

C1 8783 SEQUENCE NO. (MDE USE ONLY) STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED. COUNTY NUMBER 13 A517422 PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-0611

ST/CO USE ONLY DATE Received MM DD YY DATE WELL COMPLETED MM DD YY 04 2007 Depth of Well 220 (TO NEAREST FOOT) OWNER DeFrancis STREET OR RFD Sweet Meadow Lane TOWN Clarksville SUBDIVISION Walnut Grove SECTION LOT 75

WELL LOG Not required for driven wells STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC NO. OF BAGS 59 NO. OF POUNDS 5546 GALLONS OF WATER 354 DEPTH OF GROUT SEAL (to nearest foot) 67

PUMPING TEST HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 20 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 33 ft. WHEN PUMPING 38 ft. TYPE OF PUMP USED (for test) C centrifugal S submersible

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED YES Y NO 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 WELL 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, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE. DRILLERS LIC. NO. MS D024 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.) 67 220 SCREEN RECORD ST STEEL BR BRASS PL PLASTIC HO OPEN HOLE OT OTHER SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) 56 60 GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES 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 LAND SURFACE 2 (nearest foot) - below 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) Sweet meadows Lane

B 1 0526

SEQUENCE NO.
(MDE USE ONLY)STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

Ho-95-0611
fill in this form completely

please type

Date Received (APA)

OWNER INFORMATION

8 MM DD YY 13

Landmarking Consultants
 15 Last Name Owner First Name 34
 36 3060 RT 97
 Glenwood MD 21771
 57 Town 70 State 72 Zip 76

DRILLER INFORMATION

Ralph E. Mayne M S D 117
 Driller's Name 76 License No. 81
 Ralph E. Mayne INC
 Firm Name
 17024 Hardy Rd Mt. Airy MD 21771
 Address
 Signature Date 11-11-06

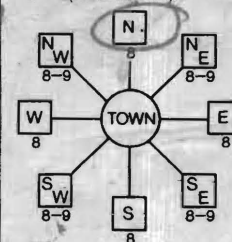
B 3

LOCATION OF WELL

Howard
 8 COUNTY 21
 Walnut Grove
 23 SUBDIVISION 42
 SECTION 44 46 LOT 48 50
 CLARKSVILLE
 52 NEAREST TOWN 71

MILES FROM TOWN (enter 0 if in town) 2 M 1

B 4

DIRECTION OF WELL FROM
TOWN (CIRCLE BOX)Sweet Meadow Ln
 11 NEAR WHAT ROAD 30ON WHICH SIDE OF ROAD
(CIRCLE APPROPRIATE BOX)

DISTANCE FROM ROAD

ENTER FT OR MI 38 39

TAX MAP: 28 BLK: 18 PARCEL 74

B 2

WELL INFORMATION

APPROX. PUMPING RATE
(GAL. PER MIN.) 5
 8 500 12
 AVERAGE DAILY QUANTITY NEEDED
(GAL. PER DAY) 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- ☒ DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
☐ FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
☐ INDUSTRIAL, COMMERCIAL, DEWATERING
☐ PUBLIC WATER SUPPLY WELL
☐ TEST, OBSERVATION, MONITORING
☐ GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVALHoward (13) A517422
 COUNTY NAME COUNTY NO

STATE SIGNATURE INSERT S 41

DATE ISSUED 12/19/2006 Brian Baber 12/19/2007

43 MM DD YY 48 CO SIGNATURE EXP DATE
 NORTH GRID 508 000 EAST GRID 814 000
 50 55 57 63

APPROXIMATE DEPTH OF WELL 150 FEET
 24 28

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN
☒ AIR-ROTARY ☐ AIR-PERCussion ☐ ROTARY (Hydraulic Rotary)
☐ CABLE ☐ Reverse-ROTary ☐ Drive-POINT
 other

REPLACEMENT OR DEEPEINED WELLS
(CIRCLE APPROPRIATE BOX)

- ☒ THIS WELL WILL NOT REPLACE AN EXISTING WELL.
☐ THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
☐ 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 DEEPEIN AN EXISTING WELL

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

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

APPROP. PERMIT NUMBER H02005G-006

PERMIT No. HO-95-0611

SPECIAL CONDITIONS

NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Health Dept. Needs to Get Water Sample During Yield Test

Well Permit No. HO - 95-0611
Location of property (road) Sweet Meadow Lane
Subdivision Walnut Grove Lot 25 Block Plat Sec.
Well Driller Joseph Mayne Owner DeFrancis

Static water level (S.W.L.) below M.P. 33

Pumping rate 20 g/min

Total time 15 min to reach pumping water level 38 ft. below M.P.

HD-224

**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: NATIONAL WATER SERVICE Telephone #: 301-854-1333
Address: PO Box 138
Ashton, MD 20861

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

Name (Print): DAVID RYCKE

Licensed Well Pump Installer

License # P10145

*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: Selfridge Homes

Telephone #:

Subdivision: WALNUT GROVE

Lot #: 75 Well Tag #: HO - -

Site Address: 5222 Sweet Meadow Ln
CLARKSVILLE, MD 21029

Submersible Pump Data

Make: GRUNDOS

Model #: WSE-10-250

Pump Capacity 15 GPM

Well Yield: 20 GPM

Depth of well encountered at time of pump installation: 20 (feet)

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

Pitless Adapter

Make: BTI

Model #: PA-100

Depth: 48 (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.: ☒

Conduit secured to well cap: ☒

Piping to house

Type: POLY

PSI: 160 (160 psi min)

Depth of supply line: 40 (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: ☒

Approximate length of sleeve: 5'

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

5/14/09

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

Date Insp. Requested:

Date Insp. Approved: 10/27/09

Inspector: BB

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 seen 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



Howard County
Health Department

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

October 27, 2009

Homeowner
5222 Sweet Meadow Lane
Clarksville, MD 21029

RE: Walnut Grove, Lot 75
5222 Sweet Meadow Lane
Clarksville, MD 21029
BP # B08002515
Well Tag: HO-95-0611

Dear Sirs:

This is to advise that the septic house connection and grinder pump installation for the referenced property has been installed and inspected. **Final approval was granted on 10/27/2009. Final approval of the well line connection to the dwelling was approved on 10/27/2009.**

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. The water sample results were found to be in compliance with COMAR water quality standards. Enclosed with this certificate is a copy of the septic permit and the as-built along with information on your well and how to keep your water supply safe.

Enclosed with this certificate is a copy of the septic permit and the as-built along with important information regarding the use and maintenance of your septic system. Please read through carefully and thoroughly. Any questions regarding your well and/or septic, please call this office for guidance 410-313-1771.

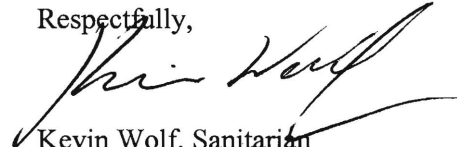
INTERIM CERTIFICATE OF POTABILITY

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-95-0611. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies. Based upon satisfactory investigation and evaluation, the Howard County Health Department, as authorized by the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.

This certificate may become final upon completion of the second bacteriological test, which is to be taken by the county health department within six months of receipt of this letter. **Please contact (410) 313-1773 to schedule a final water sample appointment. Currently, there is no charge for this final sampling.**

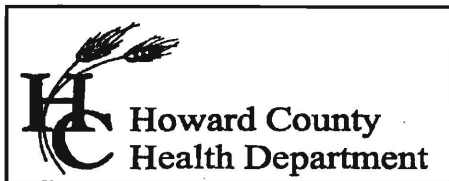
Date of Water Sample: 09/03/2009
Date of Well Completion: 03/14/2007

Respectfully,



Kevin Wolf, Sanitarian
Well and Septic Program

cc: Building Inspectors Office
Community Environmental Health
File



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

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

May 10, 2007

Walnut Grove, LLC
10705 Charter Drive
Suite 320
Columbia, Maryland 21044

RE: Walnut Grove Subdivision, Lot 75
Well Tag: HO - 95 - 0611

To Whom It May Concern:

A sample was collected during a yield test on March 13, 2007 and submitted to GPL Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the future well water supply. **Gross Alpha** and **Gross Beta** (GAGB), 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 1.4 ± 0.7 picocuries/liter (pCi/L); while the **Gross Beta** level was 3.0 ± 0.9 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 millirem/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



TRACE LABORATORIES, INC
A Methode Electronics, Inc. Company
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
Attn: Bob
4781 Ten Oaks Road
Dayton, Maryland 21036

S/O Number: 73951
Report Date: September 4, 2009

Property Sampled: 5222 Sweet Meadow Lane

County: Howard
Subdivision: Walnut Grove
Lot #: 75
Building Permit #: B08002515
Tax Map #: 28
Parcel #: 74

Date/Time Collected: September 3, 2009 at 10:29 am
Date/Time Received: September 3, 2009 at 3:55 pm

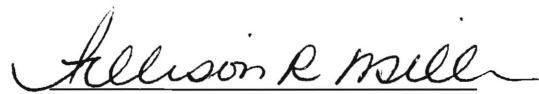
Sample Location: Pressure Tank
Sampler ID: 5745KC

Samples Iced: Yes
Residual Cl₂ <0.1 mg/L: Yes

Well Tag Number: HO-95-0611
Well Condition: 2-Piece Cap
1 Bolt Loose
Cap Tight

Water Conditioning/Treatment: Neutralizer, Softener, Sediment Filter

PARAMETER	RESULT	METHOD	MCL/*SMCL	
Nitrate	5.9 mg/L as N	SM 4500D	10 mg/L as N	Pass
Turbidity	1.3 NTU	EPA 180.1	10 NTU	Pass
pH	7.7 Units	EPA 150.1	*6.5-8.5 Units	***
Sand	Negative		Negative	
Total Coliform	Absent	SM 9223B	Absent	Pass
E.coli	Absent	SM 9223B	Absent	Pass


Allison R. Milburn
Manager-Drinking Water Testing

MCL=Maximum Contamination Level

*SMCL=Secondary Maximum Contamination Level

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

Send Report To:

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

5/10

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: WB 75 B13950611 No. B: _____ Field Blank Bottle No. A: _____ No. B: _____

Plant/Site Name: Walnut Grove, Lot #75 County: Howard

Sample Source: _____ Location: H0-95-0611
(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: Brian Baker Telephone No: 413-313-2640

Date Collected: 3/13/07 Time Collected: _____ a.m. _____ p.m.

Nitric Acid Preserved: Yes ☐ No ☐ Iced: Yes ☐ No ☒

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

Remarks: sample collected during yield test pH _____ Chlorine _____

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000	<u>713105-007</u>	<u>1.4 ± 0.7</u>	
✓	Gross Beta	4100		<u>3.0 ± 0.9</u>	
	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: _____

Analytical Summary Report

Client Name:	Howard County Health Department	Client Sample ID:	WG75BB950611
Receipt Date/Time:	3/15/2007	Lab Sample ID:	703105-007-007-1/1
Prepared Date/Time:	3/16/2007	Sample Matrix:	WATER
Analysis Date/Time:	3/19/2007 3:46:00 PM	Analytical Method:	ALPHA/BETA BY METHOD 900.0

Isotope	Result	Uncertainty 2σ	MDA	Q
Gross Alpha	1.37 pCi/L	± 0.7 pCi/L	0.88 pCi/L	
Gross Beta	2.9 pCi/L	± 0.88 pCi/L	1.55 pCi/L	