

C1 0222

SEQUENCE NO.
(MDE USE ONLY)STATE OF MARYLAND
WELL COMPLETION REPORT
FILL IN THIS FORM COMPLETELY
PLEASE TYPETHIS REPORT MUST BE SUBMITTED WITHIN
45 DAYS AFTER WELL IS COMPLETED.COUNTY
NUMBER 13 A5174221 2 3 6
(THIS NUMBER IS TO BE PUNCHED
IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY

DATE Received

MM DO YY
8 13

DATE WELL COMPLETED

MM DO YY
08 13 06

Depth of Well

22 200 26
(TO NEAREST FOOT)11/22/06
O.K. BBPERMIT NO.
FROM "PERMIT TO DRILL WELL"40 95 0416
28 29 30 31 32 33 34 35 36 37

OWNER

STREET OR RFD

SUBDIVISION

De Francis
Holly Creek Lane
Walnut Grove

first name

TOWN

Ellicott City

SECTION

LOT 66

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR
COLOR, DEPTH, THICKNESS AND IF WATER BEARINGDESCRIPTION (Use
additional sheets if needed)

FEET

FROM

TO

check
if water
bearing

Top Soil	0	1	
Clay	1	6	
Sandy	6	18	
Sand Stone	18	35	✓
MICKA	35	140	
Sand Stone	140	145	✓
MICKA	145	200	

GROUTING RECORD

WELL HAS BEEN GROUTED
(Circle Appropriate Box)yes no
Y N
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 45 46 9 NO. OF POUNDS 45 46 500

GALLONS OF WATER 54

DEPTH OF GROUT SEAL (to nearest foot)

from 48 TOP 52 ft. to 54 BOTTOM 58 ft.
(enter 0 if from surface)casing
types
insert
appropriate
code
below

CASING RECORD

ST CO
STEEL CONCRETE
PL OT
PLASTIC OTHERMAIN CASING TYPE PL
Nominal diameter top (main) casing (nearest inch) 6
Total depth of main casing (nearest foot) 28
60 61 63 64 66 70OTHER CASING (if used)
diameter inch depth (feet) from to
EACH CASINGscreen type or open hole
(insert appropriate code below)
ST BR HO
STEEL BRASS OPEN HOLE
PL PL OT
PLASTIC OTHER

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes no
Y N

CIRCLE APPROPRIATE LETTER

A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
E ELECTRIC LOG OBTAINED
P TEST WELL CONVERTED TO PRODUCTION WELLI 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, AND THAT THE INFORMATION PRESENTED
HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY
KNOWLEDGE.

DRILLERS LIC. NO. 1 M SD 112

DRILLERS SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. D

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

DEPTH (nearest ft.)

C 2
1 2
E A C H S C R E E N
8 9 11 15 17 21
23 24 26 30 32 36
38 39 41 45 47 51
SLOT SIZE 1 2 3DIAMETER OF SCREEN (NEAREST INCH)
58 60
from toGRAVEL PACK IF WELL DRILLED WAS FLOWING WELL
INSERT F IN BOX 68MDE USE ONLY
(NOT TO BE FILLED IN BY DRILLER)
T (E.R.O.S.) W Q70 72 74 75 76
TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

1 2

PUMPING TEST

HOURS PUMPED (nearest hour) 3

PUMPING RATE (gal. per min.) 10

METHOD USED TO MEASURE PUMPING RATE Bucket

WATER LEVEL (distance from land surface)

BEFORE PUMPING 20 ft.

WHEN PUMPING 32 ft.

TYPE OF PUMP USED (for test)

A air P piston T turbine
C centrifugal R rotary O (describe below)
J jet S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION
MUST BE COMPLETED FOR ALL WELLS.TYPE OF PUMP INSTALLED
PLACE (A,C,J,P,R,S,T,O)
IN BOX 29.CAPACITY:
GALLONS PER MINUTE (to nearest gallon) 31 35

PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH (nearest ft.) 43 47

CASING HEIGHT (circle appropriate box and enter casing height)

+ above
- below
LAND SURFACE 2 (nearest foot)

LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS
BUILDING, SEPTIC TANKS, AND /OR
LANDMARKS AND INDICATE NOT LESS
THAN TWO DISTANCES
(MEASUREMENTS TO WELL)Prop Line
75
25
well

B 1	0940	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL <i>W523734</i> please type	STATE PERMIT NUMBER HO-95-0416 <i>fill in this form completely</i>
Date Received (APA) <i>11/30/05</i>		OWNER INFORMATION		
8 MM DD YY 13		15 Last Name Owner First Name 34		
36 Street or RFD 55		57 Town 70 State 72 Zip 76		
DRILLER INFORMATION		LOCATION OF WELL		
Driller's Name <i>Ralph E. MAYNE</i> M S D <i>117</i>		B 3 <i>Howard</i> 8 COUNTY 21		
Firm Name <i>Ralph E. MAYNE INC</i>		23 SUBDIVISION <i>Walnut GROVE</i> 42		
Address <i>17024 Hardy Rd MT. Airy MD 21771</i>		SECTION <i>44</i> 46 LOT <i>66</i> 48 50		
Signature <i>Ralph E. Mayne</i> Date <i>11-20-05</i>		52 NEAREST TOWN <i>Clarksville</i> 71		
B 2 WELL INFORMATION		B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)		
APPROX. PUMPING RATE (GAL. PER MIN.) <i>5</i>		1 2		
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) <i>500</i>		TOWN		
USE FOR WATER (CIRCLE APPROPRIATE BOX)		ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)		
<input checked="" type="radio"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION		11 NEAR WHAT ROAD <i>WATKINS Bridge Rd.</i> 30		
<input type="radio"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)		ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)		
<input type="radio"/> INDUSTRIAL, COMMERCIAL, DEWATERING		34 <i>200</i> 37 DISTANCE FROM ROAD ENTER FT OR MI 38 39		
<input type="radio"/> PUBLIC WATER SUPPLY WELL		TAX MAP <i>28</i> BLK: <i>18</i> PARCEL <i>74</i>		
<input type="radio"/> TEST, OBSERVATION, MONITORING		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL		
<input type="radio"/> GEO-THERMAL		<i>Howard</i> (13) <i>A517422</i>		
APPROXIMATE DEPTH OF WELL <i>150'</i> FEET		COUNTY NAME COUNTY NO.		
APPROXIMATE DIAMETER OF WELL <i>6"</i> NEAREST INCH		STATE SIGNATURE <i>Brian Baker</i> 41		
METHOD OF DRILLING (circle one)		DATE ISSUED <i>6/26/2006</i> CO SIGNATURE <i>Brian Baker</i> EXP. DATE <i>6/26/2007</i>		
<input checked="" type="radio"/> BORED (or Augered) JETTED Jetted & DRIVEN		43 MM DD YY 48 NORTH GRID <i>508 000</i> EAST GRID <i>815 000</i>		
<input type="radio"/> AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)		SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X		
<input type="radio"/> CABLE REVERSE-ROTARY DRIVE-POINT		SOURCES OF DRILLING WATER		
other		1. <i>Well</i>		
REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)		2.		
<input checked="" type="radio"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL		3.		
<input type="radio"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED		WRITE THE BOX NUMBER FROM THE MAP HERE		
<input type="radio"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS		E <i>815</i>		
<input type="radio"/> THIS WELL WILL DEEPEM AN EXISTING WELL		N <i>508</i>		
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		
Not to be filled in by driller (MDE OR COUNTY USE ONLY)				
APPROX. PERMIT NUMBER <i>H020025G006</i>				
PERMIT No. <i>HO-95-0416</i>				
SPECIAL CONDITIONS				

**HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 FAX: (410)313-2648**



FAXED
4-11-12

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: NATIONAL WATER SVC Telephone #: 301-854-1333
Address: P.O. Box 138
ASHTON, MD 20861

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

Licensed Well Pump Installer

Name (Print): DAVID RYCKE

License# P10145

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

Name of Property Owner: SETRIDGE Builders Telephone #: _____
Subdivision: WALNUT GROVE Lot #: 66 Well Tag #: HO-98-0416
Site Address: 124231 Watkins Bridge LA
CLARKSVILLE, MD 21029

Submersible Pump Data

Make: GRUNDFOSS
Model #: 1550807-180
Pump Capacity: 15 GPM
Well Yield: 10 GPM

Pitless Adapter

Make: CAMPBELL
Model #: PA 800
Depth: 48 (36" min)
NSF approved: YES

Well Cap and Electric Conduit

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

Depth of well encountered at time of pump installation: 120 (feet)

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

Torque arrestors or Cable guards are required - Must circle one CPS

Safety rope, if used, attached to inside of well casing with eye bolt N/A

Piping to house

Type: POLY
PSI: 160 (160 psi min)
Depth of supply line: 4' (36" min)

House Connection

PVC sleeved to undisturbed soil at wall penetration: YES
Approximate length of sleeve: 5'
Sleeve caulked and sealed properly: YES

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

date 4/11/12

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

Date Insp. Requested: _____

Date Insp. Approved: _____

Inspection Data: Pitless adapter and 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 installed inside of well 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 _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 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: _____ Telephone #: _____
Address: _____

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

Name (Print): _____ License# _____

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

Name of Property Owner: _____ Telephone #: _____
Subdivision: _____ Lot #: _____ Well Tag #: HO - 95 - 0416
Site Address: 12431 Watkins Bridge Ln.

Submersible Pump Data

Make: _____
Model #: _____
Pump Capacity _____ GPM
Well Yield: _____ GPM

Pitless Adapter

Make: _____
Model#: _____
Depth: _____ (36" min)
NSF approved: _____

Well Cap and Electric Conduit

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

Depth of well encountered at time of pump installation: _____ (feet)
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Torque arrestors or Cable guards are required - Must circle one

Safety rope, if used, attached to inside of well casing with eye bolt _____

Piping to house

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

House Connection

PVC sleeved to undisturbed soil at wall penetration: _____
Approximate length of sleeve: _____
Sleeve caulked and 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.

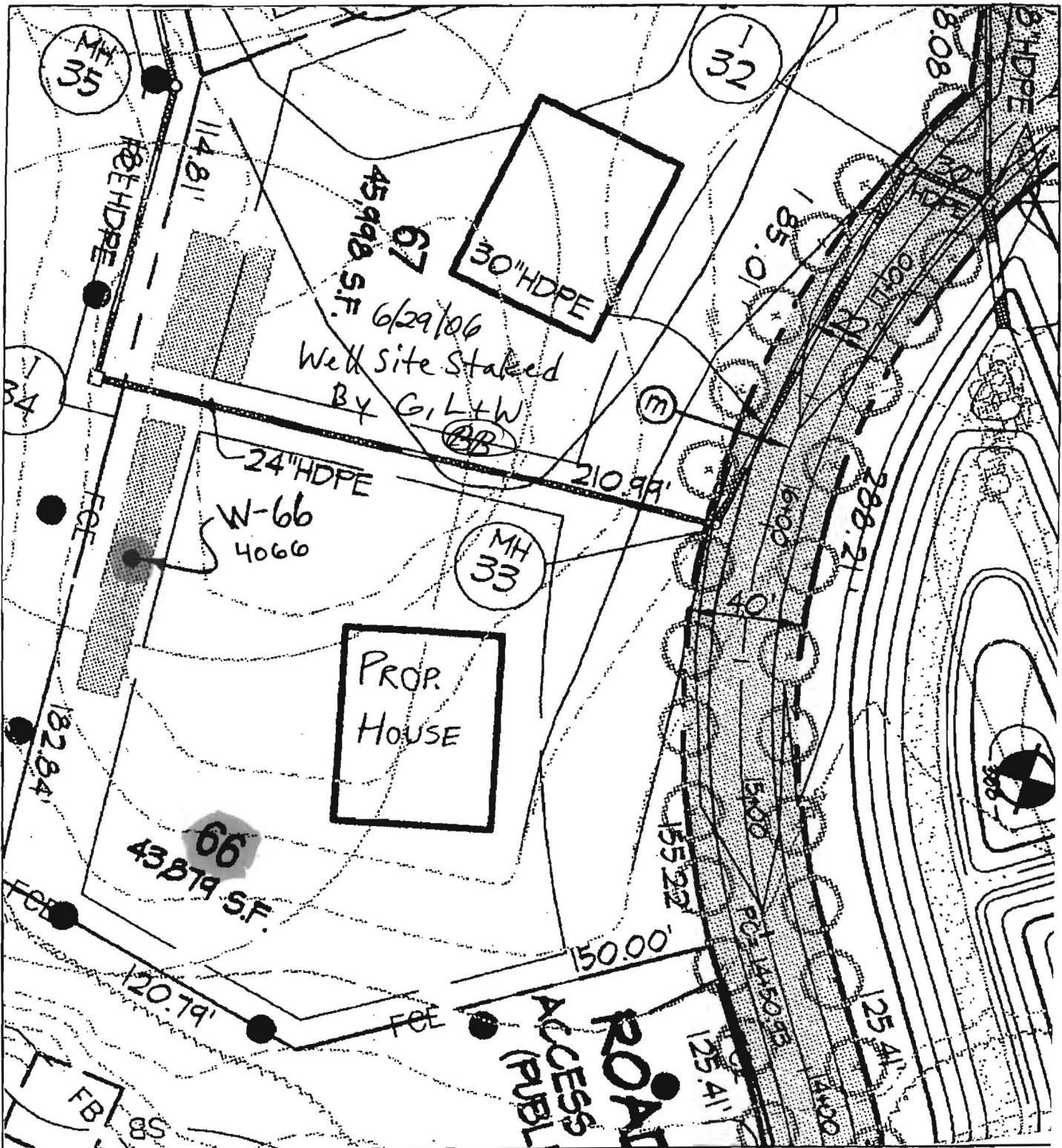
Signature of company representative responsible for installation _____ date _____

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

Date Insp. Requested: _____ Date Insp. Approved: 3/30/2012 BG

Inspection Data: Pitless adapter and 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 installed inside of well 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

✓
✓
✓
✓
✓
Under Footer
✓



1"=50'



HERITAGE
Land Development

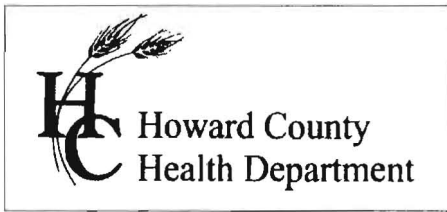
WELL LOCATION EXHIBIT - LOT 66
WALNUT GROVE

TAX MAP 82B ZONED RC-360
5TH ELECTION DISTRICT
SCALE 1"=50'

PARCEL 74
HOWARD COUNTY, MARYLAND
DATED OCTOBER 23, 2005

LAND PLANNING ♦ DEVELOPMENT ♦ MARKETING ♦ ZONING ♦ VALUATION

3080 WASHINGTON (RT. 97), SUITE 200, BLENHEIM, MD 21776 PHONE: 410-488-7000



7178 Columbia Gateway Dr. • Columbia, MD 21046

(410) 313-2640

Fax (410) 313-2648

TDD (410) 313-2323

Toll Free 1-866-313-6300

website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

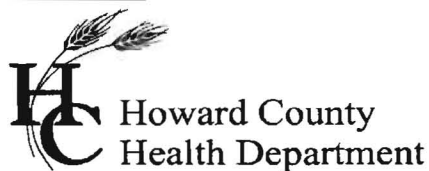
ATTENTION WELL DRILLERS!!!

When submitting a well application for a new or replacement well, please indicate one of the following:

- ☒ The well site has been staked by Gutschick, Little & Weber
on 11/10/2005
- ☐ _____ will call the Health Department
for a time to meet in the field to verify a well location.
- ☒ Site plan for new well is attached to well permit application.

Please attach this sheet when submitting your green application.
This should help improve communication allowing a more timely
service for our citizens.

KN



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

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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – December 19th, 2012

June 19th, 2012

Homeowner
12431 Watkins Bridge Lane
Clarksville, MD 21029

**RE: Walnut Grove, Lot 66
12431 Watkins Bridge Ln.
Building Permit: B11002141
Well Permit: HO-95-0416**

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 **6/19/2012**. Final approval of the well line connection to the dwelling was granted on **3/30/2012**. The well construction was completed on **8/17/2006**. Water samples were collected on **5/10/2012, 5/9/2012 & 4/30/2012**.

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.

Gross Alpha and Beta samples were also collected on **5/10/2012**. Results showed a Gross Alpha level of **2.1 ± 0.9 pCi/L** and Gross Beta level of **2.5 ± 0.9 pCi/L**. The Gross Alpha was below the maximum contaminant level (MCL) of 15 pCi/L and the Gross Beta was below the target level of 50pCi/L (roughly equivalent to the annual dose rate of 4 millirems per year). At the time of testing and with respect to these parameters, the well water is safe for all uses.

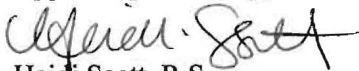
This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-95-0416. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

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 certified water quality 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,



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

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



TRACE LABORATORIES, INC

5 North Park Drive

Hunt Valley, MD 21030 USA

Telephone: 410/584-9099 / Fax: 410/584-9117

Website: www.tracelabs.com / Email: info@tracelabs.com

Maryland State Certified Laboratory #318

CERTIFICATE OF ANALYSIS

Requester:

James H. Selfridge Builders Inc.
4781 Ten Oaks Road
Dayton, Maryland 21036

S/O Number: 85178

Report Date: May 10, 2012

Retest #1

Property Sampled: 12431 Watkins Bridge Lane, 21029
Sample Location: Pressure Tank Tap
Residual Chlorine: <0.1 mg/L

Building Permit #: B11002141
Sampler ID #: 0765AR
Samples Iced: Yes

County: Howard
Map: 28

Subdivision: Walnut Grove
Parcel: 74

Lot#: 66

Date/Time Collected in Field: May 9, 2012 @ 1:20 pm
Date/Time Received in Lab: May 9, 2012 @ 3:40 pm

Well Tag #: HO-95-0416
Well Condition: 2-Piece Cap, Satisfactory

Water Treatment/Conditioning: None

PARAMETER	METHOD	MCL	RESULT	PASS/FAIL
Total Coliform	SM 9223B	Absent	Absent	Pass
<i>E. coli</i>	SM 9223B	Absent	Absent	Pass

The results in this report relate only to those items tested. If any additional information or clarification of this report is required, please contact us. This test report shall not be reproduced except in full without the written approval of Trace Laboratories Inc.

OK-
HS 5-11-12

Katherine C. Higgs
Katherine C. Higgs
Manager – Drinking Water Testing



TRACE LABORATORIES, INC

5 North Park Drive

Hunt Valley, MD 21030 USA

Telephone: 410/584-9099 / Fax: 410/584-9117

Website: www.trace labs.com / Email: info@trace labs.com

Maryland State Certified Laboratory #318

CERTIFICATE OF ANALYSIS

Requester:

James H. Selfridge Builders Inc.
4781 Ten Oaks Road
Dayton, Maryland 21036

S/O Number: 85094

Report Date: May 1, 2012

Potability Testing

Property Sampled: 12431 Watkins Bridge Lane, 21029
Sample Location: Pressure Tank Tap ✓
Residual Chlorine: <0.1 mg/L ✓

Building Permit #: B11002141
Sampler ID #: 0765AR
Samples Iced: Yes

County: Howard
Map: 28

Subdivision: Walnut Grove
Parcel: 74

Lot#: 66

Date/Time Collected in Field: April 30, 2012 @ 10:55 am
Date/Time Received in Lab: April 30, 2012 @ 3:05 pm

Well Tag #: HO-95-0416
Well Condition: 2-Piece Cap, Satisfactory

Water Treatment/Conditioning: None

PARAMETER	METHOD	MCL/*SMCL	RESULT	PASS/FAIL
Total Coliform	SM 9223B	Absent	PRESENT	FAIL
<i>E. coli</i>	SM 9223B	Absent	Absent	Pass
Nitrate	SM 4500D	10 mg/L as N	5.4 mg/L as N	Pass
Turbidity	EPA 180.1	10 NTU	2.7 NTU	Pass
pH	EPA 150.1	*6.5-8.5 Units	7.8 Units	***
Sand		Absent	Absent	Pass

The results in this report relate only to those items tested. If any additional information or clarification of this report is required, please contact us. This test report shall not be reproduced except in full without the written approval of Trace Laboratories Inc.

Fail Bacteriology
others 'ok'
RB 5/2/2012

Katherine C. Higgs
Katherine C. Higgs
Manager – Drinking Water Testing

MCL: Maximum Contamination Level, an enforceable level established by the EPA

*SMCL: Secondary Maximum Contamination Level, a level recommended by the EPA

***A non-enforceable parameter that may cause cosmetic effects or aesthetic effects (such as taste, color or odor) in drinking water.



TRACE LABORATORIES, INC

5 North Park Drive

Hunt Valley, MD 21030 USA

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Website: www.tracelabs.com / Email: info@tracelabs.com

Maryland State Certified Laboratory #318

CERTIFICATE OF ANALYSIS

Requester:

James H. Selfridge Builders Inc.
4781 Ten Oaks Road
Dayton, Maryland 21036

S/O Number: 85094

Report Date: May 15, 2012

Radium Test

Property Sampled: 12431 Watkins Bridge Lane, 21029
Sample Location: Pressure Tank Tap
Residual Chlorine: <0.1 mg/L

Building Permit #: B11002141
Sampler ID #: 0765AR
Samples Iced: Yes

County: Howard
Map: 28

Subdivision: Walnut Grove
Parcel: 74

Lot#: 66

Date/Time Collected in Field: May 10, 2012 @ 12:10 pm
Date/Time Received in Lab: May 10, 2012 @ 1:35 pm

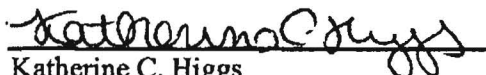
Well Tag #: HO-95-0416
Well Condition: 2-Piece Cap, Satisfactory

Water Treatment/Conditioning: None

PARAMETER	METHOD	MDL (pCi/L)	MCL* (pCi/L)	RESULT (pCi/L)	ACCEPTABILITY
Gross Alpha	EPA 900.0	1.1	15	2.1 ± 0.9	Acceptable
Gross Beta	EPA 900.0	1.4	50	2.5 ± 0.9	Acceptable

*Note: There are no established limits set forth by the EPA for radionuclide particles in private well water. The limits for public water are instead provided as MCLs in this report and the acceptability of this sample is based on these requirements. Gross Alpha levels under 5 pCi/L are acceptable. Levels between 5 and 15 pCi/L are considered moderate, and levels greater than 15 pCi/L are considered high. When levels are moderate or high, treatment or further testing is recommended and in certain cases may be required by the health department.

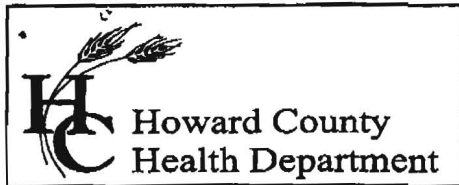
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Katherine C. Higgs
Manager – Drinking Water Testing

MDL: Method Detection Limit

MCL: Maximum Contamination Level, an enforceable level established by the EPA

Analysis completed by Laboratory #278



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

Penny E. Borenstein, M.D., M.P.H., Health Officer

October 5, 2006

Walnut Grove, LLC
10705 Charter Dr.
Suite 320
Columbia, Maryland 21044

RE: Walnut Grove
Well Tag: HO-95-0416

To Whom It May Concern:

A sample was collected during a yield test on August 24, 2006 and submitted to Department of Health and 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 revealed a **Gross Alpha** of 9.0 ± 2.0 picocuries/liter (pCi/L); while the **Gross Beta** level was 7.0 ± 2.0 pCi/L. The **Gross Alpha** result was below its maximum contaminant level (MCL) of 15 pCi/L, while the **Gross Beta** level was below its target value of 50 pCi/L (roughly equivalent to the annual dose rate of 4 millirems/year). At the time of testing and with respect to these parameters, the future well water supply appears safe for all uses. No additional testing for these parameters will be required to secure the future Use & Occupancy. However, other standard (potability) testing will still be necessary.

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 or concerns.

Sincerely,


Bert Nixon, Deputy Director
Bureau of Environmental Health

cc: Eric Dougherty, MDE Water Mgmt., Groundwater
Well & Septic property file

Send Report To:

Howard County
Env. Health

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
RADIATION LABORATORY

201 W. Preston Street, Baltimore, Maryland 21201

John M. DeBoy, Dr. P.H., Director

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: WAGG KW 0416 No. B: _____ Field Blank Bottle No. A: _____ No. B: _____

Plant/Site Name: Walnut Grove County: Howard

Sample Source: ~~Walnut Grove~~ Holly Creek Lane Location: Well # 40-95-0416
(well no., lab sink, sample tap, etc.)

County: ☒ ☒ Plant No. ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

CHECK (one per box)

Drinking Water ☒
Landfill ☐
Stream ☐
Other ☐

Community ☐
Non-community ☐
Private ☒
Other ☐

Source (raw water) ☒
Distribution (treated) ☐
MCL ☐

Emergency ☐
Routine ☒
Recheck ☐
Special ☐

Collector: Kevin Wolf

Telephone No: 410-713-2645

Date Collected: 8/24/06

Time Collected: 10:30 a.m. _____ p.m.

Nitric Acid Preserved: Yes ☒ No ☐

Iced: Yes ☐ No ☒

Submitters Code: ☐ ☐ Federal Project: ☐ Field Data: _____

Remarks: Sample taken few days after yield test pH _____ Chlorine _____

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000			
✓	Gross Beta	4100			
	Radon-222 Bottle A	4004			
	Radon-222 Bottle B	4004			
	Field Blank A	4004			
	Field Blank B	4004			
	Tritium				
	Ra - 226	4020			
	Ra - 228	4030			
	Total Uranium	4006			

Date Received: _____ / _____ / _____

Supervisor: _____