B 1 0 6 0 1 7 SEQUENCE NO.	STATE OF MARYL	AND	STATE PERMIT NUMBER
(MDE USE ONLY)	APPLICATION FOR PERMIT T	A STATE OF THE PARTY OF THE PAR	HO -14 -0037
	DIR please type		70 79
2 2 2 4 4 6 6	763631		fill in this form completely
Date Received (APA)	B 3	11	OCATION OF WELL
8 MM DD YY 13 OWNER INFOR	MATION	Howard	
BASSLER Verture W	8 (COUNTY	21
15 Last Name Owner	First Name 34		eek PHASE III
1 80 BOX 482	23	SUBDIVISION	42
36 Street or RFD	55 SECT	TION L	LOT (109)
165 Bow inn	21265	44 46	48 50
	2 Zip 76	CLARKSU	
DRILLER INFORMATION	52	NEAREST TOWN	71
RALAL MAYNE N	S D 1/2		
Driller's Name 76	License No. 81 B 4		
KACKE MAJNE W	ELL DRICEM SOURCES	OF DRILLING WATER	WILD OLIVE CH.
Firm Name	J well		11 STREET ADDRESS 30
	Tim/MA 2192/ 2		ON WHICH SIDE OF ROAD
Address	3.		(CIRCLE APPROPRIATE BOX)
1012 Mym	5/15/14		WEST STEAST
Signature	Date		34 23 0 37 SOUTH
B 2 WELL INFORMATION APPROX. PUMPING RATE —	5		DISTANCE FROM ROAD
(GAL. PER MIN.)	12		ENTER FT OR MI 38 39
AVERAGE DAILY QUANTITY NEEDED	.00	T	AX MAP: 28 BLK: 11 PARCEL 48
(GAL. PER DAY) 14 USE FOR WATER (CIRCLE APP	20	NOT TO	DE EULED IN DV DDULED
DOMESTIC POTABLE SUPPLY & RESIDEN	THE RESIDENCE OF THE PARTY OF T	HEALTH	BE FILLED IN BY DRILLER DEPARTMENT APPROVAL
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F FARMING (LIVESTOCK WATERING & AGR	ICULTURAL	lowland i	A520448 13 1
IRRIGATION)		NTY NAME	COUNTY NO.
22 INDUSTRIAL, COMMERCIAL, DEWATERIN	G STAT	E ATURE	INSERT S
P PUBLIC WATER SUPPLY WELL		ISSUED	1 1-1- 41
TEST, OBSERVATION, MONITORING	100	0 11 2014	A-KI 6/11/15
O OPEN LOOP GEOTHERMAL	43	MM Dd YY 48	CO SIGNATURE EXP. DATE
C CLOSED LOOP GEOTHERMAL			
PROBLEM THE GOVERNMENT OF		PROPOSET	DI ACATION OF WELL ONLOT
APPROXIMATE DEPTH OF WELL L_/50	J FEET SHOW		D LOCATION OF WELL ON LOT TURES SUCH AS BUILDINGS, SEPTIC SYSTEM,
24		ADS AND/OR LANDMA	ARKS AND INDICATE NOT LESS THAN TWO
APPROXIMATE DIAMETER OF WELL 64	NEAREST INCH	DISTANCE	E MEASUREMENTS TO WELL
1000	20 - 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
METHOD OF DRILLING		Caron	
BORED (or Augered) JETTED	Jetted & DRIVEN	CATAPL	4
AIR-ROTary AIR-PEAcussion F	OTARY (Hydraulic Rotary)	C+f	· 李维女子子主题图1
CABLE REVerse-ROTary	DRive-POINT		Vi Vi
other			14
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THIS WELL WILL REPLACE A WELL THAT WAS ABANDONED AND SEALED	ILL BE	Q 1200	10
	ULL BE USED	0/250'	Any
39 S AS A STANDBY-CONTACT LOCAL APPROVI			\ \ \
FOR POLICY ON STANDBY WELLS THIS WELL WILL DEEPEN AN EXISTING WE		W.	- WALL
PERMIT NUMBER OF WELL TO BE REPLACED OR		160	OLIVE Way
(IF AVAILABLE) 41	52 N	CH	
Not to be filled in by driller (MDE OR CO	MINTY USE ONLY	1.4	- Collected & York
		6201	Cilcon & Ina
APPROP. PERMIT NUMBER 40200	6 GO 20	Suy	(Rew)
	14 2027		
PERMIT No. 170 71 72	73 74 75 76 77 78 79		
SPECIAL CONDITIONS	Level Committee Progression	11 10	a Cook agent
NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED.	Il Wells most be a	t least 100	ofeet apart

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)		
IN COLO. O CON MEL CAMIDO)	WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY 4520 385 NUMBER 4520 448
DATE WELL DATE Received MM DD DD T3 DATE WELL MM DD T5	COMPLETED Depth of Well 22 /85 26 (TO NEAREST FOOT)	PERMIT NO. FROM "PERMIT TO DRILL WELL" 28 29 30 31 32 33 34 35 36 37
	entune LCC	28 29 30 31 32 33 34 35 36 37
WELL SITE ADDRESS last name W/L		LAYCS JULE LOT 104
SUBDIVISION WALKET CA	GROUTING RECORD YES NO	IC 3
Not required for driven wells	WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2 PUMPING TEST
STATE THE KIND OF FORMATIONS PENETRATED, 1 COLOR, DEPTH, THICKNESS AND IF WATER BEAF	TYPE OF GROUFING MATERIAL (Circle one)	HOURS PUMPED (nearest hour)
DESCRIPTION (Use additional sheets if needed) FROM TO	check water bearing NO. OF BAGS 46 24 NO. OF POUNDS 45 46	PUMPING RATE (gal. per min.)
Top Soil 0 2	GALLONS OF WATER	METHOD USED TO BULL 15
SANLY 2 55	from 48 TOP 52 ft. to 54 BOTTOM 58	WATER LEVEL (distance from land surface)
SAND Stone 55 60	(enter 0 if from surface) Casing CASING RECORD	BEFORE PUMPING 38 ft.
MICKA 60 95	types insert ST CO	WHEN PUMPING 17 tt.
Smul Stone 55 100	appropriate code below PLASTIC OT PLASTIC	TYPE OF PUMP USED (for test)
100	MAIN Nominal diameter Total depth CASING top (main) casing of main casing	A air P piston T turbine
MICKA 100 103	TYPE (nearest inch)! (nearest foot)	C centrifugal R rotary 0 (describe below)
	60 61 63 64 66 70 E OTHER CASING (if used)	J jet Ssubmersible
	diameter depth (feet) inch from to	
	C A	DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES or NO)
	Ż	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
	screen type or open hole ST BR	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29.
	insert appropriate code BRONZE HOLE PL OT	CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35
	PLASTIC OTHER	PUMP HORSE POWER 37 41
NUMBER OF UNSUCCESSFUL WELLS:	C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.)
WELL HYDROFRACTURED Yes	N A 8 9 11 15 17 21	CASING HEIGHT (circle appropriate box and enter casing height)
CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED	H 2 23 24 26 30 32 36	LAND SURFACE
WHEN THIS WELL WAS COMPLETED ELECTRIC LOG OBTAINED	S C 3 R 38 39 41 45 47 51 E	below below (nearest) foot)
P TEST WELL CONVERTED TO PRODUCTION WELL I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRU	E SLOT SIZE 1 2 3	LATITUDE 3 9. 2 386/
ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION CONFORMANCE WITH ALL CONDITIONS STATED IN THI CAPTIDNED PERMIT, AND THAT THE INFORMATION PREHEREIN IS ACCURATE AND COMPLETE TO THE BEST	N" AND OIAMETER (NEAREST INCH)	(DEFAULT COORD. WGS 84)
KNOWLEDGE.	from to -	NOTES:
DRILLERS LIC. NO. 1 M D	GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 59 68	
(MUST MATCH SIGNATURE ON APPLICATION)	MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)	
LIC MOUNTED	_ 1	•
SITE SUPERVISOR (sign. of driller or journeyma responsible for sitework if different from permitte	TELESCOPE LOG	
MDE/WMA/PER.071	CASING INDICATOR OTHER DATA	

Page	o:	
_ *	June 24 2014	1
Cate	Charles and a fire of the second of the seco	٠.

Review	
	*

FIELD DATA SHEET HOWARD COUNTY WELL YIELD TEST

Well Permit No. Ho - 14-0037 Location of property (road)wild of the Cot	
	Lot 184 Block Plat Sec. Owner KASLER Venture LCC
Depth of well 185 Distance of measuring point (M.P.) above Static water level (S.W.L.) below M.P.	ve ground 2 A
 High race pumping reservoir drawdown 	
Time pump started 11:00 Total time 15 m to reach pumping	Pumping rate 10 GPm water level 65 ft. below M.P.

II. Recovery pump test data - observations to be recorded every.15 minutes

TIME (in 15 minute in- cervals	WATER LEVEL below M.P.	I			ED FLOW per
11:00	38 F	f 6 Se	, , , , , , , , , , , , , , , , , , ,	/0	GPM
			TEST STARTER		•
11:15	45 F			/0	6Pm
11:30	65 A	<u> </u>		10	Grm
11:45	65 4	6 Sec 6 Sec		10	SPRN
12:00	65 1	•		10	1,
12:15	65 1	6 11	- The control of the	10	• •
12:30	65 1			10	l ı
12:45	65 1	9 6 Sec		70	GAM
1100	65 '	4 6 Sec.		10	(Pron.
1,15	65	4 6 Sec		10	GPM
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1145	65	1 6 4		10	ţl
2:00	i	4 6 Sa	**************************************	10	6Pm
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Page 3 of 3

om Howard County Environmental Health

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Wed Mar 9 04:30:26 2011

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.
	16 T 2 3 427 1,27
	Company Name: 11 Survy Lynd XCVO La Telephone #: 20 11-1510
	Address Gill Old Alexand Rb
	Boomber Md 21913
Ž.	And sind a series of the serie
. ~.	(Must circle one) Licensed Plumban Licensed Well Driller Licensed Well Pump Installer License # and name of individual responsible for the field installation:
	Name (Print): Willran Griffith Licensett 74135
	"A licensed individual must perform the actual justaliation. Apprentices must be under the supervision of a
	licensed journeymen 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.
	(1) vi) 022 022 0502
	Name of Property Owner: Craffmark Humi Telephone #: 703-932-0573
	Subdivision: Well Tag #: HO - 19 - 0037' Oak Address: 4988 Wild Olive C
	Site Address: 4988 Wild Olive CF Ellical CA Md 21042
	Make: Wake: Lower Two piece watertight cap: Vel
	Model #: STPHSOS22-01 Model#: PTINO Screened, vented well cap: ye
	Pump Capacity 7 GPM Depth: 26 (36" min) Cap secured to casing: 10
	Well Yield: 10 GPM NSF/WSC approved: Conduit min 18" B.G.: 10
**	Depth of well encountered at time of pump installation: 185 (feet) Conduit secured to well cap: 10
	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. House Connection
	Type: PVC sleeve to undisturbed soil at wall penetration: Ye)
	FSI: 200 (160 psi mig), Length of sleeves missions from toundarium): 200
	Depth of supply line: 36 min) 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 refered. If this cannot be accomplished, contact this office for
	a paramal prior to installation / /// // //
	1.5-2018
	Signature of company representative responsible for installation date
	For Health Department Use Only - Not to be completed by Installer
	Date Insp. Requested: 09/06 bol 8 Date Insp. Approved: 09/07 bol 8 Inspector: 19
	Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade
	WO DIRCH CAD IDSTAILED AND AFFACIED TO CASINE SECURCIV
	Elec, conduit extends at least 18" below grade/attached to cap properly 32" 09/06/2018@
	Safety tope not outside of well cap/casing
5/ HOUS	Correct well tag attached properly and casing 8" above finished grade29 '09 /04 /2008
-a liplas	Water supply line sleeved adequately at house connection
Officia	Adequate grout observed below pitless adapter
1	09/06/2018 Contirm great is do
\ \	09/06/2018 P. Confirm great is 20" Below P. +less.
1	contractor contractor grout to install Pitlets.
. {	Contractor contractor on one of grout
1.	de in chall Ditlett.
`	40 W21000

Williams, Jeffrey

From:

Williams, Jeffrey

Sent:

Friday, May 16, 2014 12:16 PM

To:

Tim Feaga

Subject:

Walnut Creek Radium testing

Attachments:

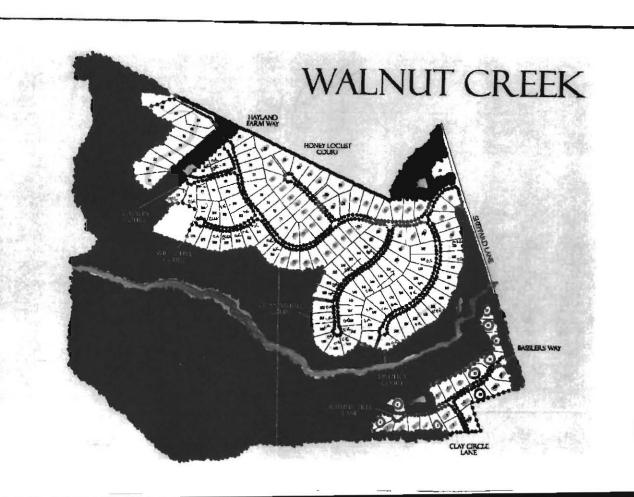
Walnut Creek radium.pdf; Walnut Creek radium_2.pdf

Hi Tim. I met with Bert regarding possible easement of radium testing at all lots in Walnut Creek. I've attached a map showing the additional lots that we would like to still be tested to ensure that there is not an area of concern in the remaining lots. The lots in the green cloud have been tested and passed. The lots in the red cloud are lots that we would like to be tested. The lots at the top corner (82-86, 90-94) fall within the radium testing boundary. We want the lots near the river tested to prove whether the stream is in fact acting as a natural buffer from the positive tests on the other side and the passing lots above them. Furthermore, we'd like some representative lots tested in the other section near the upper testing boundary to prove that there are no hot spots. If these are also passing, then we would likely be comfortable waiving the remaining.

We'd be happy to meet with you to discuss if you prefer. Thanks.

Jeff Williams
Program Supervisor, Well & Septic Program
Bureau of Environmental Health
Howard County Health Dept.
410-313-4261
jewilliams@howardcountymd.gov

CONTRACTOR WITH \$ 1 THING MICHAELINE





Bureau of Environmental Health 8930 Stanford Blvd | Columbia, MD 21045 410.313.2640 - Voice/Relay 410.313.2648 - Fax 1.866.313.6300 - Toll Free

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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date - JUNE 17, 2019

December 17, 2018

Homeowner 4988 Wild Olive Court Ellicott City, MD 21042

RE: Walt

Walnut Creek, Lot 104
4988 Wild Olive Court
Building Permit: B18002053
Well Permit: HO-14-0037

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 12/17/2017. Final approval of the well line connection to the dwelling was granted on 9/7/2018. The well construction was completed on 6/24/2014. Water samples were collected on 12/10/2018.

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 3/3/2015. Results showed a combined level for radium 226 and 228 to be 1.2 pCi/L. The radium 226, 228 combined maximum contaminant level (MCL) of 3.01 pCi/L was below the target level of 5pCi/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-14-0037. 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.

Website: www.hchealth.org Facebook: www.facebook.com/hocohealth Twitter: @HoCoHealth



Bureau of Environmental Health 8930 Stanford Blvd | Columbia, MD 21045 410.313.2640 - Voice/Relay 410.313.2648 - Fax 1.866.313.6300 - Toll Free

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

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-2010apt16.pdf

In closing, please refer to our "Homeowner Fact Sheet" for understanding your onsite sewage disposal system. You will also find a link to Maryland Department of the Environments website which elaborates in further detail operation and maintenance of your Septic System.

Approving Authority,

Kevin M Wolf, L.E.H.S., REHS/R.S., Supervisor

Groundwater Management Section

Well & Septic Program

c: Howard County Dept. of Inspections, Licenses, and Permits

Community Hygiene Program

File



pureau or environmental mealth

8930 Stanford Boulevard, Columbia, MD 2104S 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

Maura Rossman, M.D., Health Officer

August 27, 2014

Bassler Venture LLC Attn. Tim Feaga 15950 North Avenue, P.O. Box 482 Lisbon, Maryland 21765

> RE: Walnut Creek Lot 104 Wild Olive Court Well Tag: HO - 14 - 0037

Dear Mr. Feaga:

A sample was collected during a yield test on June 26, 2014 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 revealed a Gross Alpha of 27.7 ± 3.4 picocuries/liter (pCi/L), while the Gross Beta level was 5.9 ± 2.1 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 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 does not meet EPA regulatory standards. Given elevated reading for Gross Alpha, additional testing for these parameters will be required to secure the future Use & Occupancy. The installation of a water softener system and / or a reverse osmosis system may be necessary. If treatment is installed, pre and post short and long term Gross Alpha and Beta, plus a post Radium 226 / 228 will be needed to properly evaluate the effectiveness of the installed treatment(s). Alternatively, you may collect raw water samples for short and long term Gross Alpha and Beta, plus Radium 226 / 228 to see if all values are below existing standards. Given that it typically takes up to one month to perform and receive back the Radium analyses, plan accordingly. Please note that other standard testing parameters (bacteria, nitrate, turbidity and sand) will still be required to help secure Use & Occupancy.

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

Bert Nixon, Director

Bureau of Environmental Health

Enclosure

cc: Property file



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045 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

Maura Rossman, M.D., Health Officer

April 28, 2015

Land Marketing Consultants, Inc. Attn. Tim Feaga 15950 North Avenue, P.O. Box 482 Lisbon, Maryland 21765

RE: Walnut Creek Lot 104 Wild Olive Court Well Tag: HO - 14 - 0037

Dear Mr. Feaga:

Follow-up sampling was collected at the well head on March 3rd and April 7th, 2015 and submitted to NTS Laboratory to verify/confirm the presence of **Gross Alpha**, **Gross Beta**, **Radium 226/228** and **Uranium** in the future well 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 and in some instances, detected during earlier sampling of this future supply.

Results from this follow-up short-term screening (sample collected April 7, 2015) revealed a Gross Alpha of 3.1 ± 1.2 picocuries/liter (pCi/L), while the Gross Beta level was 5.7 ± 1.5 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 targeted value of 50 pCi/L (roughly equivalent to the annual dose rate of 4 millirems/year).

Long-term testing performed on March 3, 2015 revealed a Gross Alpha of 1.7 ± 1.2 pCi/L, while the Gross Beta level was 4.1 ± 1.5 pCi/L. Here the Gross Alpha result was below its MCL of 15 pCi/L, while the Gross Beta level was below its targeted value of 50 pCi/L.

Additionally, testing for Radium 226/228 and Uranium was also performed on March 3, 2015. This testing revealed a Radium 226 level of 0.5 ± 0.2 pCi/L; while the Radium 228 level was $< 0.7 \pm 0.4$ pCi/L. These naturally occurring isotopes of radium are considered the most important due to their longer half-lives and health significance. Here the combined Radium 226 / 228 was below the MCL of 5 pCi/L. With respect to Uranium, the finding of $< 0.4 \pm 0.4$ pCi/L was well below the MCL of 30 µg/L (approx. 20 pCi/L).

At the time of testing and with respect to these parameters, the future well water supply currently meets EPA regulatory standards. Additional testing for these parameters will not be required to secure the future Use & Occupancy. Please also note that other standard testing parameters (bacteria, nitrate, turbidity and sand) will still be required to help secure Use & Occupancy.

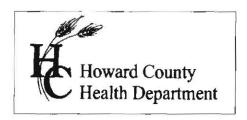
A copy of each test report is enclosed for your information. Please call this office at 410-313-1773 if you have any further questions.

Sincerely,

Bert Nixon, Director

Bureau of Environmental Health

/ Enclosures cc: Property file



7178 Columbia Gateway Dr., Columbia, MD 21046

(410) 313-2640 TDD (410) 313-2323 Fax (410) 313-2648 Toll Free 1-866-313-6300

website: www.hchealth.org

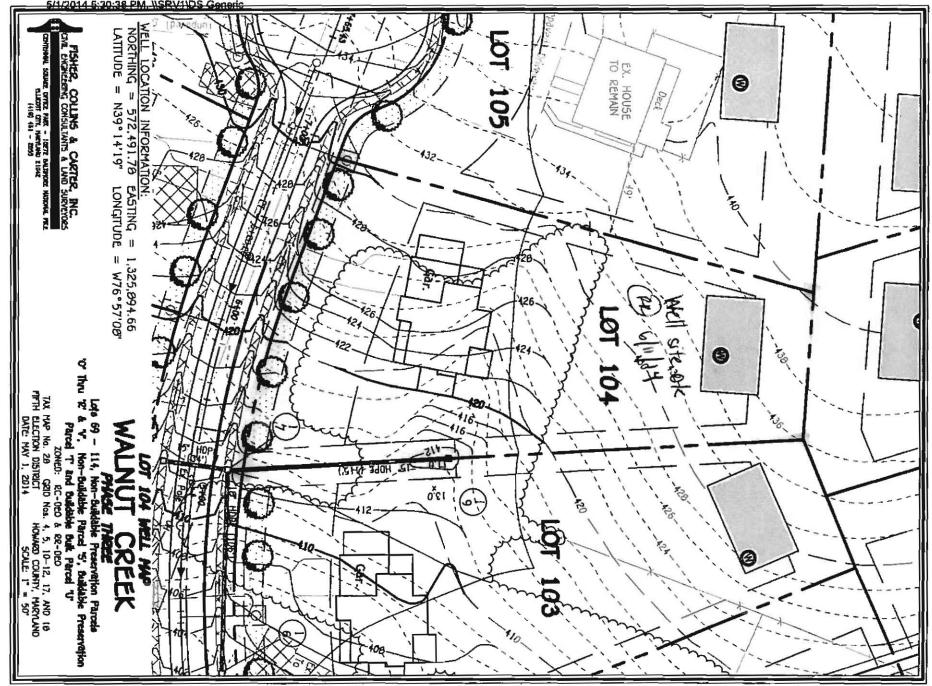
Peter L. Bielenson, M.D., M.P.H., Health Officer

TO ALL INTERESTED PARTIES

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

Well Sit	e Location:		
Walnut Creek Phase 3		104	Wild Olive Ct.
Subdivision	on/Property Name	Lot #	Road Name
X	The well site has been stak (professional land surveyor or con05/07/14	ompany employ	Fisher, Collins and Carter, Inc. ing professional land surveyors) does not require a site inspection.
			er will call the Health Department verify the proposed well site
	et, along with two copies of een well permit application.	an acceptable	well site plan, must be attached

Revised 3/11/07





3020 Ventrie Couri ● PO BDX 745 ♦ Myersville, MD 21773 ● 500-332-3340 ● FAX 301-293-2365 www.fredericAtownefabs.com ● info@fredericktownefabs.com

Certificate of Analysis

Acct. No. 3948 - 2221-1 Field Record

Site visit performed on: Monday, December 10, 2018 4:08 PM

by: Brian Kepler State ID No. 1063BK

Affiliation: Tri-County Pump Service

Property Owner: Craftmark Homes
Property Address: 4988 Wild Olive Ct

Ellicott City, MD 21042

Sample Source: 1st Floor Powder Room Sink Treatment Devices Noted: No Treatment Devices

Well No.: HO-14-0035

Field pH: 7.5

Free Res. Cl.: 0.0 mg/l

Laboratory Report

Sample Received at laboratory: 12/11/2018 7:59 AM

Bacteriological results:

Bacteriological analysis of this sample indicates the water is safe for human consumption and meets federal, state and local requirements. Analysis was performed according to the 20th edition of Standard Methods

Inorganic Chemical results:

Parameter Nitrate-Nitrogen	Result Units 6.5 mg/l	MCL 10	Date of Analysis 12/11/2018	Method 300.0	Analyst
Sand	<2 mg/l	5	12/11/2018	0.065mmFilter	P H JD
Turbidity	1 7 NTU	<10	12/11/2018	180.1	KMW

Reported by: Cutty Files 131318

Fredericktowne Labs, Inc. is a State Certified Water Quality Laboratory Maryland Cert. No. 116 Virginia Cert. No. 00444 MDOT WBE Cert. No.: 91-158

12/12/2018 4:24:23 PM

Page 1 of 1

NTS - BALTIMORE



Formerly Trace Laboratories, Inc. 5 North Park Drive Hunt Valley, MD 21030 USA Telephone: 410/584-9099 / Fax: 410/584-9117

www.nts.com

LETTER OF RESULTS

Requester:

S/O Number: 98951-5A

Land Marketing Consultants, Inc.

Report Date: April 13, 2015

P.O. Box 482

Lisbon, Maryland 21765

Listed below are results of drinking water analyses on a sample collected by client and delivered to National Technical Systems (NTS) for analysis:

Date/Time Collected in Field:

April 7, 2015 9:00 am

Date/Time Received in Lab:

April 7, 2015 2:15 pm

Information Provided By Client:

Property Location:

Walnut Creek Lot 104

Sample Location:

Wellhead

Well Tag #:

HO-14-0037

Sampler ID #:

Ralph Mayne

PARAMETER	METHOD	MCL	RESULT (pCi/L)	COMMENT
Gross Alpha (Short-Term)	EPA 900.0	15 pCi/L	3.1 ± 1.2	Pass
Gross Beta (Short-Term)	EPA 900.0	50 pCi/L	5.7 ± 1.5	Pass

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

Note: The primary sources of gross alpha activity in water are Radium-224, Radium-226, and/or Uranium. Gross alpha 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. Gross beta activity in water may be due to Radium-228 or any combination of beta-emitting elements.

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 NTS.

Katherino C. J

Manager - Drinking Water Testing

NOTE: NTS is not responsible for the collection or the transportation of the sample Analyzed by Lab #278

Report 2 of 2

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NTS - BALTIMORE



Formerly Trace Laboratories, Inc. 5 North Park Drive Hunt Valley, MD 21030 USA Telephone: 410/584-9099 / Fax: 410/584-9117

www.nts.com

LETTER OF RESULTS

Requester:

S/O Number: 98951-5

Land Marketing Consultants, Inc.

Report Date: March 31, 2015

P.O. Box 482

Lisbon, Maryland 21765

Listed below are results of drinking water analyses on a sample collected by client and delivered to National Technical Systems (NTS) for analysis:

Date/Time Collected in Field:

March 3, 2015 10:30 am

Date/Time Received in Lab:

March 4, 2015 10:22 am

Information Provided By Client:

Property Location:

Walnut Creek Lot 104

Sample Location:

Wellhead

Well Tag #:

HO-14-0037

Sampler ID #:

Ralph Mayne

PARAMETER	METHOD	MCL	RESULT (pCi/L)	COMMENT
Gross Alpha (Long-Term)	EPA 900.0	15 pCi/L	1.7 ± 1.2	Pass
Gross Beta (Long-Term)	EPA 900.0	50 pCi/L	4.1 ± 1.5	Pass
Radium 226	EPA 903.1	5 pCi/L	0.5 ± 0.2	D.
Radium 228	EPA Ra-05	Combined	$< 0.7 \pm 0.4$	Pass
Uranium	EPA 908.0	30 μg/L [*]	<0.4 ± 0.4	Pass

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

[*] According to EPA's Implementation Guidance for Radionuclides, 1 µg/L uranium is equal to 0.67 pCi/L.

Note: The primary sources of gross alpha activity in water are Radium-224, Radium-226, and/or Uranium. Gross alpha 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. Gross beta activity in water may be due to Radium-228 or any combination of beta-emitting elements.

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 NTS.

Manager - Drinking Water Testing

NOTE: NTS is not responsible for the collection or the transportation of the sample

Analyzed by Lab #278

Report I of 2

Page 5 of 5

SEND REPORT TO: FUT A DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Howard County Health Department Bureau of Environmental Health Laboratories Administration 201 W. Preston St., Baltimore, MD 21201 Robert A. Myers, Ph.D., Director Lab No.

8930 Stanford Blvd. Columbia, Maryland 21045

RADIATION ANALYSIS REQUEST FORM

U	Joiumbia, Maryland 2	1045	RADI	ATION ANALYS	SIS REQUEST F	ORM		
Pla	int/Site Name: W	-ht	Cree	K-Lot	LD4 Coun	ty:	ward	
Sar	mple Source:	Ld	Otre	Court	Locar	tion:	O - / L/ -	-0037
Rac	don-222 Bottle A Bottle B		W0037	Radone	Field Blank	Bottle		W62614
				(8) \$	<u> </u>	Doute	J	
Cor	unty 13	*		Plant N	о.			
CH	ECK (one per Box)	¥						
Lar	Type inking Water adfill cam	4 4		[] Sour	Point of Collection ce (Raw) ibution (treated)	0	Testin Emergency Routine Recheck Special	28 C
e ser		Q44.1.10			The state of the s	and the contract of		3
Sul	bmitters Code:	1 - N - N		I I	ederal Project:			105
Col	llector:	<u> </u>	6H	T	elephone No.:	410	313 :	2645
Da	te Collected:	-26.	-14	T.	ime Collected:		a.m/	/ p.m.
E:a	ld all:		STATE OF STATE		ield Chlorine:			
LIC	eld pH:	1V - 2		ria	leid Chiorme.	C		
Nit	ric Acid Preserved:	Yes	No	i i	ced: Yes	No [
Rei	marks: 5		1-16.8	610	Yeld	· ·		
		Abda - H						1 ***
Ø	TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
X	The state of the s	4000	2890	FRAGIO O		7/1/14	M	7/2/14
		4100	2890		5.9 ± 2.1	L	1	J
0	Radium-226	4020			1970 and to select		Territor a	A CONTRACTOR
0	Radium-228	4030		AND WEIGHT	44 9 t 17 K-1			
	Total Uranium	4006						
	Radon-222 (Bottle A)	4004	(MAY construction account	4		-17.55		
	Radon-222 (Bottle B)	4004			W	34-51		-3), m
		4004	San		424 1-1127			
	Radon Field Blank B	4004			1 3 2 3	200 mg 3 564 mg		, ,
В	Tritium	750	1.75 PM 5 5					
<u> </u>			A Printe Inc. of			234-4-1	A	
	120 (200)		***		1 2000	As a second		
	te Received:	06/2	7/14	Received By:	Cur	My-Boyd		1
Da	ta Release Signature:	NO .	1. and	a mall	o - Jui	Date:	7/3	114
שענ	1 TO	XO.	von	A mill	er-Ju.		7/3	5/14
	Lab	Use Only	LON	A mill	s No	Date:	7/3	5/14
San	Lab		UNA				_7/3	5/14
San	Lab	Use Only		P. Mall			_7/3	5/14

•Tel. No.: (410) 767-5537 •Fax No.: (410) 333-5373

Howard County Health Department Bureau of Environmental Health 8930 Stanford Bivd. Columbia, Maryland 21045

Laboratories Administration 201 W. Preston St., Baltimore, MD 21201 Robert A. Myers, Ph.D., Director

E書象2887 527=

Lab No.

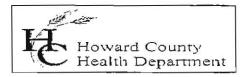
RADIATION ANALYSIS REQUEST FORM

Plant/Site Name: #C	HD			_ Couṇ		Howar	
Sample Source:	Dist	Isted +	420	_ Locas		ab_	
						Vell no., lab sink, san	
Radon-222 Bottle A	_		Radon-2	22 Field Blank	Bottle	EAFBKI	162614
Bottle B		-			Bottle	e B	
County 13		(8), 350	Plant No				
CHECK (one per Box)							
Type	3 300	Service		Point of Collection		Testin	g
Drinking Water	10 + 1 500	nunity	41.000	e (Raw)	-	Emergency	
Landfill	Non-	Community	□ Distril	bution (treated)	<i>'</i> 🗆 }	Routine	₽~
Stream . D	Privat	le .	MCL	J.M. sy.	Q	Recheck	~ □
Other	Other					Special	
A 145 P. A] 614 -14	Te	deral Project: elephone No.: me Collected:		110 312 a.m.	7.645 4 p.m.
Field pH: Nitric Acid Preserved:	Yes .[loc	eld Chlorine:	No [
Nitric Acid Preserved: Remarks:	ВІ	uk.	loc Cos	ed: Yes	,,		Pate
Nitric Acid Preserved:			loc	ed: Yes	No Date Analyzed	Analyst	Date Reported
Nitric Acid Preserved:	B.I EPA	uk.	loc Cos	ed: Yes	,,	Analyst W	
Nitric Acid Preserved: Remarks:	BJ EPA Code	Lab No.	Method No.	Results (pCl/L)	Date Analyzed		
Nitric Acid Preserved: Remarks:	EPA Code 4000	Lab No.	Method No.	ed: Yes	Date Analyzed		
Nitric Acid Preserved: Remarks:	EPA Code 4000 4100	Lab No.	Method No.	Results (pCl/L)	Date Analyzed		
Nitric Acid Preserved: Remarks:	EPA Code 4000 4100 4020	Lab No.	Method No.	Results (pCl/L)	Date Analyzed		
Nitric Acid Preserved: Remarks: TEST Gross Alpha Gross Beta Radium-226 Radium-228	EPA Code 4000 4100 4020 4030	Lab No.	Method No.	Results (pCl/L)	Date Analyzed		
Nitric Acid Preserved: Remarks:	EPA Code 4000 4100 4020 4030 4006	Lab No.	Method No.	Results (pCl/L)	Date Analyzed		
Nitric Acid Preserved: Remarks:	EPA Code 4000 4100 4020 4030 4006 4004	Lab No.	Method No.	Results (pCl/L)	Date Analyzed		
Nitric Acid Preserved: Remarks:	EPA Code 4000 4100 4020 4030 4006 4004 4004	Lab No.	Method No.	Results (pCl/L)	Date Analyzed		
Nitric Acid Preserved: Remarks:	EPA Code 4000 4100 4020 4030 4006 4004 4004	Lab No.	Method No.	Results (pCl/L)	Date Analyzed		
Nitric Acid Preserved: Remarks: TEST Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon-222 (Bottle B) Radon Field Blank A Radon Field Blank B	EPA Code 4000 4100 4020 4030 4006 4004 4004 4004	Lab No.	Method No.	Results (pCl/L)	Date Analyzed		
Nitric Acid Preserved: Remarks:	EPA Code 4000 4100 4020 4030 4006 4004 4004 4004	Lab Ng.	Method No.	ed: Yes Results (pCl/L) (2.0	Date Analyzed The Ly	Bond	Reported 7/1/19
Nitric Acid Preserved: Remarks:	EPA Code 4000 4100 4020 4030 4006 4004 4004 4004	Lab Ng.	Method No.	ed: Yes Results (pCl/L) (2.0	Date Analyzed	I'MA	Reported 7/1/19
Nitric Acid Preserved: Remarks:	B Code 4000 4100 4020 4004	Lab Ng.	Method No. FAR SA & A Received By:	ed: Yes Results (pCl/L) (2.0 (4.0)	Date Analyzed The Fig. 19 Date Analyzed Date Analyzed	Bond	Reported 7/1/19
Nitric Acid Preserved: Remarks: TEST Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon-222 (Bottle B) Radon Field Blank A Radon Field Blank B Tritium Caller Follow Date Received: Data Release Signature:	EPA Code 4000 4100 4020 4030 4006 4004 4004 4004	Lab Ng.	Method No.	ed: Yes Results (pCl/L) (20 24.0	Date Analyzed The 14	Bond	Reported 7/1/19
Nitric Acid Preserved: Remarks:	B / Code 4000 4100 4020 4030 4006 4004 4004 4004 4004 4004	Lab Ng.	Method No. FAR 51 d.a Received By: Mullo	ed: Yes Results (pCl/L) (2.0 (4.0)	Date Analyzed The Fig. 19 Date Analyzed Date Analyzed	Bond	Reported 7/1/19

•Tel. No.: (410) 767-5537 •Fax No.: (410) 333-5373

FORM REVISED 01/13 DHMH 4540 01/13

CUSTOMER COPY I



Invoice

Bureau of Environmental Health Attn: Bert Nixon, Director

DATE: JULY 24, 2014 DATES OF SERVICE: JUNE 25, 26, & JULY 1, 3 2014 INVOICE #: 2014-014

8930 Stanford Boulevard, Columbia, MD 21045 Phone 410-313-2640 Fax 410-313-2648 www.hchealth.org

BILL Heritage Reality and Land Development

Attn: Tim Feaga 15950 North Ave P.O. Box 482

Lisbon, MD 21765

COMMENTS

Payment due upon receipt. Letter and results will be released upon

receipt of payment.

DATE	DESCRIPTION	BALANCE	AMOUNT
06/25/14	Gross alpha/beta testing performed for Walnut Creek, Lots # 76 And 97 HO - 95 - 2667 HO - 14 - 0033		\$90.D0
06/26/14	Gross alpha/beta testing performed for Walnut Creek Lot # 104 HO - 14 - 0037		\$45.00
07/01/14	Gross alpha/beta testing performed for Walnut Creek Lots # 108 And 109 HO - 14 - 0039 HO - 14 - 0040		\$90.00
07/03/14	Gross alpha/beta testing performed for Walnut Creek Lot # 96 HO - 14 - 0032		\$45.00
-			AMOUNT DUE
		Γ	\$270.0

Please detach and return with payment.

REMITTANCE				
Invoice #	2014-014			
Site Information	Walnut Creek Lots 76, 96, 97, 104, 108, 109			
Amount Due	\$270.00			

Receipt 54598 8/26/14