C 1 8603	SEQUENCE NO. (MDE USE ONLY)	WELL C	OMPLETION R	EPORT	45 DAYS AFT	T MUST BE SUBMITTER WELL IS COMP	PLETED.
IN COLS. 3-6 ON ALL CARDS) ST/CO USE ONLY DATE Received MM DD YY 8 13	DATE WELL COMPL	ETED 77 20	Depth of 22 200 (TO NEAREST	26 DK	(50)	PER	MIT NO. TO DRILL WELL"
OWNER_ Benter	4		first name	V			
STREET OR RFD	16 Hours	Ect.		_ TOWN	200000000000000000000000000000000000000	me 3	
SUBDIVISIONWELL LO	G	6	SECTION	yes no		LOT	
Not required for dr		WELL HAS BEEN (Circle Appropriate		W N			
STATE THE KIND OF FORMATION COLOR, DEPTH, THICKNESS AN	S PENETRATED, THEIR D IF WATER BEARING		NG MATERIAL (Circle	44 44	HOUDE BUM	PUMPING TEST	3 /
DESCRIPTION (Use additional sheets if needed)	FEET check if water bearing	CEMENT CM	BENTONITE C	LAY BC	HOURS PUMI	PED (nearest hour)	8 9 00
Overburden	ROM TO bearing	NO. OF BAGS 46	NO. OF POUR	VDS LOCO	PUMPING RA	TE (gal. per min.)	11 15
Gray Rock	50 200	DEPTH OF GROUT	SEAL (to nearest fo	ot)	METHOD USE	MPING RATE Su	bmersible
		from 48 TOP	ft. to	OTTOM 58 ft.		L (distance from lan	
water at 74'		(1	enter 0 if from surface				37
		casing	CASING RECORD	IOIOI	BEFORE PUN	17	20 n.
		insert appropriate	SIEEL	CONCRETE	WHEN PUMP	ING 22	25 ft.
		code	PL	OIT	TYPE OF PUR	MP USED (for test)	
26	2	MAIN No	PLASTIC ominal diameter 7	otal depth	A air	P piston	T turbine
67,5,7,20		CASING to		main casing earest foot)	C centrifug	al R rotary	O other (describe
17,31,		PC	6	57	27	e7 10.23	below)
(0)		60 61	63 64 66	70	J jet	Submer	sible
		Ĉ.		pth (feet)	27	27	
		H C	inch from	to	DDU LED ING	PUMP INSTALLE	
		ŝ			(CIRCLE) (YE	STALLED PUMP S or NO)	YES NO
		Ğ —	- 1			NSTALLS PUMP, TH	
		or open hele	SCREEN RECORD		TYPE OF PUN	MP INSTALLED	<u>l</u>
		/ insert	ST BR STEEL BRASS	HO	PLACE (A,C,J IN BOX 29.	,P,H,S,1,O)	29
		(appropriate) code	BRONZE	HOLE	CAPACITY: GALLONS P	ER MINUTE _	
		below	PLASTIC	OTHER	(to nearest o	,	31 35
		C 2 C	DEPTH (nearest ft.)		PUMP HORS	3	37 41
NUMBER OF UNSUCCESSFUL	WELLS:	7 2	57	200	(nearest ft.)	JMN LENGTH -	
WELL HYDROFRACTURED	yes N	E 1 8 9 11	15 17	21	CASING HE	IGHT (circle appr	ropriate box
CIRCLE APPROPRIA		Ĉ ₂			+ above		casing height)
A WELL WAS ABANDONED WHEN THIS WELL WAS CO	AND SEALED	3 24 26 S	30 32	36	49	LAND SURF	(nearest)
E ELECTRIC LOG OBTAINED		C 3 R 36 39 41	45 47	51	below)	50 51 foot)
P TEST WELL CONVERTED TO	PRODUCTION	E SLOT SIZE 1	2 3	1000		CATION OF WELL O	
I HEREBY CERTIFY THAT THIS WELL H ACCORDANCE WITH COMAR 26.04.04 IN IN CONFORMANCE WITH ALL CONDITION	WELL CONSTRUCTION" AND	DIAMETER		EAREST	N BUILDIN	PERMANENT STRUC G, SEPTIC TANKS,	AND /OR
CAPTIONED PERMIT, AND THAT THE HEREIN IS ACCURATE AND COMPLE KNOWLEDGE.	INFORMATION PRESENTED	OF SCREEN 5	60	ICH)	THAN T	ARKS AND INDICATE NO DISTANCES	
11/1/	S D 1 6 2	fro	m to			REMENTS TO WELL	-)
DRILLERS LIC. NO. 1 M	5 D 1 0 2 1	GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL		1		er of the A	CEA!
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON A	PRI ICATION)	INSERT F IN BOX 68	68				
LIC. NO. 1 A	Un 766.		D IN BY DRILLER)			1 -	15-1
Day Ha	0	Т	(E.R.O.S.)	WQ		50	1 0
SITE SUPERVISOR (sign. of dri	ller or journeyman	70	72	74 75 76			710
responsible for sitework if differe		TELESCOPE CASING	LOG INDICATOR	OTHER DATA		Prop Lu	N &S
THE RESERVE OF THE PERSON NAMED IN			COLINTY				

DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION **FARMING (LIVESTOCK WATERING & AGRICULTURAL** IRRIGATION I INDUSTRIAL, COMMERICIAL, DEWATERING P PUBLIC WATER SUPPLY WELL T TEST, OBSERVATION, MONITORING GEO-THERMAL APPROXIMATE DEPTH OF WELL APPROXIMATE DIAMETER OF WELL METHOD OF DRILLING (circle one) BORED (or Augered) JETTED 30 AIR-ROTary ATR-PERcussion 37 CABLE REVerse-ROTary other REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX) N 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 S AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41 Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER

RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION

SPECIAL CONDITIONS

Date Received (APA)

Last Name

Driller's Name

Firm Name

Signature

2

Grayson Homes

DRILLER INFORMATION

Michael D. Isom

WELL INFORMATION

AVERAGE DAILY QUANTITY NEEDED

(GAL. PER MIN.)

Owner

HARR WELL DRILLING

12047 FALLS ROAD COCKEYSVILLE, MD 21030 410-252-4588

HOWARD COUNTY YIELD TEST REPORT

Date Test Performed: 3-02-07 Address: Union Chapel Rd

Owner Name: Grayson Homes

Well Depth: 200 Ft

Permit Number: HO - 95-0657 Subdivision: Belle Haven Est L#3

Election District:

Static Water Level: 37 F

3	7	F/t	
J	/	Ιt	

Time	Water Level	PSI Existing Pump	Pumping Rate Seconds to fill 5 gallon bucket	Calculated Flow-Gallons Per Minute
1130	37 ft		17 sec	17.64
1145	92		20	15.00
1200	92		20	15.00
1215	138		20	15.00
1230	138		20	15.00
1245	138		20	15.00
1300	138		20	15.00
1315	138		20	15.00
1330	138		20	15.00
1345	138		20	15.00
1400	138		20	15.00
1415	138		20	15.00
1430	138		20	15.00

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: Bluestream Services Intelephone #: 410795 0068
Address: 2298 Fin Kohler Rd
Glderabung MD 21784 (Must circle one Licensed Plumber) Licensed Well Driller Licensed Well Pump Installer License # and name of individual responsible for the field installation: Name (Print): <u>GARY SKOVROW</u> License# <u>5563</u>
*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: # Goodien Builders Telephone #: 410 997 7501

Subdivision: Bell HayEN Lot #: 3 Well Tag #: HO - 96-0657

Site Address: 15328 Sweet Bay Steet Submersible Pump Data
Make: Frank in Electric Make: CAMPBell
Model #: 77505542W Model #: PA80055 Well Cap and Electric Conduit Two piece watertight cap:_____ Model#: PA 800 55 Screened, vented well cap: Pump Capacity 7 GPM
Well Yield: GPM Depth: 10 (36" min) Cap secured to casing: Conduit min 18" B.G.: NSF approved: Depth of well encountered at time of pump installation: 200 (feet) Conduit secured to well cap: 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 House Connection Type: 1''

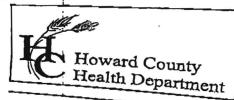
PVC sleeved to undisturbed soil at wall pener
PSI: 160 (160 psi min)

Depth of supply line: 40'(36" min)

Sleeve caulked and sealed properly: PVC sleeved to undisturbed soil at wall penetration: 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 For Health Department Use Only - Not to be completed by Installer Two piece cap installed and attached to casing securely Elec. conduit extends at least 18" below grade/attached to cap properly Elec. conduit extends at least 18" below graue/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



7178 Columbia Galeway Drive, Col. (410) 313-2640 Fax (410) 313-2323 Toll Free 1-866-373 Website: www.hchealth.org

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

TO ALL INTERESTED PARTIES

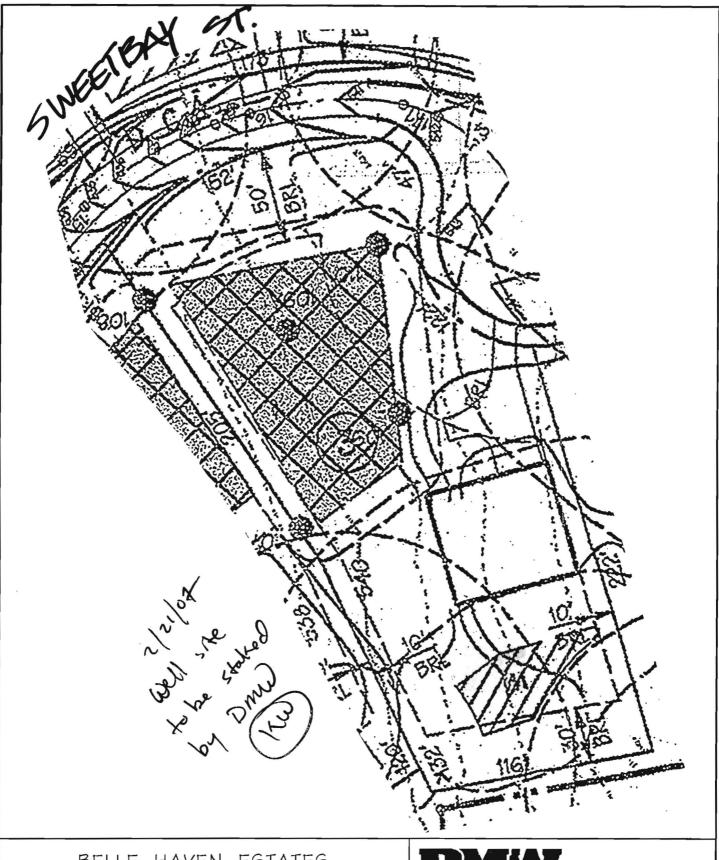
When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

Well Site Location: Belle Haven Estates Subdivision/Property Name	Lots 1-46 Union Chapel Road Road Name	<u>b</u>
The well site has been (professional land surveyor on 12 29 06	n staked by DMW Inc. Tor company employing professional land survey (date) and does not require a site	410 - 296 -3333 eyors) inspection.

The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

Revised 3/11/05



BELLE HAVEN ESTATES

LOT 3

Job No. 01067 | Scale: 1"=50' | Date: 12/26

Date: 12/26/06 | Drawn By: MDT

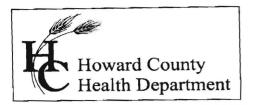


Daft-McCune·Walker, Inc.

200 East Pennsylvania Avenue Towson, Maryland 21286 (410) 296–3333 Fax 296–4705 A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals

N:\01067\01067F\Lot Wells'\FINAL\Lot03.dgn

Tue Feb 13 10:25:46 2007



Bureau of Environmental Health 7178 Gateway Drive Columbia, MD (410) 313-2640 Fax (410) 313-26

TDD (410) 313-2323

Columbia, MD 21046 Fax (410) 313-2648 Toll Free 1-866-313-6300

website: www.hchealth.org

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

INTERIM CERTIFICATE OF POTABILITY PERMANENT DEVIATION FOR NITRATES

Expiration Date - October 18th, 2012

April 18th, 2012

Homeowner 15328 Sweetbay Street Woodbine, MD 21797

RE:

Belle Haven Estates, Lot 3 15328 Sweetbay Street Building Permit: B10002989 Well Permit: HO-95-0657

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 1/25/2012. Final approval of the well line connection to the dwelling was granted on 2/3/2012. The well construction was completed on 3/1/2007. Water samples were collected on 3/19/2012 &4/16/2012.

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.

The untreated water sample collected on 3/19/2012 indicated a nitrate level of 10.5 mg/L. This exceeds the maximum contaminant limit of 10 mg/L set forth in COMAR 26.04.04.09. After installation of a nitrate removal device (kitchen tap reverse osmosis system), a post-treatment water sample was collected on 4/16/2012 and indicated a nitrate level of <1.0 mg/L.

This Department will grant a **permanent deviation** to the Interim Certificate of Potability on condition that the nitrate removal system effectively maintains a nitrate-nitrogen contaminant level of **10 mg/L or less.**

Furthermore, it will be necessary for you to comply with the following conditions:

- 1. The system must be properly operated and maintained continuously in accordance with the service contract for the life of the residence.
- 2. It is recommended that a Maryland certified water laboratory certified for nitrates analysis perform a yearly nitrate analysis.
- 3. If you decide to sell or rent your home in the future, you <u>must</u> make any potential buyer/tenant aware of this permanent deviation. A person who fails to make this disclosure is subject to the penalties set out in COMAR 26.04.04.12F Enforcement and Environment Article 9-1311, Annotated Code of Maryland.

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-95-0657. 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 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

S/O Number: 84614 Requester:

Goodier Builders 10705 Charter Drive, Suite 350

Columbia, Maryland 21044

Property Sampled: Sample Location:

Residual Chlorine:

15328 Sweetbay Street, 21797

Powder Room Tap

<0.1 mg/L

Building Permit #:

B10002989 Sampler ID #:

Samples Iced:

0765AR

Yes

Report Date: March 20, 2012

County: Map:

Howard

14

Subdivision:

Parcel:

Belle Haven Estates

Lot #:

3

Date/Time Collected in Field: Date/Time Received in Lab:

March 19, 2012 @ 10:35 am March 19, 2012 @ 1:20 pm

HO-95-0657

Well Tag #: Well Condition:

2-Piece Cap, Satisfactory

Water Treatment/Conditioning:

None

PARAMETER	METHOD	MCL/*SMCL	RESULT	PASS/FAIL
Total Coliform	SM 9223B	Absent	Absent .	Pass
E. coli	SM 9223B	Absent	Absent	Pass
Nitrate	SM 4500D	10 mg/L as N	10.5 mg/L as N	FAIL
Turbidity	EPA 180.1	10 NTU	<1.0 NTU 🖊	Pass
pΗ	EPA 150.1	*6.5-8 5 Units	6.4 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.

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 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:

S/O Number: 84937

Goodier Builders

Report Date: April 17, 2012

10705 Charter Drive, Suite 350 Columbia, Maryland 21044

Retest #1

Property Sampled:

15328 Sweetbay Street, 21797

Building Permit #:

B10002989

Sample Location:

R/O Tap & Pressure Tank

Sampler ID #: Samples Iced: 0765AR Yes

Residual Chlorine:

<0.1 mg/L

Belle Haven Estates

County: Map:

Howard 14

Subdivision: Parcel:

66

Lot #:

Date/Time Collected in Field:

April 16, 2012 @ 10:30 am – R/O (Nitrate)

April 16, 2012 @ 10:40 am - Pressure Tank (Bacteria)

Date/Time Received in Lab:

April 16, 2012 @ 1:40 pm

Well Tag #:

HO-95-0657

Well Condition:

2-Piece Cap, Satisfactory

Water Treatment/Conditioning:

Carbon Filter, Sediment Filter, Reverse Osmosis (R/O)

PARAMETER	METHOD	MCL	RESULT	PASS/FAIL
Total Coliform	SM 9223B	Absent	Absent	Pass
E. coli	SM 9223B	Absent	Absent	Pass
Nitrate	SM 4500F)	10 mg/L as N	<1.0 mg/Las N	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.

Katherine C. Higgs

Manager - Drinking Water Testing

Bricker, Robert

From:

Bricker, Robert

Sent:

Wednesday, March 21, 2012 10:12 AM

To:

'Irons, Mike'

Subject:

15328 SweetBay Street Lot 3

Mike.

Analysis for nitrates in a water sample obtained at the subject property on March 19 indicate that the nitrate level (10.3 mg/L) exceeds the Maximum Contaminant Level (MCL) of 10 mg/L. An Interim Certificate of Potability (ICOP) with Temporary Deviation for Nitrates may be issued provided that we receive a 'Request for Temporary Deviation for Nitrates' signed by the homeowner. Be advised that the temporary deviation has a 15-day time limit, and during that period a treatment device must be installed and a water sample must be submitted from a (the) treated tap that has nitrate content less than 10 mg/L. At that time an ICOP with Permanent Deviation for Nitrate may be issued. An alternative is to forego the request for temporary deviation, install the treatment device and obtain passing sample.

ALSO, please be advised, the same water sample had pH 6.4 which is slightly below the recommended range of 6.5 to 8.5.

If you have any questions concerning these contents you may contact me by 'Reply' or by phone (see below). Robert Bricker

ROBERT BRICKER, CPSS, REHS/RS
ENVIRONMENTAL SANITARIAN SUPERVISOR
DEVELOPMENT COORDINATION SECTION, WELL AND SEPTIC PROGRAM
HOWARD COUNTY BUREAU OF ENVIRONMENTAL HEALTH
7178 COLUMBIA GATEWAY DRIVE
COLUMBIA, MD 21046

410-313-2691; fax, 410-313-2648 rbricker@howardcountymd.gov

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15328 Sweet box St (Belle Haven, Lot3) FILE INQUIRY NOTES

DATE RESULTS OF REVIEW FOR FILE
3/2/12 called Mike Trons /eft Voice Mail
need to discuss Nitrates in Watert
(Also need to notify that pthat's slightly below range) Reight Found another # (410-461-5900)—"Not In Service" 10:12 Sent email rotice.
Residen Found another # (410-461-5900) - "Not In Service"
10:12 Sent email notice.