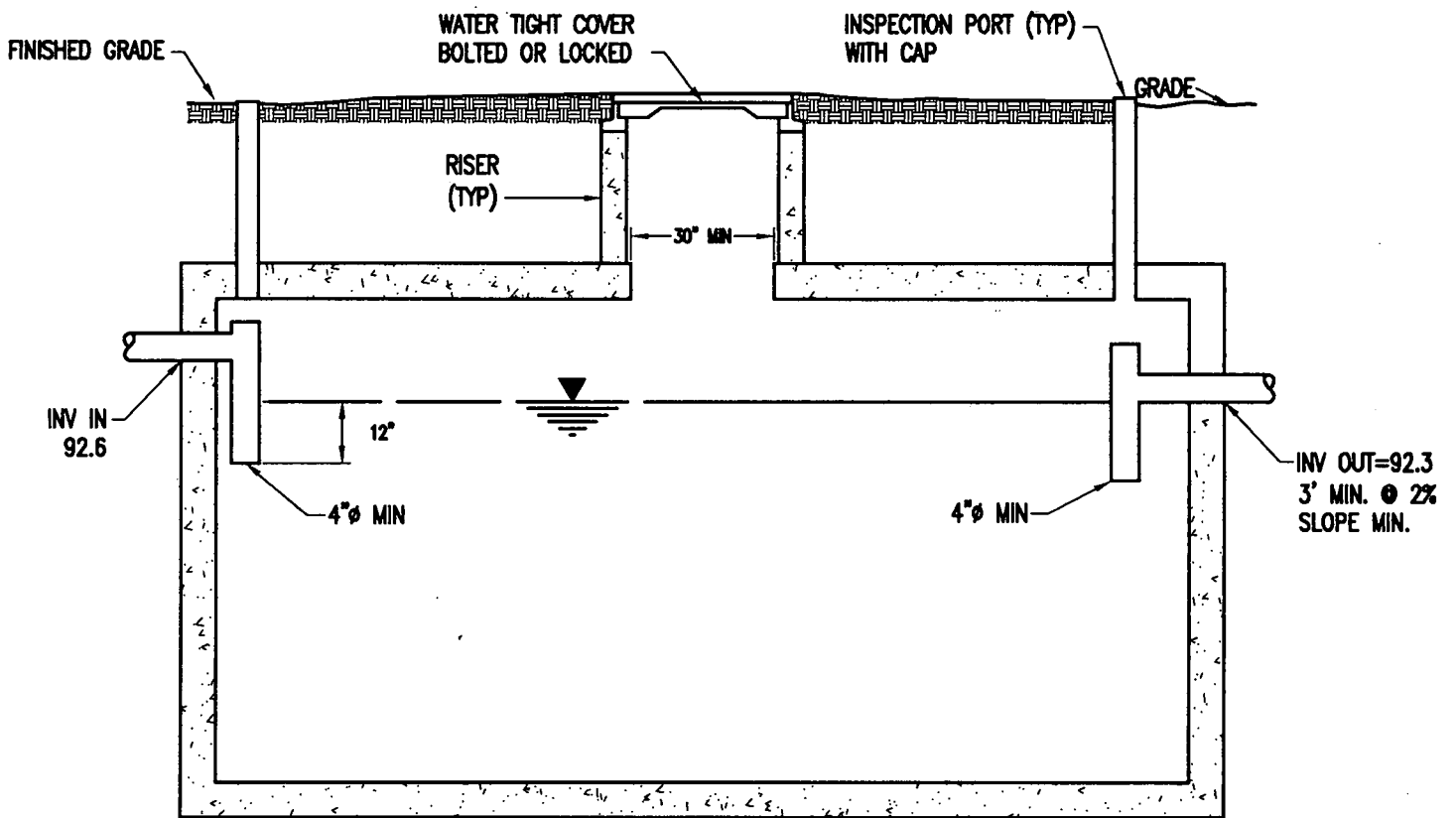
Excavate total btm. area of bed: 22'W x 30'L (660 Sq. Ft.)

Construct stone filter bed: 18'W x 26'L (=468 Sq. Ft.)



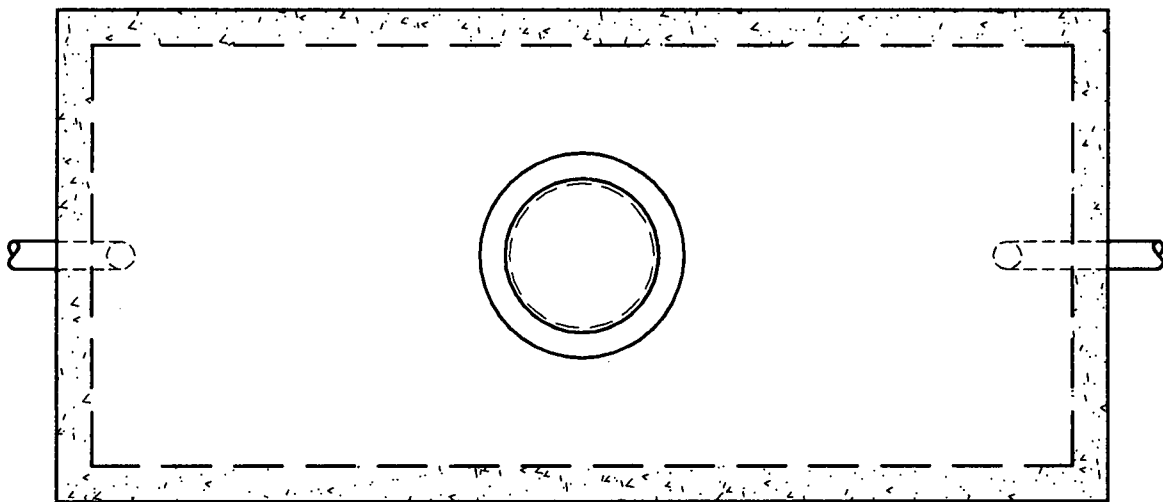
-4th PVC
GASKETS
(TYP)





ELEVATION

VOL=TOTAL LIQUID CAPACITY=1250 Gallons



PLAN

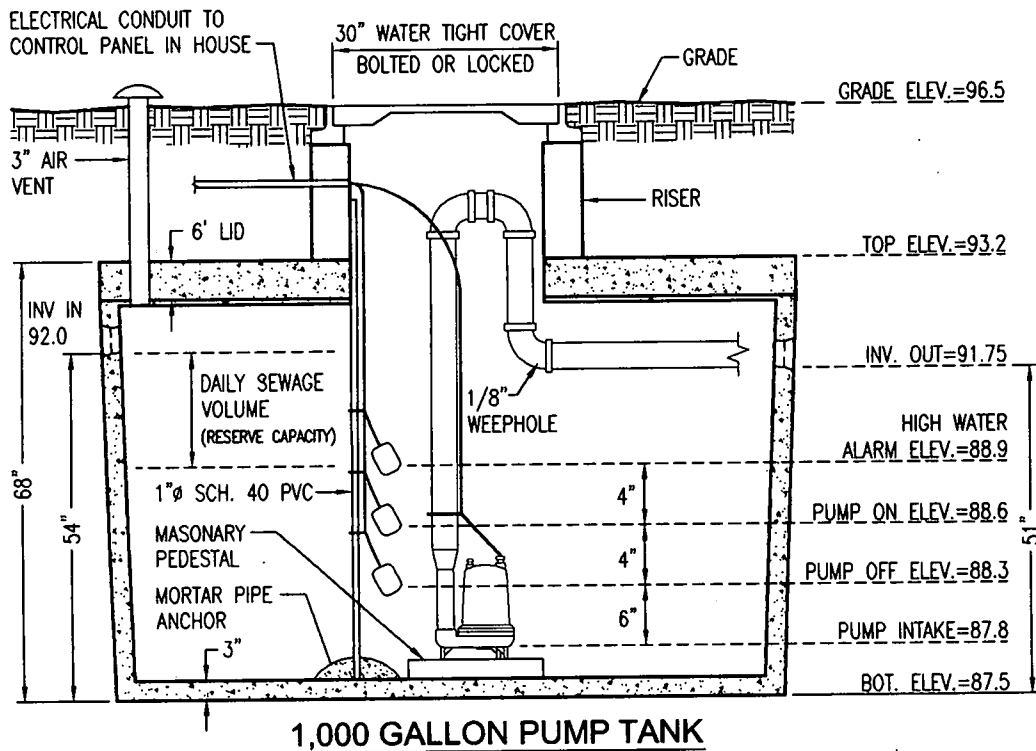
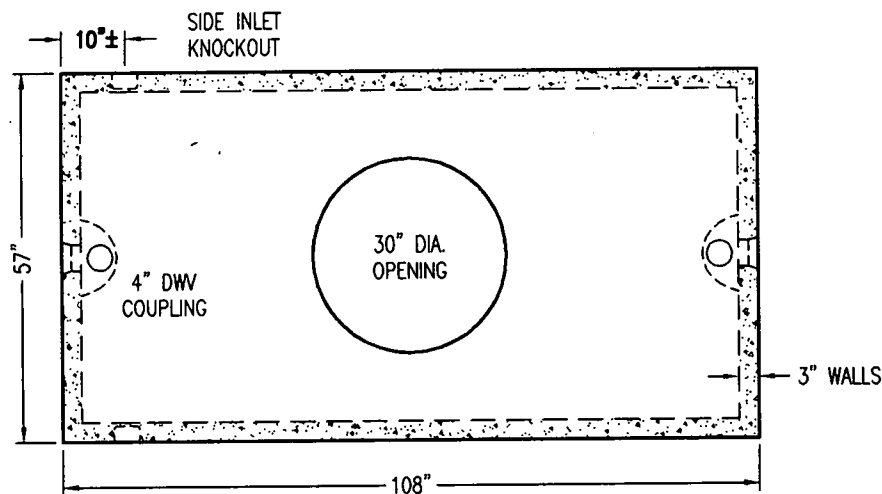
HILL
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www.hillenvironmentalgroup.com

Albert J. Phillips
ALBERT J. PHILLIPS, P.E.
New Jersey Professional Engineer License No. 32509

1250 GALLON SEPTIC TANK
for
HARBAT FARMS
Situate In
Lot 28 Block 49
Hopewell Township, Mercer County, New Jersey

Project No.	253-01-02	Drawing No.	SEPTIC
Designed	AJP	Scale	AS SHOWN
Drawn	GPF	Date	08/11/00
1	02/20/01	As per Twp. Review	Revised
Rev	Date	Description	By
			AJP

5 OF 8



Notes:

1. The pump-on and pump-off switches shall be set at appropriate levels to provide a dose volume as required in N.J.A.C. 7:9A-9.2(a)2. The pump-off switch shall be set six inches above the pump intake.
2. A high-water alarm switch shall be set four inches above the pump-on switch and shall activate visible and audible alarms which can be readily seen and heard by occupants within the building served. The high-water alarm switch shall meet the same requirements prescribed for pump-control switches in (1.) above. The Alarm and its switch shall not be on the same electrical circuit as the pump and its switches.
3. All electrical contacts and relays shall be located outside of the dosing tank and a gas-tight seal shall be provided where electrical conduits enter the tank.
4. All electrical service lines from the home or facility to the pump control panel shall be protected by electrical conduit.

- * QUICK DISCONNECT COUPLINGS TO BE PROVIDED.
- * CONCRETE STRENGTH-4,000 P.S.I. @ 28 DAYS
- * STEEL REINFORCEMENT-CONFORMS TO ASTM A615- A185-5
- * JOINT - SEALED WITH A FLEXIBLE BUTYL SEALANT OR EQUIVALENT/MEETS AASHTO M-198B
- * DESIGN-ABOVE TANKS ARE DESIGNED FOR 30% IMPACT AND 30lbs. FT2 EQUIVALENT FLUID PRESUURE; AS MANUFACTURED NY "MODERN CONCRETE SEPTIC TANK COMPANY" OR EQUIVALENT.

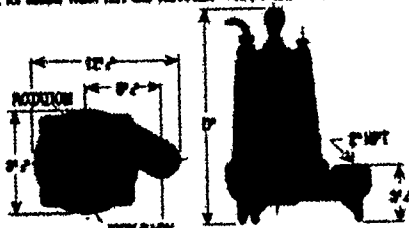
MODEL

3885



1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

(All directions are in inches. Do not use for construction purposes.)
 D² = 1', 2', 3', and 1 HP = 1 HP
 POINTS FOR EACH: WEST 1/2 = 1/2, 1/2, 1/2, 1/2



ENVIRONMENTAL MONITORING SYSTEMS

Efficient operator systems allow ease of ordering and installation. A single ordering number specifies a complete system designed for most residential and commercial setups and different access configurations.



Postings include:
 Subordinate Officer Pay: \$18,000
 12L or 12M/12N, 12M, 12M/12N, 12P
 Additional Law Enforcement
 A-6 (12P), A-6 (12M)
 State A-6/12P, State A-6/12N
 Check: \$100
 Order No.: 000001 N, 000001E,
 000001M, 000001N,
 000001P, 000001Q

APPLICATIONS

Specifically designed for the following uses:

- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

SPECIFICATIONS

1000

- Solids handling capabilities: 1/4" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 128 GPM.
- Total heads: up to 123 feet TDH.
- Mechanical seal: silicon carbide-rotary seal/silicon carbide-stationary seal, 300 series stainless steel metal parts, BUNA-N elastomers.
- Temperature: 104 F (40 C) continuous 140 F (60 C) intermittent.
- Fasteners: 300 series stainless steel.
- Capable of running dry without damage to components.

Index

Starch index

- $\frac{1}{2}$ HP, 115 V, 200 V, 230 V, 60 Hz, 1750 RPM; $\frac{1}{2}$ HP, 115 V, 60 Hz, 3500 RPM; $\frac{1}{2}$ HP - $1\frac{1}{2}$ HP, 230 V, 60 Hz, 3500 RPM.
 - Built-in overload with automatic reset.
 - Class B insulation.
- Three phase:**
- $\frac{1}{2}$ HP - $1\frac{1}{2}$ HP 200/230V, 460 V, 60 Hz, 3500 RPM.
 - Class B insulation.

- Overload protection must be provided in starter unit.
 - Shaft: threaded, 400 series stainless steel.
 - Bearings: ball bearings upper and lower.
 - Power cord: 20 foot standard length (optional lengths available).
- Single phase:**
- $\frac{1}{2}$ and $1\frac{1}{2}$ HP - 16/3 SJTO with 115 V or 230 V three prong plug.
 - $\frac{3}{4}$ -1 $\frac{1}{2}$ HP - 14/3 STO with bare leads.
- Three phase:**
- $\frac{1}{2}$ -1 $\frac{1}{2}$ HP - 14/4 STO with bare leads. On CSA listed models - 20 foot length SJTW and STW are standard.

FEATURES

- **Impeller:** Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for

smooth operation. Silicon bronze impeller available as an option.

- **Casting:** Cast iron volute type for maximum efficiency. 2" NPT discharge adaptable for slide rail systems.
- **Mechanical Seal:** SILICON CARBIDE VS. SILICON CARBIDE sealing faces. Stainless steel metal parts, Buna-N elastomers.
- **Shaft:** Corrosion-resistant stainless steel. Threaded design. Locknut on three phase models to guard against component damage on accidental reverse rotation.
- **Motor:** Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.

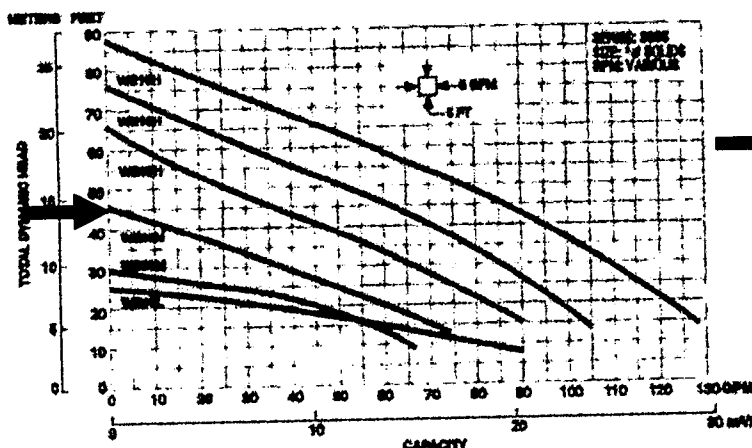
■ Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits.

can be operated continuously without damage.

- **Bearings:** Upper and lower heavy duty ball bearing construction.
- **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking.
- **O-ring:** Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS

-  **Canadian Standards Association**
File #R229645
-  **Underwriters Laboratories**
File #408214
-  **EIL Limited (Incorporated in Hong Kong)**
#1000131400/770 #R229645
CLASS 1 AND 2 SMC 2.400
CLASS 3 SMC 1.400 2
C/O TOSHIBA LOGISTICS, INC.
OYAMA, MIYAGI 984
JAPAN

[illegible]

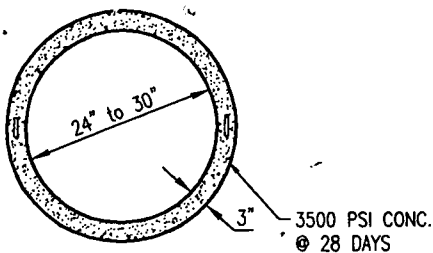
HILL 
ENVIRONMENTAL GROUP, INC.
19 Brookside Avenue Tel. (609) 730-1200
Pennington, NJ 08834 Fax. (609) 730-1222
www.hillenvironmentalgroup.com


ALBERT J. PHILLIPS, P.E.
New Jersey Professional Engineer License No. 32508

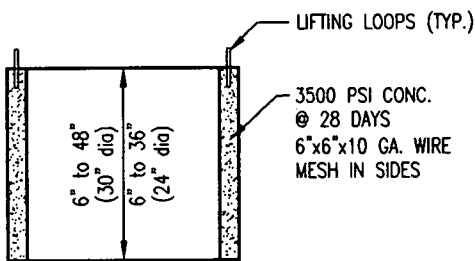
PUMP DETAILS for HARBAT FARMS

Situate In
Lot 28 Block 49
Hopewell Township, Mercer County, New Jersey

				Project No.	Drawing No.
				253-01-02	SEPTIC
				Designed	Scale
				AJP	AS SHOWN
				Drawn	Date
				GPF	8/8/1/00
1	9/25/00		As per Twp. review	Reviewed	MD
Drawn	Checked		Description	AJP	7 OF 9



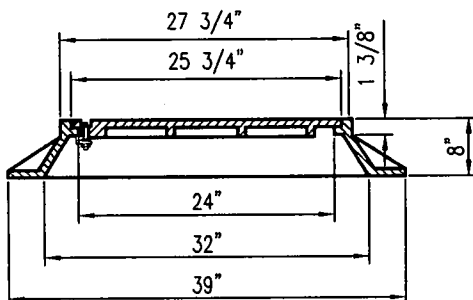
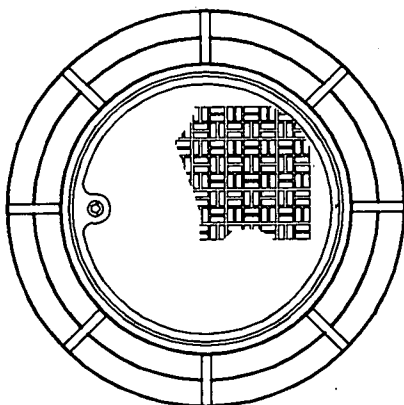
PLAN VIEW



SECTION VIEW

CONCRETE EXTENSION

NOT TO SCALE



Specifications:
Specifications are from Campbell Foundry Company, Model No.1487 Heavy Duty Manhole Frame & Locking Cover or approved equal.

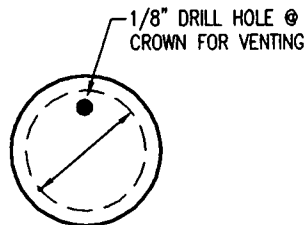
MANHOLE FRAME DETAIL

NOT TO SCALE

FILTER FABRIC SPECIFICATIONS

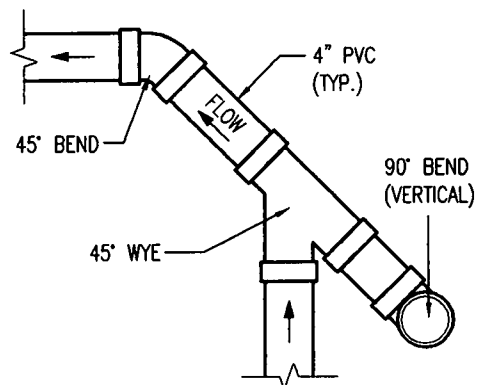
TERRATEX SD OR EQUAL
GRAB TENSILE STRENGTH 125 LBS.
MULLEN BURST STRENGTH 275 LBS./SQ. IN.
ELONGATION 80 %
WATER PERMEABILITY COEFFICIENT . . . -2 CM/SEC.

THE FABRIC IS TO BE LAPPED OVER THE TOP OF STONE A MIN. OF 6"



END CAP DETAIL

NOT TO SCALE



CLEANOUT DETAIL

NOT TO SCALE

Disposal System Notes

- 1. Prior to the installation of fill material, the disposal field excavation shall be performed in accordance with N.J.A.C. 7:9a10.3(c) 1 through 5.
- 2. Work should be scheduled so that the bottom and sidewalls of the excavation will not be exposed to rainfall or windblown silt between time of excavation and time of final inspection and grading.
- 3. Any loose soil or debris which is washed into or deposited within the excavation shall be removed prior to the construction of the distribution network.
- 4. Any smeared or compacted soil surfaces within the disposal field excavation shall be removed to expose a fresh soil surface.
- 5. Excavations in soils other than sands or loamy sands shall not be continued when soil moisture content is above the lower plastic limit. This means when a small lump of soil, taken from the depth of the proposed excavation, can be rolled out with the fingers to form a wire or rod one-eight of an inch in thickness and does not crumble when handled.
- 6. Clayey soils encountered in the bottom of the excavation shall be removed and replaced with suitable fill.
- 7. The fill material installed in the zone of disposal shall have a textural analysis (composition by weight of size fraction passing through a two millimeter sieve) 70%+ med.-coarse sand, but not less than 90% total sand. The fill material shall also have a percolation rate faster than 15 minutes per inch.
- 8. The suitable fill material installed in the zone of treatment shall have a coarse fragment content less than 15% by volume or less than 25% by weight. It shall also have a textural analysis (composition by weight of size fraction passing the two millimeter sieve). from 70% to 90% med.-coarse sand; 0-25% fine sand; 5% to 10% silt & clay ; min. clay 2%, Fill material shall also have a percolation rate of 3 to 15 min/in. or a permeability rate of 6-20 in/hr.
- 9. All fill material shall be spread and compacted in layers one foot or less in thickness and compacted manually or mechanically, by tamping or rolling, by driving over the filled area in a controlled pattern using tracked or rubber tired vehicles, or by puddling.
- 10. Heavy excavating equipment shall not be operated directly on the exposed bottom of the excavation. If heavy excavating equipment is used to compact the fill material, the first lift shall be one foot in thickness.
- 11. The filter material shall consist of washed gravel or crushed stone, free of fines, dust, ashes or clay. It shall conform in size and gradation to size #24, #3 or #4 of the N.J.D.O.T. standard for coarse aggregates.
- 12. The filter material shall be installed into the disposal system excavation using a backhoe, front end loader or dump truck from the sides.
- 13. Construction of the distribution network shall be in accordance with 7:9a-10.3(d).
- 14. Pressure dosing networks shall be constructed of PVC Plastic (ASTM D-2662), schedule 40.
- 15. Filter material is to be covered with drainage fabric as the laying of distribution lines progresses. Drainage fabric shall be overlapped a minimum of 6".
- 16. Filter fabric shall have a grab tensile strength of 125 lbs., mullen burst strength of 275 lbs., elongation 80% & permeability coefficient of 0.2 cm/sec. Filter fabric shall be Terratex sd or equal.
- 17. Construction of the connecting pipe or delivery pipe shall be in accordance with 7:9a-9.3.
- 18. All changes of direction in the soil pipe and connecting pipe shall employ max. 45° fittings and shall include cleanouts.
- 19. Oil pipe and connecting pipe shall be placed on a stabilized base of quarry blend stone extending to virgin ground.
- 20. A sample of the filter material shall be tested prior to delivery to site. After placement, filter material shall be tested in-site and must pass the required perm rate.

- 21. PVC connecting pipes will meet ASTM standard D-1785-91 - schedule 40, SDR-21 or SDR-26.
- 22. The building sewer shall be designed and constructed in accordance with the provisions of the state uniform construction code, N.J.A.C. 5:23, adopted pursuant to the uniform construction code act, N.J.S.A. 52:27d119 et seq.
- 23. Septic tanks shall be precast concrete tanks constructed of concrete conforming to ACI318-16-4.5.1 and 318-16-4.5.2. Certification shall be provided by the manufacturer and the certification displayed on the tank.
- 24. Septic tank shall be 1000 gal. dual compartment tank.
- 25. All manhole covers and inspection ports in the septic tank shall have water tight bolted or locked caps set flush with finish grade covered by green fiberglass lids.
- 26. All interior concrete surfaces shall be sealed with two coatings of an approved inert coating to minimize corrosion. Coating shall be applied prior to delivery by the manufacturer.
- 27. Septic tanks shall be fabricated and installed in accordance with 7:9a-8.2.
- 28. A permanent marker shall be placed on grade above the septic tank upon completion of the installation.
- 29. Backfill and final grading shall be carried out in accordance with 7:9a-10.3(f).
- 30. Topsoil shall be lightly compacted by tamping or rolling to prevent settlement and shall be seeded and mulched or sodded immediately upon completion of final grading.
- 31. Backwash from water softeners or other drainage other than sanitary sewage shall not enter the disposal system.
- 32. All soil evaluation procedures relied upon as a basis for the design of the subject individual subsurface sewage disposal system were carried out by or under the direct supervision of a professional engineer and witnessed by the administrative authority.
- 33. Vegetative planting in the disposal area shall be limited to grass unless otherwise specified by the administrative authority.
- 34. An annual inspection of the system shall begin three (3) years after installation or pump out of the septic tank.
- 35. The disposal system contractor is responsible for confirmation that all materials utilized in the construction of the disposal system are in accordance with N.J.A.C. 7:9a.
- 36. When placement of the disposal field is proposed in an area of disturbed ground as defined at 7:9a - 5.10, an acceptable state of compaction of the soil or fill material shall be verified by laboratory tests, and the design engineer shall certify a minimum compaction of 90 percent of the standard procter density.
- 37. All regraded areas shall comply with 7:9a-10.3.
- 38. Storm sewers within 100 ft. of the disposal system shall be constructed with watertight joints.
- 39. There shall be no existing or proposed wells within 100 ft. of the proposed disposal field.
- 40. THIS PLAN IS FOR BUILDING PERMIT ONLY.

General Notes

- 1. The Health Department shall receive 48 hours notification prior to the start of any construction on the system.
- 2. Once the excavation of bed is complete a bottom of excavation inspection shall be performed by the Design Engineer and approved prior to the placement of the select fill.
- 3. After suitable fill is placed and compacted a min. of 1 permeability test shall be performed and approved by the Design Engineer, and if required the test shall be witnessed by the Health Department prior to the placement of stone.
- 4. The results of the select fill analysis shall be forwarded to the Health Department (see note No.8 in the Disposal System notes)
- 5. All manholes covers and inspection port caps in the septic tank shall have water tight bolted or locked caps.
- 6. All interior concrete surfaces shall be sealed with 2 coatings of an approved inert coating to minimize corrosion, coating shall be applied prior to delivery by the manufacturer.

- 7. This plan is for building permit only.
- 8. No existing/proposed wells or disposal systems within 100 ft. of the proposed disposal field and well.

HILL

ENVIRONMENTAL GROUP, INC.

19 Brookside Avenue
Perth Amboy, NJ 08864

Tel. (609) 730-1205
Fax. (609) 730-1222
www.hillenvironmentalgroup.com



ALBERT J. PHILLIPS, P.E.

New Jersey Professional Engineer License No. 32609

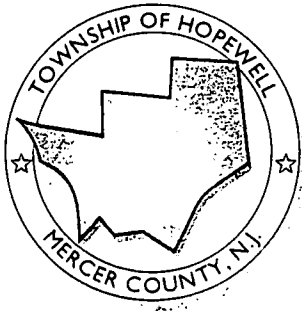
GENERAL DETAILS
for
HARBAT FARMS

Situate In
Lot 28 Block 49
Hopewell Township, Mercer County, New Jersey

Project No.		253-01-02	Drawing No.	SEPTIC
Designed		AJP	Scale	AS SHOWN
Drawn		GPF	Date	08/11/00
Reviewed		AJP	By	8 OF 8
1	8/25/00	As per Twp. Review		
Rev	Date	Description		

Harbat - Owner installed

- ~~Wed~~ Tues
9-5-00 - Bed dug - depth OK - OK to Sand
- 9-7-00 - Sand in upto grade - OK to Store & fire
- 9-11-00 Store & fire Set - need to Clean-up
2' Sand Berm.
- 9-13-00 Sand Berm Fixed OK to Cover
- ? - Pump & Alarm OK - inspection done previously



TOWNSHIP of HOPEWELL

DEPARTMENT of HEALTH

Serving Hopewell Borough and Pennington Borough

201 WASHINGTON CROSSING PENNINGTON ROAD, TITUSVILLE, N.J. 08560

TELEPHONE 609-737-0120 / FAX 609-737-2770

September 15, 2000

Harbat Farms
64 Woosamonsa Road
Pennington, NJ 08534

Re: Block 49 Lot 28

To whom it may concern:

Your application for an onsite subsurface sewage disposal system has been approved with the following conditions:

SEWAGE DISPOSAL PERMITS ARE VALID FOR TWO YEARS FROM DATE OF ISSUE.

1. A copy of this letter must be forwarded to your construction contractor and sewage disposal installer prior to installation of said system.
2. The house location must be staked by a licensed surveyor or professional engineer to assure proper location and elevation as represented on the attached plan.
3. The sewage disposal system must be located and staked prior to installation by a licensed surveyor or professional engineer to guarantee the proper alignment of the system in the area of the soil tests, and to insure it will conform to all site restrictions as represented on the attached design.
4. The required elevation of the sewage disposal system should be verified by the licensed professional engineer or surveyor, the builder and the plumbing contractor as it relates to the foundation height, the point where the sewer line exits the dwelling and the height of the septic tank. If this is a gravity system and the minimum height of the sewer line is not maintained, an ejector system will be required after the septic tank.
5. An onsite conference is required with your installer and a representative from this office prior to installation of any part of this system. This should avoid any problem during the installation which can be costly to all parties concerned.
6. The design engineer must be notified at the beginning of the installation. Field measures must be made for the required as-built design, and grading plan certifications. The as-built must show soil test location, distances to the tank and D-box as measured from two fixed points, also, any changes caused by site conditions, construction changes and installation problems. If this is a raised system, the as-built grading plan must be certified by the engineer that it is as designed, showing all inverts and

contour lines. The as-built will provide a detailed location of the installed system so it can be located once it is covered.

7. No excavating machinery shall be permitted in the excavation during construction. A track-hoe or back-hoe must be used to dig the excavation. Sand must be available at the start of construction to cover the bottom and to protect open fractures etc.

8. All trees within 10 feet of a conventional disposal system or within the area of the extended clay fill and sloped area of a raised disposal/mound system must be removed.

9. All phases of construction of the disposal system must be inspected by the Health Department. It is your responsibility (or your contractors) to notify the Health Department by no later than 9:00 a.m. on every day that construction is underway so inspections can be scheduled. Systems will be dug up if not inspected by this office!

10. A certificate of occupancy will not be issued if the system is not completed and the grades certified. Raised systems must be stabilized. All systems must be seeded or sodded and have established vegetative growth.

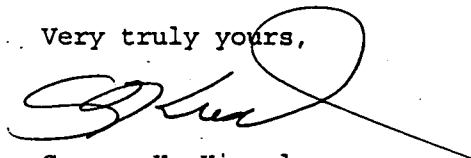
11. All septic tanks must comply with new tank requirements and also be provided with locking manhole access lids to final grade as required by NJDEP 7:9A.

12. All sand and clay fill must be stock piled on site and certified by a licensed laboratory and by the design engineer once in place using a perc test.

13. NJAC7:9A requires a two compartment septic tank wherever a sewer ejector is utilized.

Effective January 1, 1990 the New Jersey Department of Environmental Protection enacted a law requiring the certification and licensing of sewage disposal systems.

Very truly yours,



George K. Kiesel
Environmental Health Coordinator

cc: Albert J. Phillips

HOPEWELL TOWNSHIP HEALTH DEPARTMENT
201 WASHINGTON CROSSING PENNINGTON ROAD
TITUSVILLE, NEW JERSEY 08560
609-737-0120 FAX 609-737-2770

APPLICANT Hart Farms BLOCK 49 LOT 28
LOCATION Yard Road

Sewage Disposal System

Installation approved 1-11-01
Pump and Alarm Approved 1-11-01
Grading Approved 3-19-01
As-Built Approved 2-23-01
Application to Operate System N/A
Sand Certification 2-23-01
Certificate of Compliance 2-23-01

Deed Amendment N/A
(Well or Septic)

Onsite Water Supply

Well Casing Inspection 1-22-01
Pump Installation Report 2-13-01
Well Construction Report 2-13-01
Water Availability Test N/A est 17 gpm
Primary Water Quality
(bacterial, nitrate) 2-2-01
Secondary Water Quality
(Iron, manganese, Arsenic
ph & lead) 2-2-01
Volatile Organics 2-2-01
Gross Alpha Particle 3-19-01

Final Grade Inspection
Casing must extend 12
inches above grade) 3-19-01

This office has performed inspections or received the necessary certification required for issuance of a certificate of occupancy.

Temporary CO

Date 2-23-01
Inspector [Signature]
Bond Posted \$
DATE

Final CO

Date 3-19-01
Inspector [Signature]

* Needs ~~Test~~ ~~Lead~~ + ~~Gross Alpha~~ + ~~Final~~
~~Per [Signature]~~ ~~See [Signature]~~

HILL ENVIRONMENTAL GROUP, INC.

19 BROOKSIDE AVENUE
PENNINGTON, NJ 08534
PHONE-609-737-7700 FAX - 609-730-1222

CERTIFICATE OF COMPLIANCE

County/Municipality of Hopewell Township, Mercer County, New Jersey

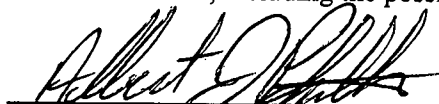
INSTRUCTIONS: Part A is to be completely filled in for all Certifications. Only Part B or Part C will be completed. Part B will be completed if the administrative authority relies upon the certification signed and sealed by a New Jersey licensed professional engineer that the system has been located, constructed, installed or altered in compliance with the requirements of N.J.A.C. 7:9A-1 and the Application to Construct/Alter/Repair an Individual Subsurface Sewage Disposal System which was approved by the administrative authority. Part C will be completed if the administrative authority performs the certification.

Part A-General Information

- Permitted Activities (Check applicable categories):
Permit Number _____
☒ New Construction ☐ Alteration/No Expansion or Change of Use
☐ Alteration/Expansion or Change of Use ☐ Alteration/Malfunctioning System
☐ Deviation from Standards ☐ Repairs to Existing System
- Location of Project: Municipality Hopewell Township Lot 28 Block 49 Street
Address Yard Road, Pennington, NJ 08534
- Name and Present Address of Applicant: Harbat Farms, % Hill Environmental Group, Inc. 19 Brookside Avenue, Pennington, NJ 08534 Applicant's Phone Number 609-737-7700

Part B- Professional Engineers Certification

I certify under penalty of law that the subsurface sewage disposal system identified in Part A has been located, constructed, installed or altered in compliance with the requirements of N.J.A.C. 7:9A-1 and the Application to Construct/Alter/Repair an Individual Subsurface Sewage Disposal System which was approved by the administrative authority. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.


Albert J. Phillips, P.E. #32509

SEAL

Date: 1/12/2001

Part C-Certification by Administrative Authority

I certify under penalty of law that the subsurface sewage disposal system identified in Part A has been located, constructed, installed or altered in compliance with the requirements of N.J.A.C. 7:9A-1 and the Application to Construct/Alter/Repair an Individual Subsurface Sewage Disposal System which was approved by the administrative authority. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Authorized Signature

Type of License Held

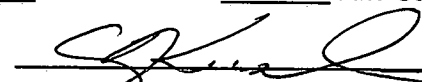
Name (Typed or Printed)

License Number

Date

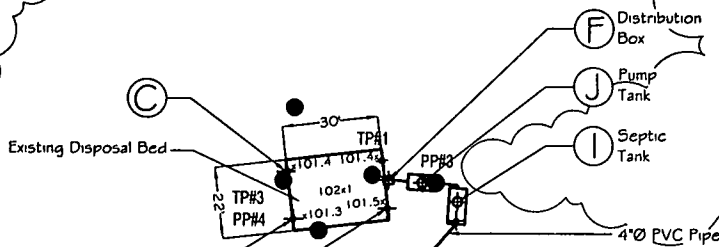
For Agency Use Only

Date Received: 2/23/01 Form Determined To Be: ☒ Complete ☐ Incomplete
Date Returned _____ Date Received _____ Date Certification Approved: 2-23-01

Authorized Signature: 

BALDWIN'S CREEK

100ft. Wide Stream Conservation Easement



Typical Inspection Ports

Fin. Flr. = 100.59

Office/Storage
Structure
(1000 SF Office)
(7000 SF Storage)Building
CornerBuilding
CornerLot 28
Block 49
53.866 Acres ±AS - BUILT DESIGN APPROVED
DATE: 2-23-01 *SK*
HOPEWELL TOWNSHIP HEALTH DEPT.

DISPOSAL SYSTEM ASBUILT TIE DISTANCES:

"A" to "C" = 71.6' "B" to "C" = 48.0'
 "A" to "D" = 63.6' "B" to "D" = 35.8'
 "A" to "E" = 38.8' "B" to "E" = 58.9'
 "A" to "F" = 44.3' "B" to "F" = 64.5'
 "A" to "I" = 27.0' "B" to "I" = 78.8'
 "A" to "J" = 37.2' "B" to "J" = 72.5'

NOTE: Tube Permeameter Tests performed on the
in-place & compacted Select Fill material, resulted
IN:REPLICATE "A" K=18.47
REPLICATE "B" K=17.89

NOTE: This plan is for Municipal Health Department approval only.

Bryce M. Rittenhouse Professional Engineer & Land Surveyor #13453

Frank J. Falcone Professional Land Surveyor #32112 & Professional Planner #3760

PJE Princeton Junction Engineering, P.C.
 Professional Engineers, Land Surveyors and Planners
 P.O. Box 610 - 53 North Post Road
 Princeton Junction, New Jersey 08550
 Telephone: 609.799.1906 Facsimile: 609.799.1524 Email: PJEPC@pjepe.com

Disposal System Asbuilt Plan
 of Lot-28, Block-49 for
Harbat Farms
 Hopewell Township • Mercer County • New Jersey

Bryce M. Rittenhouse* PE#PLS No.13453
 D. Geoffrey Brown PE#PLS No.24327
 Wesley J. Lane* PLS No.30747
 Frank J. Falcone PLS No.32112
 Peter R. Eshewsky* PLS No.34001
 Ted W. Pivovarnick PLS No.35868
 Martin D. Katz PLS No.36249

* NJ and PA Licensed.

Bryce M. Rittenhouse
 Bryce M. Rittenhouse: PE #13453

01/10/01
Date

Frank J. Falcone: PLS #32112 & PP #3760

01/10/01
Date

Date: 01/10/01

Scale: 1"=60'

Drawn: JRM

Check: FJF/BMR

Revisions:

Job: 10000004
 Draw: Harbat-Farms.dwg
 User: PLS
 User: 507 258

PRINCETON JUNCTION ENGINEERING COMPANY
53 NORTH POST ROAD
P.O. BOX 610
PRINCETON JUNCTION, NEW JERSEY 08550
ph. (609) 799-1906 fax. (609) 799-1524

Client: Hill Environmental Group

Form 3b - Tube Permeameter Test Data:

Municipality Hopewell Township Lot 28 Block 49 - Harbat Property

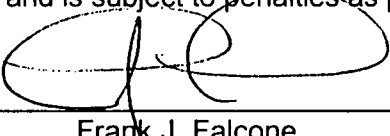
1. Test Number 1 Replicate (letter) A Date Collected 9/10/2000
2. Material Tested: ☒ Fill _____ Test in Native Soil-Indicate Depth _____
3. Type of Sample: ☒ Undisturbed _____ Disturbed
4. Sample Dimensions: Inside Radius of Sample Tube R, in cm. 3.81
Length of Sample, L, in inches 4.0
5. Bulk Density Determination (disturbed samples only): N/A
Sample Weight (Wt. Tube Containing Sample-Wt. of Empty Tube), grams _____
Sample Volume = (3.50 x 2.54 cm/in x 3.14 x 3.815) = _____
Bulk Density = 606.6 / 405.21 = _____
6. Standpipe Used: ☒ No _____ Yes - Indicate Internal Radius, cm. _____
7. Height of Water Level above Rim of Test Basin, in inches:
At the beginning of each test interval, H₁ 4.5
At the end of each test interval, H₂ 4.0
8. Rate of Water Level Drop (Add additional lines if needed):

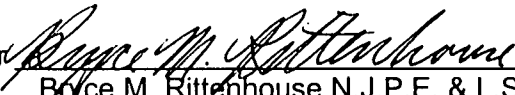
Time, Start of Test Interval, T1	Time, End of Test Interval, T2	Length of Test Interval, T, Minutes
<u>9:29:50</u>	<u>9:31:22</u>	<u>00:01:32</u>
<u>9:32:30</u>	<u>9:34:02</u>	<u>00:01:32</u>
<u>9:34:10</u>	<u>9:35:42</u>	<u>00:01:32</u>

Calculation of Permeability:

$$K, (\text{in/hr}) = 60 \text{ min/hr} \times r^2/R^2 \times L(\text{in})/T(\text{min}) \times 1 \ln (H_1/H_2) \\ = 60 \text{ min/hr} \times \text{---} / \text{---} \times 4.0 / 1.53 \times \ln (4.5 / 4.0) = 18.47$$

10. Defects in the Sample (Check appropriate items):
☒ None _____ Cracks _____ Worm Channels _____ Root Channels _____ Soil/Tube Contact _____
_____ Large Gravel _____ Large Roots _____ Dry Soil _____ Smearing _____ Compaction _____ Other - Specify _____
11. I hereby certify that the information furnished on Form 3b of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C.7:14-8.

Signature of Site Evaluator  Date 9/10/2000
Frank J. Falcone

Signature of Professional Engineer  Date 9/10/2000
Bryce M. Rittenhouse N.J.P.E. & L.S.#13543

PRINCETON JUNCTION ENGINEERING COMPANY
53 NORTH POST ROAD
P.O. BOX 610
PRINCETON JUNCTION, NEW JERSEY 08550
ph. (609) 799-1906 fax. (609) 799-1524

Client: Hill Environmental Group

Form 3b - Tube Permeameter Test Data:

Municipality Hopewell Township Lot 28 Block 49 - Harbat Property

1. Test Number 1 Replicate (letter) B Date Collected 9/10/2000
2. Material Tested: ☒ Fill ☐ Test in Native Soil-Indicate Depth _____
3. Type of Sample: ☒ Undisturbed ☐ Disturbed
4. Sample Dimensions: Inside Radius of Sample Tube R, in cm. 3.81
Length of Sample, L, in inches 4.0
5. Bulk Density Determination (disturbed samples only): N/A
Sample Weight (Wt. Tube Containing Sample-Wt. of Empty Tube), grams _____
Sample Volume = (3.50 x 2.54 cm/in x 3.14 x 3.815) = _____
Bulk Density = 606.6 / 405.21 = _____
6. Standpipe Used: ☒ No ☐ Yes - Indicate Internal Radius, cm. _____
7. Height of Water Level above Rim of Test Basin, in inches:
At the beginning of each test interval, H₁ 4.5
At the end of each test interval, H₂ 4.0
8. Rate of Water Level Drop (Add additional lines if needed):

Time, Start of Test Interval, T1	Time, End of Test Interval, T2	Length of Test Interval, T, Minutes
<u>9:37:25</u>	<u>9:39:00</u>	<u>00:01:35</u>
<u>9:39:30</u>	<u>9:41:05</u>	<u>00:01:35</u>
<u>9:41:20</u>	<u>9:42:55</u>	<u>00:01:35</u>

Calculation of Permeability:

$$K, (\text{in/hr}) = 60 \text{ min/hr} \times r^2/R^2 \times L(\text{in})/T(\text{min}) \times 1n (H_1/H_2) \\ = 60 \text{ min/hr} \times \text{--} / \text{--} \times 4.0 / 1.58 \times \text{Ln} (4.5 / 4.0) = 17.89$$

10. Defects in the Sample (Check appropriate items):
☒ None ☐ Cracks ☐ Worm Channels ☐ Root Channels ☐ Soil/Tube Contact
☐ Large Gravel ☐ Large Roots ☐ Dry Soil ☐ Smearing ☐ Compaction ☐ Other - Specify _____
11. I hereby certify that the information furnished on Form 3b of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C.7:14-8.

Signature of Site Evaluator Frank J. Falcone Date 9/10/2000

Signature of Professional Engineer Bryce M. Ritterhouse Date 9/10/2000
Bryce M. Ritterhouse N.J.P.E. & L.S.#13543

ph.(609) 799-1906 fax.(609) 799-1524

Client: Hill/Harbat Municipality Hopewell Twp., Mercer Co., N.J. Lot 28 Block 49

- * Passing results for select fill material as per N.J.A.C. 7:9A 10.1 (f).**

Signature of Site Evaluator Frank J. Falcone Date 09/02/00

Signature of Professional Engineer Bryce M. Filttenhouse Date 09/02/00
Bryce M. Filttenhouse: N.J. P.E. & L.S. #13453

D:\FRANK\Hill-Harbat\harbat-asb class 1b.doc

PRINCETON JUNCTION ENGINEERING COMPANY
53 NORTH POST ROAD
P.O. BOX 610
PRINCETON JUNCTION, NEW JERSEY
ph.(609) 799-1906 fax.(609) 799-1524

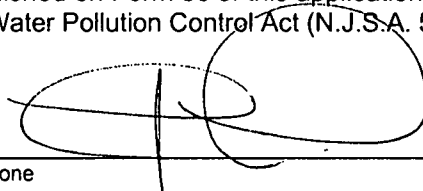
Form 3c - Soil Permeability Class Rating Data:

Client: Hill/Harbat Municipality Hopewell Twp., Mercer Co., N.J. Lot 28 Block 49

1. Test Number #1 Replicate (Letter) A
2. Sample Depth Select Fill Soil Pit/Boring Number Date Collected 09/01/00
3. Coarse Fragment Content:
Total Weight of Sample, W.T., grams 761.0
Weight of Material Retained on 2 mm sieve, W.C.F., grams 22.7
Wt. % Coarse Fragment (W.C.F./W.T. x 100): 2.98%
4. Oven Dry Weight (24 hrs, 105°C) of 40 Gram Air Dry Sample, Grams, Wt 39.9
5. Hydrometer Calibration, Rc 4.0
6. Hydrometer Reading - 40 seconds, grams, R1 6.0
Temperature of Suspension, °F 71.6°
7. Corrected Hydrometer Reading, grams, R1' 2.72
8. Hydrometer Reading - 2 hours, grams, R2 6.0
Temperature of Suspension, °F 71.6°
9. Corrected Hydrometer Reading, grams, R2' 2.72
10. % sand = (Wt. - R1)/Wt. x 100 = (39.9 - 2.72) / 39.9 x 100 = 93.18%
11. % clay = R2'/Wt. x 100 = 2.72 / 39.9 x 100 = 6.82%
12. Sieve Analysis:
 - a. Oven Dry Wt. (2 hrs., 105° C) Total Sand Fraction
(Soil Retained in 0.05 mm Sieve), grams 38.1
 - b. Wt. of Fine Plus Very Fine Sand Fraction
(Sand Passing 0.25 mm Sieve), grams 10.1
 - c. % Fine Plus Very Fine Sand (b/a) x 100 26.5%
13. Soil Morphology (Natural Soil Samples Only): N/A
Structure of Soil Horizon Tested
Consistence of Soil Horizon Tested: Dry Moist
14. Soil Permeability Class Rating (based upon average textural analysis
of replicate and other replicate samples) *

* Passing results for select fill material as per N.J.A.C. 7:9A 10.1 (f).

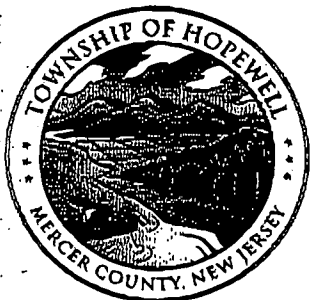
15. I hereby certify that the information furnished on Form 3c of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator  Date 09/02/00
Frank J. Falcone

Signature of Professional Engineer  Date 09/02/00
Bryce M. Rittenhouse: N.J.P.E. & L.S.#13453

AFFIX SEAL

D:\FRANK\Hill-Harbat\harbat-asb_class_1a.doc



TOWNSHIP OF HOPEWELL

MERCER COUNTY

201 Washington Crossing/Fannington Road
 Titusville, New Jersey 08560-1410
 Phone: 609.735.8600
 Fax: 609.735.8600

Forward: construction,
~~Health~~ Tax,
 zoning,
 Fire

DEC 05 2014

Health Department
 Township of Hopewell

DEC 05 2014

Health Department

REQUEST FOR INFORMATION

Date of Request: 12-4-2014

1. Received from:
 Andrew J. Reeves (Quest Environmental & Engineering Services, Inc.)

(Name)

1741 Route 31, Clinton, NJ 08809

(Address)

2. Telephone No: (908) 735-8600 (optional)

3. Document/Information Requested: Site: 45 Road, Block 49/Lot 28/28Q, Hopewell Township, Mercer County, NJ.

I am completing a Preliminary Assessment of the above referenced property. As such, I will need to review files maintained by the Township for the property. Departments of particular interest are Construction, Health, Tax, Zoning, and Fire.

Please note there often are charges for the production of information requests. Those who make a request for information must pay the charge for the copies, reproduction, retrieval costs and materials before any copies of information will be released.

For Office Use

Fee Paid: 00
 Rec'd by: [Signature]
 Date given: 12/9/14
 Given by: [Signature]

Notes:



TOWNSHIP of HOPEWELL

MERCER COUNTY

DEPARTMENT OF HEALTH

201 Washington Crossing Pennington Road
Titusville, New Jersey 08560-1410



Public Health
Prevent. Promote. Protect.

December 9, 2014

Quest Environmental & Engineering Services
Mr. Andrew J. Reeves
1741 Route 31
Clinton, NJ 08809

RE: Block 49, Lot 28/28Q – Information Request

Dear Mr. Reeves,

This office has received your information request dated 12-4-2014 and conducted a file search. We do have records that you will want to review.

You are invited to come to the health dept. and review the file any time, between 8:30am to 4:30pm, Monday through Friday. You do not need to make any prior arrangements to review files here. We will furnish you with the file, a place to review, and access to a copy machine. We only ask you allow enough time to complete your review before 4:30pm, so we can leave on time and meet our family obligations.

If you have any further questions, please don't hesitate to contact me directly at (609) 537-0239. Otherwise, we will see you soon.

Sincerely,

Robert B. English
Health Officer



TOWNSHIP of HOPEWELL

MERCER COUNTY

DEPARTMENT OF HEALTH

201 Washington Crossing Pennington Road

Titusville, New Jersey 08560-1410

Phone: 609.737.0120 Fax: 609-737-6836 www.hopewelltp.org



Public Health
Prevent. Promote. Protect.

REQUEST FOR INFORMATION

Date of Request: 12/4/14

Received from: Andrew Reeves (Quest Env. & Eng. Serv., Inc.)

Address: 1741 Route 31, Clinton, NJ 08820

Telephone # 908/735-8600

Document/Information Requested: All files related to property

Block 49 Lot 28/280

Address: 45 Yerd Road
Hopewell Twp.

Please note: there are often charges for the production of information requests. Those who make a request for information must pay the charge for copies, reproduction, retrieval costs and materials before any copies of information will be released.

For Office Use:

Fee paid: _____

Revd. by: _____

Date: _____

Notes: _____

Foresight Engineering

of Flemington est. 1984



84 Park Ave. P.O. Box 762 Flemington NJ 08822

foresightengineering@earthlink.net

www.foresightengineering.net

(908) 788 7551

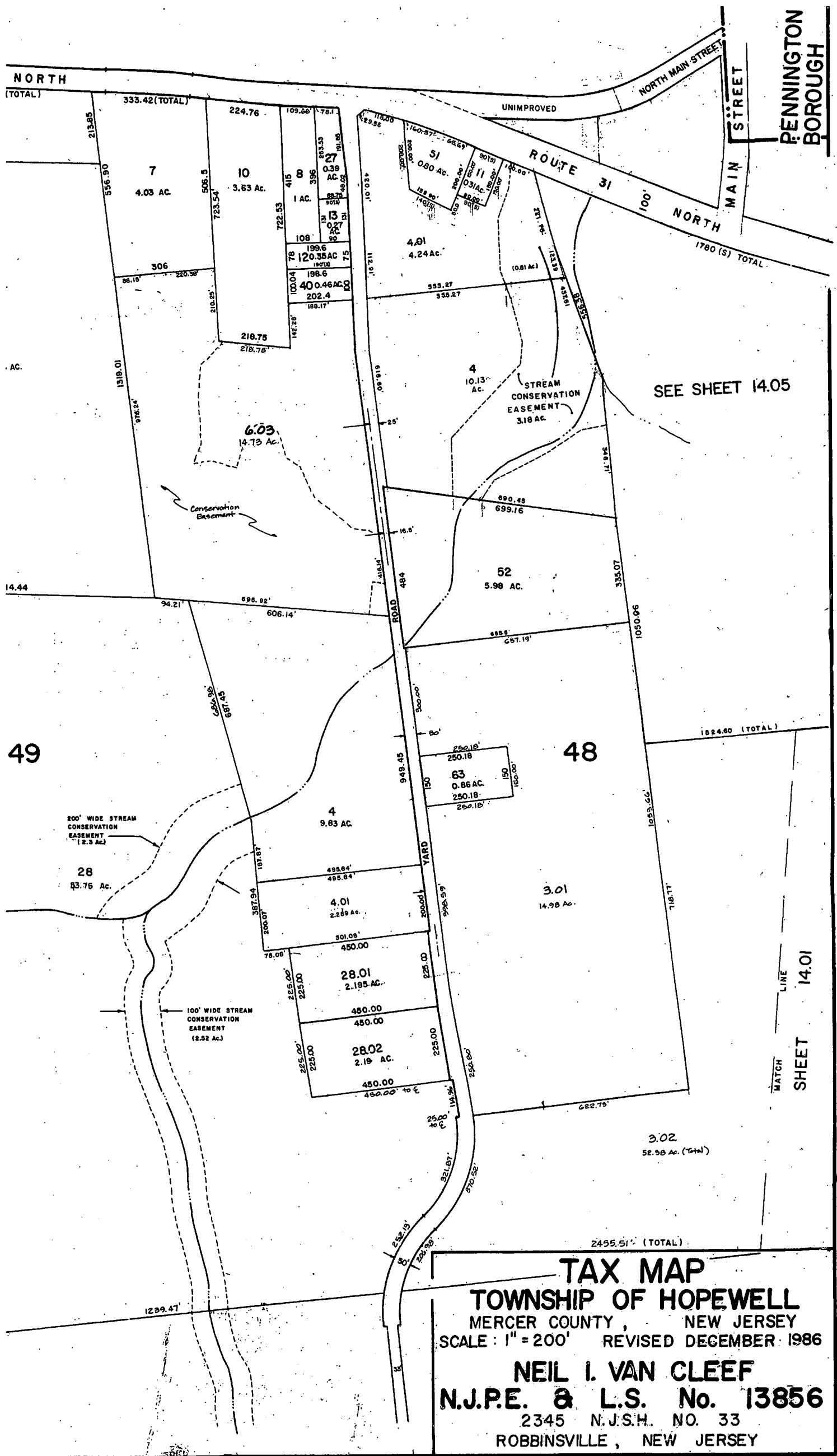
fax (908) 788 5337

Norman Rathborne

NJ-HI Lic# 413, NJ-ICS Lic# 7787

Inspections

Building-Termite-Septic-Well-Radon-Engineering



PENNINGTON
BOROUGH

SEE SHEET 14.05

MATCH LINE
SHEET 14.01

Block: 49 Prop Loc: 45 YARD RD
Lot: 28 District: 06 HOPEWELL TWP 08525
Qual: Class: 3A

Owner: STONY BROOK FARMS LLC
Street: 838 SERGEANTSVILLE RD
City State: STOCKTON NJ Zip: 08559

Square Ft: 0
Year Built: 2001
Bldg:

Prior Block: Acct Num:
Prior Lot: Mtg Acct:
Prior Qual: Bank Code:
Updated: 01/29/06 Tax Codes: F01
Zone: VRC Map Page: 1404

Additional Information

Addl Lots:
Land Desc:
Bldg Desc: BARNS
Class4Cd:
Acreage: 0.000

EPL Code: 00 00 000
Statute:
Initial: 000000Further: 000000
Desc:
Taxes: (57): 3492.21
(58): 0.00

Sale Date: 03/16/05 Book: 5016 Page: 19

Sale Information

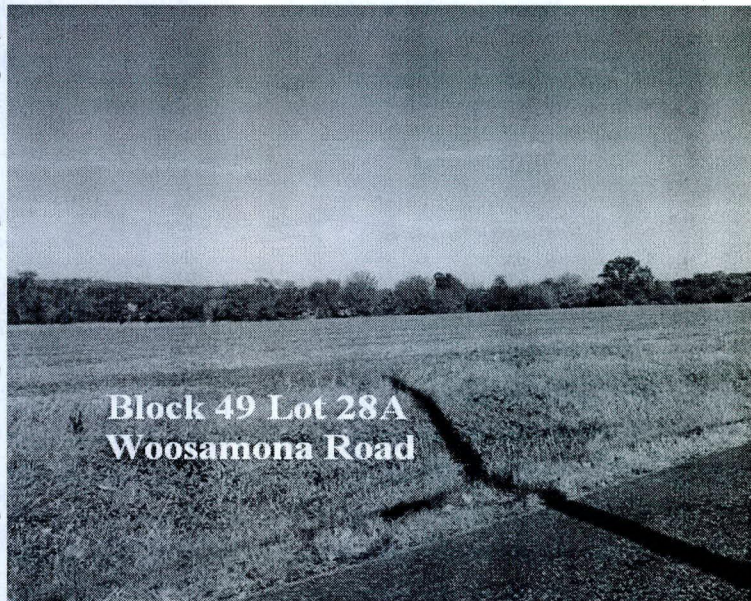
Price: 957000 NU#: 26

Ratio: 0.00

TAX-LIST-HISTORY

Year Owner Information Land/Imp/Tot Exemption Assessed

2013	STONY BROOK FARMS LLC	0	0	138800
	838 SERGEANTSVILLE RD	138800	.	
	STOCKTON NJ 08559	138800	.	
2012	STONY BROOK FARMS LLC	0	0	138800
	838 SERGEANTSVILLE RD	138800	.	
	STOCKTON NJ 08559	138800	.	
2011	STONY BROOK FARMS LLC	0	0	138800
	838 SERGEANTSVILLE RD	138800	.	
	STOCKTON NJ 08559	138800	.	
2010	STONY BROOK FARMS LLC	0	0	138800
	838 SERGEANTSVILLE RD	138800	.	
	STOCKTON NJ 08559	138800	.	



Health Officer

**TOWNSHIP OF HOPEWELL
MERCER COUNTY, NEW JERSEY**

R E S O L U T I O N #00-255

**A RESOLUTION AUTHORIZING REFUNDS
FOR SOIL TEST WITNESSING**

WHEREAS, fees were paid for soil test witnessing; and

WHEREAS, soil test witnessing was not performed.

NOW, THEREFORE, BE IT RESOLVED on this 17th day of August, 2000 by the Township Committee of the Township of Hopewell, County of Mercer, State of New Jersey that the following refund be and is hereby authorized:

1. Erwin Harbat
Harbat Farms
64 Woosamonsa Road
Pennington, N.J. 08534

~~For Block 49, Lot 28~~

Date scheduled and paid for July 27, 2000, soil test witnessing fee of \$350.00 per day.

Date Adopted: August 17, 2000

COPY

HOPEWELL TOWNSHIP HEALTH DEPARTMENT

MEMORANDUM

TO: Rose Tkacs, Administration
FROM: Shirley Kuntz, Health
DATE: August 4, 2000
SUBJECT: Refund
Soil Test Witnessing
CC: Debbie Smith



Please have a resolution prepared to refund payment of \$350.00, check was deposited July 12, 2000 for payment of one day's soil witnessing, scheduled for July 27, 2000 which was not used. Block 49, Lot 28, Woosamonsa Road.

Erwin Harbat
Harbat Farms
64 Woosamonsa Road
Pennington, NJ 08534

SS #149-32-3415



NEW VENDOR REQUEST

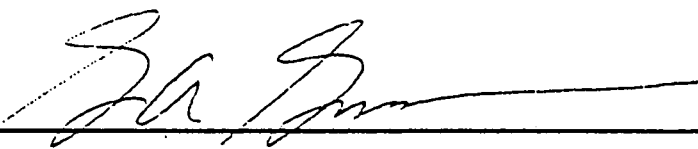
NAME: HARBAT FARMS

ADDRESS: 64 WOOSANIMSA RD.
PENNINGTON, NJ 08534

PHONE NUMBER: (609) 737-2800

FAX NUMBER: _____

TAX ID NUMBER: 149-32-3415

REQUESTED BY 

****Note:** Please give proper name of business. If Inc., Co. or any other designation is given, please include in title.

COPY

HOPEWELL TOWNSHIP HEALTH DEPARTMENT

MEMORANDUM

TO: William White, MCO

FROM: Robert English, EHS

DATE: 7-31-00

SUBJECT: Block , Lot

49 27 Harbat

This office takes no exception to the issuance of a footing and foundation permit only.



HOPEWELL TOWNSHIP HEALTH DEPARTMENT

MEMORANDUM

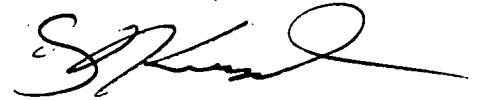
TO: William White, MCO

FROM: Robert English, EHS

DATE: 7-31-00

SUBJECT: Block , Lot
49 28 Haabat

This office takes no exception to the issuance of a footing and foundation permit only.



Used 7/26/00

Not Used 7/27/00

49/28

64 Wasmansa for

Erwin Harbat

Check dated 7-12-2000

• Inmate

pls call ERWIN to
Arrange a Refund

737-2800

Harbat Farms
Beet Phillips

7/27/00
SPK

BF 1

TD=78"

F-12"-10:36

R-Day-1:10

F-12"-1:14

R-Day-5:45

BF 2

TD=36

F-12"-11:30

R-Day-1:15

F-12"-1:25

R-Day-4:30

BF 3

TD=60"

F-12"-12:21

R-12'-2:05

N/G

BF 4

TD=54"

F-12'-2:18

R-Day-2:28

F-12"-5:30

R-Day-5:50

~~SL~~ SL 4 / BF 2

0-12 TS

12-36 Red Brn Clay loam

36-60 Lt Gray Silty Clay - Com, med, Dist Mottles 36-60

60 - ?

SL 3

0-12 TS

12-

New Jersey Department of Health and Senior Services
Environmental and Chemical Laboratory Services
Radioanalytical Services
PO Box 361
Trenton, NJ 08625-0361

L19 (28)

RECEIVED

JAN 20 2001

Requested Processing:	
☐	Routine
☒	Priority
☐	Emergency

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA

Name of Submitting Agency Harbat Farms, Yard Rd Pennington		PWSID 009013	Sample Type Raw Water	Lab Control No. 0100071
Collection Interval (Date, Time) From: 1/9/01 10:00 To: 1/17/01		Instrumentation Supv. W. H. Smith		Date 1/17/01
Field Sample ID No. 009013	Composite of Lab Control Numbers:			

Parameters	Sample Results (in pCi/L)		Quality Assurance Data (in pCi/L)		Average Value (in pCi/L) (If available)	Analyst Initial/ Compl. Date
	Sample Conc.	MDC	Duplicate Conc.	Blank Conc.		
Alpha (Total)	8.3 ± 1.4	0.55		0.01 ± 0.16		BP 1/12/01
Alpha (SUS.)						
Alpha (DIS.)						
Beta (Total)						
Beta (SUS.)						
Beta (DIS.)						
H-3						
I-131 ¹						
Ra-224						
Ra-226 ¹						
Ra-228						
Rn-222						
Sr-89						
Sr-90						
Total U						
Ce-144						
Ce-141						
Cr-51						
I-131						
Be-7						
Ru-103						
Cs-134						
Ra-226						
Ru-106						
Cs-137						
Zr-95						
Nb-95						
Co-58						
Mn-54						
Fe-59						
Zn-65						
Co-60						
K-40						
Ba-140La						

REPORT SUBMITTED
 1/17/01 1:30 PM
 J. J. JAN 19 2001

¹ Radiochemical Analysis

Note: For all samples, except SDWA, uncertainties are counting errors at 95% level of confidence.
For SDWA samples, uncertainties are counting errors at 90% level of confidence.

DISTRIBUTION: WHITE - Sample Folder
CANARY - Client
PINK - Laboratory

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Lab Control No.	01000071
Lab Batch No.	11/11/11
Requested Processing:	☐ Routine ☒ Priority ☐ Emergency
State Container	☒

Sample will be discarded after analysis unless noted below under "Remarks."

Sampling Location HARBAT FARMS, YARD RD, PENNINGTON N.J.					PWSID	
Field Sample ID 009013		Sample Type/Code* RAW / WELL		Vol/Wt. + GAL.		Preserved ☒
Responsible Agency HA			Collection Interval Mo Day Yr 01 09 01		Time 24 Hr. 1000	
Person Authorized to Request Analysis DANALD LILLO			Start 01 09 01		Stop	
Telephone No.		Send Results to (Name) LECO LABS 3123 BLOCKHOLM RD.				
Name and Address of Unit		TRENTON N.J. 08670 609-588-0011				

Analyses to be Performed

☒ Gross Alpha (Total)

☐ Gross Beta (Total)

☐ Gross Alpha (Sus., Dis.)

☐ Gross Beta (Sus., Dis.)

☐ Gamma Spec.

☐ Tritium

☐ Sr-89/90

☐ Sr-90

☐ I-131 Radiochem.

☐ I-131 Gamma Spec.

☐ Rn-222

☐ Ra-224

☐ Ra-226

☐ Ra-228

☐ Uranium

☐ Thorium

☐ Other, Specify: _____

Remarks
DO NOT FOLLOW SDW PROTOCOL

[illegible]

RECEIVED
FEB 19 2001
JAN 19 2001