

C1 05001

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER A 48313

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO 94 1546

OWNER: Marsh Folly Quarter, Donna Walker, Clarksville, Buckskin Lane, SECTION, LOT 51

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Topsoil, Brown Shell, Micb, Sandstone, Blk Rock, and Cat water.

GROUTING RECORD form including fields for CEMENT (CM), BENTONITE CLAY (BC), NO. OF BAGS (8), NO. OF ROUNDS (31), and DEPTH OF GROUT SEAL (30).

CASING RECORD form including fields for casing types (ST, CO, PL, OT) and MAIN CASING TYPE (PL).

SCREEN RECORD form including fields for screen type (ST, BR, HO, PL, OT) and DEPTH (nearest ft.)

PUMPING TEST form including fields for HOURS PUMPED (3), PUMPING RATE (4), METHOD USED TO MEASURE PUMPING RATE (Submersible), and TYPE OF PUMP USED (S).

WELL HYDROFRACTURED form with YES/NO options (Y/N).

DEPTH (nearest ft.) table with columns for casing depth intervals from 1 to 51 feet.

CIRCLE APPROPRIATE LETTER form with options A, E, P.

SCREEN RECORD form including fields for screen type and DEPTH (nearest ft.)

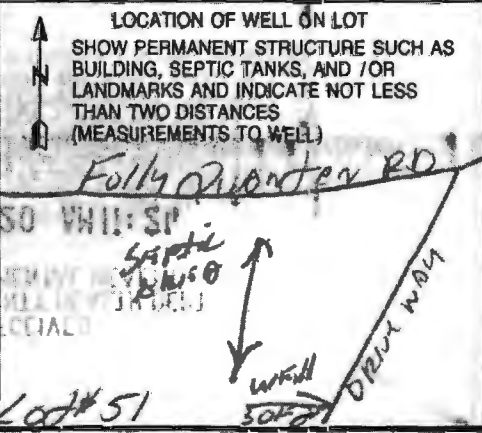
PUMP INSTALLED form including fields for DRILLER WILL INSTALL PUMP (YES/NO), TYPE OF PUMP INSTALLED, CAPACITY, and PUMP HORSE POWER.

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

SCREEN RECORD form including fields for screen type and DEPTH (nearest ft.)

DRILLERS LIC. NO. M S D 143, DRILLERS SIGNATURE, LIC. NO. M D

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) form including fields for GRAVEL PACK, TELESCOPE CASING, LOG INDICATOR, and OTHER DATA.



SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

B 1 8477 SEQUENCE NO. (MDE USE ONLY)

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

STATE OF MARYLAND
 PERMIT TO DRILL WELL
 please print or type

STATE PERMIT NUMBER
HO-94-1546
 fill in this form completely

Date Received (APA) 04/21/98

OWNER INFORMATION

8 MM DD YY 13
MARKS WALKER DONN D
 15 Last Name Owner First Name 34

36 100 Harbor View Street or RFD 55

57 Baltimore MD 21230 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL

8 COUNTY HOWARD 21

23 SUBDIVISION BUCKSKIN WOODS 42

SECTION 44 46 LOT 51 48 50

52 NEAREST TOWN CLARKSVILLE 71

MILES FROM TOWN (enter 0 if in town) 4 M I
 73 76 77 78

DRILLER INFORMATION

Perry HARLEY M S D 143
 Driller's Name 76 License No. 81

HARLEY DRILLING
 Firm Name

Box 160 Walkersville, MD 21793
 Address

Perry Harley 4-20-98
 Signature Date

B 4

1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

Folly Quarter RD
 11 NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

NORTH N
 WEST W EAST E
 SOUTH S

34 1,000 37 DISTANCE FROM ROAD ENTER (FT) OR MI 38 39

TAX MAP: 22 BLK: _____ PARCEL 26

B 2 WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 3 8 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 600 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)

FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)

PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE APPROVAL)

TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard COUNTY NAME COUNTY NO. A48313

STATE SIGNATURE _____ INSERT S _____ 41

DATE ISSUED 5/15/98 Ronald [Signature] 5/15/99
 43 MM DD YY 48 CO SIGNATURE EXP. DATE

NORTH GRID 519 000 EAST GRID 0910 000
 50 55 57 63

APPROXIMATE DEPTH OF WELL 200 FEET
 24 26

APPROXIMATE DIAMETER OF WELL 6" NEAREST INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER
 1. DOMESTIC WELL
 2.
 3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 810
 N 5197

000
 000

6-9-98 Folly Quarter rd location as marked X 10:30 - grant not yet done

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN

30 AIR-ROTARY AIR-PERCUSSOR ROTARY (Hydraulic Rotary)

37 CABLE REVERSE-ROTARY DRIVE-POINT

other _____

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

THIS WELL WILL NOT REPLACE AN EXISTING WELL

THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

39 THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

THIS WELL WILL DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52

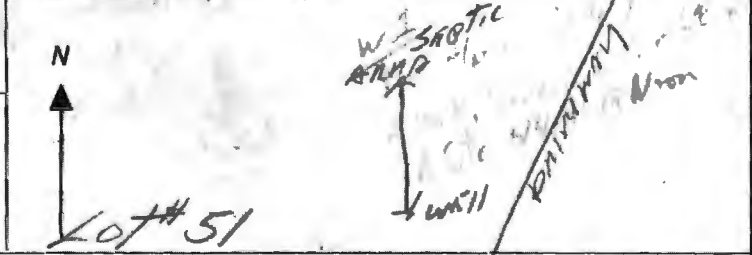
DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION

Folly Quarter rd

Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROF. PERMIT NUMBER _____ G A P _____ 54 63

FORCE RP WRITE INITIALS IN BOX PERMIT No. HO-94-1546
 67 68 70 71 72 73 74 75 76 77 78 79



SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Exhibit A
MDR 12482 PLO 244

SHANABERGER & LANE

Surveying • Land Planning • Construction Stakeout

DESCRIPTION OF WELL EASEMENT ON OPEN SPACE LOT 6, MAISEL PROPERTY FOR THE USE OF LOT 51, BUCKSKIN WOODS

An easement, 20 feet wide around an existing well, over part of Open Space Lot 6 as shown on a subdivision plat entitled "Maisel Property, Lots 1 Thru 6 and Preservation Parcels A & B, Sheet 4 of 4" and recorded among the Land Records of Howard County, Maryland in as Plat Number 14527; said easement being more particularly described as follows:

BEGINNING for said easement at a point northwest of Maisel Farm Lane at a point on, and distant 89.81 feet from an iron pin and cap found at Coordinate Point 34 at the end of, the North 54° 09' 57" East 321.84-foot outline of the abovementioned Plat Number 14527; thence binding reversely on part of said plat outline, and binding on part of the line of the South 54° 09' 58" West 152.00-foot outline of Lot 51 as shown on a subdivision plat entitled "Buckskin Woods, Lots 50-54, Sheet 2 of 2" and recorded among the Land Records of Howard County, Maryland as Plat Number 11117:

- 1) South 54° 09' 57" West a distance of 20.00 feet to a point lying 42.19 feet from an iron pin and cap found at the southernmost corner of Lot 51, Buckskin Woods; thence running across part of Open Space Lot 6 as shown on the abovementioned Plat Number 14527 so as to provide access to an existing well, the three (3) following courses and distances:
- 2) South 35° 50' 03" East, passing 10 feet southwest of an existing well, a distance of 16.36 feet; thence
- 3) North 54° 09' 57" East, passing 10 feet southeast of an existing well, a distance of 20.00 feet; thence
- 4) North 35° 50' 03" West, passing 10 feet northeast of an existing well, a distance of 16.36 feet to the place of beginning.

CONTAINING 327 square feet of land, more or less, as surveyed by Shanabarger and Lane in March, 2010.

BEING an easement over part of Open Space Lot 6 as shown on a subdivision plat entitled "Maisel Property, Lots 1 Thru 6 and Preservation Parcels A & B, Sheet 4 of 4" and recorded among the Land Records of Howard County, Maryland in as Plat Number 14527.



Desc331.doc

Exhibit A MDR 12482-245

LOT 53

LOT 51
BUCKSKIN WOODS

MAISEL FARM LANE

LOT 52
BUCKSKIN WOODS

EX. WELL
92-0250



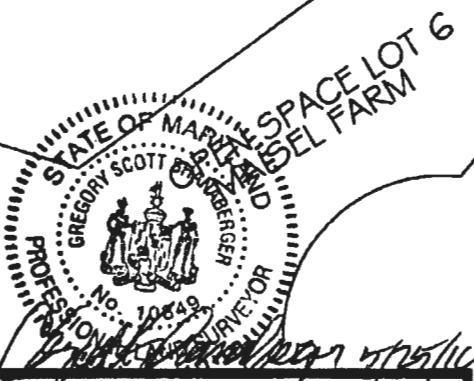
IRON PIN FD.

EX. WELL
94-1546

PROPOSED WELL EASEMENT
327 SQ. FT. ±

42.13
20.00
54°09'57" W
54°09'57" W
N 35°50'03" W 16.36'
N 54°09'57" E 20.00'
S 35°50'03" E 16.36'

THE FD. SURE \$	20.00
RECORDING FEE	20.00
TOTAL	40.00
Rest HOBB	Recpt # 44133
MDR CCH	Bik # 2826
May 27, 2010	12:46 PM



SHANABERGER & LANE

8726 TOWN & COUNTRY BLVD.
SUITE 201
ELLCOTT CITY, MD. 21043
PHONE: 410-461-9563

PLAT TO ACCOMPANY EASEMENT DESCRIPTION ON
OPEN SPACE LOT 6, MAISEL FARM

FOR THE USE OF
LOT 51, BUCKSKIN WOODS

5TH ELECTION DISTRICT, HOWARD COUNTY, MD.

SCALE: 1" = 50' DATE: 5/25/2010

WELL EASEMENT AGREEMENT

THIS WELL EASEMENT AGREEMENT, (this "Agreement") is made and entered into this 26th day of May, 2010, by and between HONG-TAO MA and XIAO-HONG LI, parties of the first part and MAISEL PROPERTY HOMEOWNERS' ASSOCIATION, INC., a Maryland Corporation, party of the second part.

WITNESSETH:

WHEREAS, the parties of the first part are the owners of an improved lot or parcel of ground known as Lot No. 51, as shown on a Plat entitled, "Buckskin Woods, Lots 50-54 (A Resubdivision of Lot 26, Buckskin Woods and Lot 9 Buckskin Farms), Sheet 2 of 2", which plat is recorded among the Land Records of Howard County, Maryland in Plat Book M.D.R. No. 11117 (hereinafter referred to as "Lot 51"); and

WHEREAS, the party of the second part is the owner of Open Space Lot No. 6, situate, lying and being in the Fifth Election District of Howard County, Maryland as shown on the Final Record Plat entitled, "Maisel Property, Lots 1 thru 6 and Preservation Parcels A & B" and recorded among the Plat Book Records of Howard County, Maryland as Plat Nos. 14524 thru 14527 (hereinafter referred to as "Lot 6"); and

WHEREAS, the Owners of Lot 51 purchased the lot with the use of an existing well having Howard County Tag #94-1546, believing that that well which served the improvements on Lot 51 was on Lot 51; and

WHEREAS, it has been recently discovered that the existing well #94-1546 serving Lot 51 is actually located on Lot 6; and

WHEREAS, the Owners of Lot 51 have requested from the Owner of Lot 6 a permanent easement to maintain and said improvements; and

WHEREAS, the Owner of Lot 6 has agreed to grant such an easement, subject to the conditions more fully set forth herein.

NOW, THEREFORE, WITNESSETH; that in consideration of the mutual promises and covenants of the parties hereto and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

1. The party of the second part, for itself, its successors and/or assigns, hereby grants and conveys to the parties of the first part, their heirs, personal representatives and assigns, an exclusive twenty foot wide (20') by sixteen and thirty-six one-hundredths foot (16.36') long perpetual easement across Lot 6 for ingress and egress to the existing well as more particularly shown on Exhibit "A" (the "Well Easement Area") attached hereto and made a part hereof;

2. The parties of the first part shall be responsible for maintaining the Well Easement Area at their sole cost and expense and shall indemnify and hold harmless the party of the second part from any liability, cost or expense incurred in maintaining the Well Easement Area;

3. The party of the second part agrees not to erect or permit anything to be erected within the Well Easement Area or to fill or excavate within the Well Easement Area without the express consent of the parties of the first part;

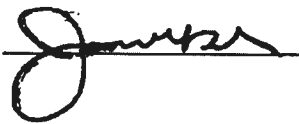
4. The parties of the first part shall have the right of ingress and egress over, under and across the Well Easement Area for the purpose of inspecting, maintaining and replacing the well and laying and maintaining and replacing any supply pipes servicing the well;

5. This easement shall run with the land and be binding upon all parties having or acquiring any right, title and interest in the above described properties and shall inure to the benefit of the owners and their respective personal representatives, successors and assigns.

6. The party of the second part, by the execution of this Agreement hereby acknowledges that he has the authority and capacity to bind Maisel Property Homeowners' Association, Inc. to the terms and conditions set forth herein.

WITNESS, the hands and seals of the respective parties the day and year first hereinabove written.

WITNESS:

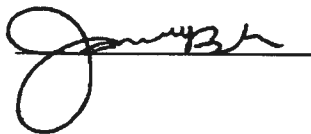


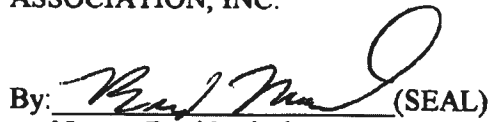
 (SEAL)
Hong-Tao Ma



 (SEAL)
Xiao-Hong Li

MAISEL PROPERTY HOMEOWNERS' ASSOCIATION, INC.



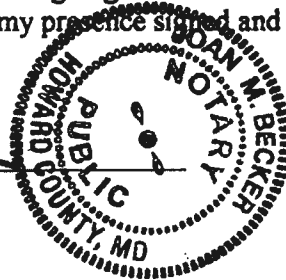
By:  (SEAL)
Name: Brad Maisel
Title: President

STATE OF MARYLAND, Howard County, to wit:

I HEREBY CERTIFY that on this 26th day of May, 2010, before me, the subscriber, a Notary Public of the State of Maryland, before me personally appeared HONG-TAO MA, known to me (or satisfactorily proven) that he, executed the within and foregoing Easement Agreement as his act for the uses and purposes therein contained and in my presence signed and sealed the same.

AS WITNESS my hand and Notarial Seal.

Joan M. Becker
Notary Public



My Commission Expires: 10/07/2011

STATE OF MARYLAND, Howard County, to wit:

I HEREBY CERTIFY that on this 26th day of May, 2010, before me, the subscriber, a Notary Public of the State of Maryland, before me personally appeared XIAO-HUNG LI, known to me (or satisfactorily proven) that she, executed the within and foregoing Easement Agreement as her act for the uses and purposes therein contained and in my presence signed and sealed the same.

AS WITNESS my hand and Notarial Seal.

Joan M. Becker
Notary Public



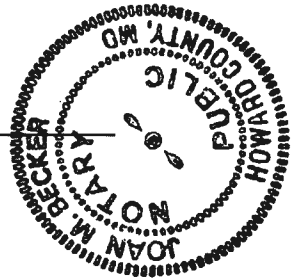
My Commission Expires: 10/07/2011

STATE OF MARYLAND, Howard County, to wit:

I HEREBY CERTIFY that on this 26th day of May, 2010, before me, the subscriber, a Notary Public of the State of Maryland, before me personally appeared BRAD MAISEL, the President of MAISEL PROPERTY HOMEOWNERS' ASSOCIATION, INC., known to me (or satisfactorily proven) that he, being authorized so to do, executed the within and foregoing Easement Agreement as his act as President on behalf of Maisel Property Homeowners Association, Inc. for the uses and purposes therein contained and in my presence signed and sealed the same.

AS WITNESS my hand and Notarial Seal.

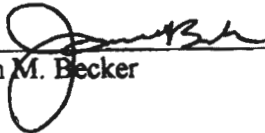
Joan M. Becker
Notary Public



My Commission Expires: 10/07/2011

LIBR 12482 FOLIO 243

Pursuant to the provisions of the Real Property Article of the Annotated Code of Maryland, this is to certify that the within Easement Agreement was prepared by the undersigned, an attorney at law duly admitted to practice and in good standing with the Court of Appeals of Maryland.


Joan M. Becker

AFTER RECORDING, RETURN TO:
Joan M. Becker, Esquire
Joan M. Becker, LLC
15300 Carrs Mill Road
Woodbine, MD 21797

**HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WELL & SEPTIC PROGRAM
TEL: (410)313-1771 FAX: (410)313-2648**

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: B&B Piping Specialist Telephone #: 443 472 0949
Address: 4333 Maiseel Farm Lane
Ellicott City MD 21042

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:

Name (Print): Robert Alan Thurman License# 17380

***A licensed individual must perform the actual installation. Apprentices must be under the supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification. Unlicensed individuals may be reported to the appropriate licensing agency.**

Name of Property Owner: Hong-TAO Ma Telephone #: 443-472-0949
Subdivision: Glenelg Manor Farm Lot #: 51 Well Tag #: HO-94-1546
Site Address: 4268 Maiseel Farm Lane
Ellicott City MD 21042

Submersible Pump Data

Make: Goulds
Model #: 10G307412C
Pump Capacity 10 GPM
Well Yield: 4 GPM

Pitless Adapter

Make: BIF
Model#: P-100-SS
Depth: _____ (36" min)
NSF/WSC approved: _____

Well Cap and Electric Conduit

Two piece watertight cap: _____
Screened, vented well cap: _____
Cap secured to casing: _____
Conduit min 18" B.G.: _____

Depth of well encountered at time of pump installation: 27.5 (feet) Conduit secured to well cap: Yes

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Torque arrestors, Cable guards, or other acceptable method used- Must circle one

Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing

Piping to house

Type: Poly
PSI: 160 (160 psi min)
Depth of supply line: _____ (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: _____
Length of sleeve(5' minimum from foundation): _____
Sleeve sealed properly: _____

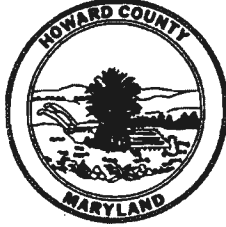
The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation: [Signature] date: 10/24/12

For Health Department Use Only – Not to be completed by Installer

Date Insp. Requested: 10/25/12 Date Insp. Approved: 10/26/12 Inspector: [Signature]
Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade
Two piece cap installed and attached to casing securely
Elec. conduit extends at least 18" below grade/attached to cap properly
Safety rope not outside of well cap/casing
Correct well tag attached properly and casing 8" above finished grade
Water supply line sleeved adequately at house connection
Adequate grout observed below pitless adapter

Not finished
[Signature]
10/25/12



HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer
April 23, 1998

Donna Marsh
100 Harbor View
Baltimore, Maryland 21230

Re: Well Permit Application
Buckskin Woods
Lot 51
Folly Quarter Road

Driller: Perry Harley

Dear Ms. Marsh:

The above referenced well drilling application cannot be processed at this time because no well stakes where found on the property, septic area needs to be staked, there are Perc holes only 50' from the most probable well site based on corner marker Lot 51/52.

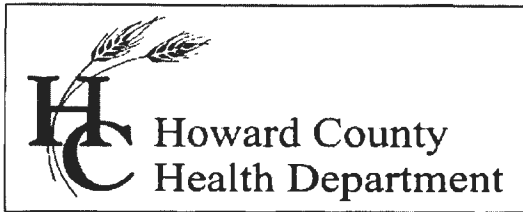
Please contact this office to resolve this matter so we may complete the review of your application. Thank you.

Very truly yours,

Ronald J. Pinkley, R.S.
Water and Sewerage Program

RJP:tl
cc: File

*WSP
Meet Harley (Site)
& Mr. V. S. (Carpenter/Boyd)
at Site 4/14/98 @ Noon*



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
Main: 410-313-6300 | Fax: 410-313-6303
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – January 5, 2014

July 5, 2013

Hong -Tao Ma
4268 Maisel Farm Lane
Ellicott City, MD 21042

**RE: Buckskin Woods, Lot 51
4268 Maisel Farm Lane
Building Permit: B12003080
Well Permit: HO-94-1546**

Dear Homeowner:

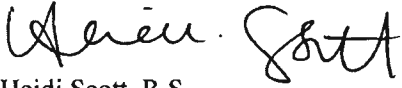
This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on **12/5/2011**. Final approval of the well line connection to the dwelling was granted on **10/26/2012**. The well construction was completed on **6/9/1998**. Water samples were collected on **6/26/2013**.

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-94-1546. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

This Interim Certificate of Potability will expire **six months** from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will be issued. **Failure to submit an additional sample and obtain a Final Certificate of Potability will result in a Notice of Violation and is punishable as a misdemeanor under the Annotated Code of Maryland, Environment Article, 9-1311, subject to a fine of up to \$500 or imprisonment not to exceed three months.**

Please contact (410) 313-1773 to schedule a final water sample appointment or contact a Maryland certified water laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website:
<http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>

Approving Authority,

A handwritten signature in black ink, appearing to read "Heidi Scott". The signature is written in a cursive, flowing style.

Heidi Scott, R.S.
Environmental Sanitarian
Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits
Community Hygiene Program
File

ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

FINAL REPORT OF ANALYSES

Hong-Tao Ma
4268 Maisel Farm Lane
Ellicott City, MD 21042

REPORT DATE: 02-Jul-13
REPORT 6375
USE & OCCUPANC

LAB#- ECL029360-001 SAMPLE ID- 4268 Maisel Farm Ln
LOCATION- Utility Sink WELL # HO 94-1546
DATE SAMPLED- 6/26/2013 TIME SAMPLED- 10:00 SAMPLER- H Bogner #4788HB
DATE RECEIVED- 6/26/2013 TIME RECEIVED- 11:45 CHLORINE- Non Detect
DELIVERED BY- H Bogner RECEIVED BY- VPS
COMMENTS-

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DATA FLAG
MICROBIOLOGY BY ENVIRO-CHEM LABORATORIES, MD CERT #192					
E. Coli	SM 9223	6/26/2013 17:00	VPS	Absent	PASS ✓
Total Coliform	SM 9223	6/26/2013 17:00	VPS	Absent	PASS ✓

Based on coliform bacteriological standards, at the time of sampling this water was **SAFE** for drinking water purposes.

WET CHEMISTRY BY ENVIRO-CHEM LABORATORIES, MD CERT #192

Nitrate (as N)	EPA 300.0	6/26/2013 19:56	JRB	3.4	mg/L	PASS ✓
pH, Lab	SM4500-H+B	6/26/2013 14:40	JRB	4.8	S.U.	
Sand	EPA 160.5	6/26/2013 13:00	VPS	< 0.5	ml/L/hr	✓
Turbidity	EPA 180.1	6/26/2013 14:40	JRB	< 0.2	S.U.	✓

Stephen E. Shelley
Stephen E. Shelley
LABORATORY DIRECTOR

Results OK
7/5/13 HS

Howard County Health Department
Bureau of Environmental Health
7178 Columbia Gateway Drive
Columbia, Maryland 21046
410-313-1771

INSPECTION NOTICE

Remarks Plumbing ok. Need to
inspect cap and connection
into house.

Came back 10/25 Approved
well cap & connection in
house

Approved **Disapproved**

Inspected by KW Date 10/25/12
10/24/12

Maura J. Rossman, M.D., Health Officer

March 6, 2023

Hong Tao Ma
4268 MAISEL FARM LN
ELLCOTT CITY MD 21042

RE: 4268 MAISEL FARM LN
ELLCOTT CITY MD 21042

Dear Hong Tao Ma:

A sample was collected on February 22, 2023 and submitted to the Department of Health & Mental Hygiene Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the future well water supply. **Gross Alpha** and **Gross Beta** measure the total alpha and beta particle activity in a water supply. These naturally occurring radioactive nuclides have been demonstrated to be present in a certain type of geologic formation known as the Baltimore Gneiss which exists in your area of development within the County.

Results from this screening (sample taken from the bathroom – no water treatments) revealed a **Gross Alpha** of 28.3 ± 3.7 picocuries/liter (pCi/L), while the **Gross Beta** level was 27.9 ± 2.9 pCi/L. The **Gross Alpha** result was above its **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below its targeted standard of 50 pCi/L (roughly equivalent to the **annual dose rate** of 4 millirems/year).

In addition, a second lab analysis revealed a **Gross Alpha** of 29.1 ± 3.9 picocuries/liter (pCi/L), while the **Gross Beta** level was 25.3 ± 2.9 pCi/L.

At the time of testing and with respect to the test result analysis, your well water supply does not meet EPA regulatory standards for **Gross Alpha** and shows a potential concern for **Gross Beta**. Given these initial readings, some additional testing to further evaluate Gross Alpha, Gross Beta and Radium 226/228 is advised. Both a **water softener** system and a point of use (POU) **reverse osmosis (R/O)** kitchen unit have been shown to be effective in reducing the levels of these contaminants. When further testing without these additional water treatments installed, **(long-term) Gross Alpha, (long-term) Gross Beta and Radium 226/228** tests are recommended to properly evaluate your well water supply. On the other hand, if you install or have a water softener and/or (POU) R/O kitchen unit on your water supply that has been recently serviced, a **pre-treatment Radium 226/228 and post-treatment (long term) Gross Alpha, (long term) Gross Beta and Radium 226/228** tests are recommended to further evaluate the well water supply before any treatment devices as well as the effectiveness of any installed treatment device(s).

A copy of the test results is enclosed for your information. Please call this office at 410-313-1773 if you have any further questions.

Sincerely,



Ramar Martin, Program Supervisor
Bureau of Environmental Health

Enclosure
cc: Property file



Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: [HowardCoHealthDep](https://twitter.com/HowardCoHealthDep)

Maura J. Rossman, M.D., Health Officer

May 8, 2013

Hong Tao Ma
4268 Maisel Farm Lane
Ellicott City, MD 21042

Re: 4268 Maisel Farm Lane
Ellicott City, MD 21042
Well Permit # HO-94-1546

Dear Hong Tao Ma:

This is to advise you that the septic system for the above referenced property has been installed and inspected. Final approval of the septic system was granted on **12/05/2011**.

The water sample submitted for testing on **October 1, 2013** was **free of coliform and E. coli bacteria** and was bacteriologically safe for drinking at the time of sampling.

FINAL CERTIFICATE OF POTABILITY

This certifies that all sampling requirements of **COMAR 26.04.04 "Well Regulations"** have been met for the water supply system installed under permit # **HO-94-1546**. The well owner accepts his responsibilities under **COMAR 26.04.04.10**.

Date of Final Sampling: October 1, 2013

Approving Authority,

A handwritten signature in black ink, appearing to read 'R. Martin'.

**Ramar Martin, Program Supervisor
Community Hygiene Program**

Water Sample Dates on File:

June 26, 2013 (Bacteria, Nitrate, Turbidity, Sand- Private Lab)

October 20, 2008 (Bacteria, Nitrate- MD State Lab)

Attention
Hold
FCOP

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
201 W. Preston Street
P.O. BOX 2355, Baltimore MD 21203
Robert A. Myers, Ph. D., Director

Category Code 17 Lab. No. _____
Bacteriological Drinking Water Report

Field Record

Sample Type: Community Non-Community Non-Transient Private Check Sample C.O.P.

Source Howard Co. MD
Location 4259 Mount Farm RD
Iced: Yes No a.m. p.m.
Treated: Yes No Time Collected 1 p.m.
Collector# 249401 Bottle No. HC4268
Collector Name posniens County Howard County

Test Requested:
Quantitative P/A MTF SPC

County 12 Plant No. Sampling Station Date Collected 10/1/13
pH 7.0 Res. Cl: Free 000 Total 00 Card#

LABORATORY RECORD

Thiosulfate: Pres. Absent Undetermined

PRESUMPTIVE MTF • P/A TEST*				CONFIRMED • P/A TEST			
ml. of Sample	10 ml.	100 ml.	ml. of Sample	10 ml.	100 ml.	No. of +	
Gas 24 Hours			Coliforms +				
Gas 48 hours			Fecal + Coliforms +				

P/A TEST (CONFIRMED) ***

ml. of Sample	100 ml.
Total Coliforms	
E. coli	

QUANTITATIVE TEST (CONFIRMED) ***

100 ml. of Sample	No. of Pos	MPN
Total Coliforms	0	0
E. coli	0	0

SPC Plate: A B
24.48.72 hrs/Heterotrophic Plate Count (HPC/ml)[§] =

Temp. Control 1 °C

- * using Lactyl Sulfate Trypticase Broth at 35° C incubation
- † using Brilliant Green Lactose Bile Broth at 35° C incubation
- ‡ using EC Broth at 44.5° incubation
- § using Plate Count Agar at 35° C incubation
- *** using OPG-MUG at 35° C incubation

Remarks _____
Date & Hour _____
Rec'd _____
Exam _____
Rept. _____

RECEIVED

OCT 8 2013

Laboratory
HOWARD COUNTY HEALTH DEPT.
E. SHORE REG.
COMMUNITY HYGIENE PROGRAM

CENTRAL W. MD REG.

Bacteriologist