



HOWARD COUNTY HEALTH DEPARTMENT

87834

CODES

DATE

10/15/24

605

CASH

CHECK

Received From

Allied Environmental Services

For

Well Personal App 6048 N. S. D. ...

NO.

33673

One hundred sixty 00 Dollars

\$

160.00

Received By

[Signature]

C 1	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.
1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)			COUNTY NUMBER
ST/CO USE ONLY DATE RECEIVED MM <u>12</u> DD <u>09</u> YR <u>21</u>	DATE WELL COMPLETED <u>11-09-24</u>	Depth of Well <u>400</u> (TO NEAREST FOOT)	PERMIT NO. FROM "PERMIT TO DRILL WELL" <u>40-22-011</u>
OWNER <u>Bing Tan</u>	last name	first name	TOWN <u>Chesapeake</u>
WELL SITE ADDRESS <u>16346 NW Dunwoody Parkway</u>			SECTION <u>115</u>
SUBDIVISION			LOT <u>115</u>

WELL LOG Not required for driven wells	GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N 44 44	C 3
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING	TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC	PUMPING TEST
DESCRIPTION (Use additional sheets if needed)	NO. OF BAGS <u>34</u> NO. OF POUNDS <u>1100</u>	HOURS PUMPED (nearest hour) <u>8</u> <u>9</u>
FEET FROM TO	GALLONS OF WATER <u>850</u>	PUMPING RATE (gal. per min.) <u>11</u> <u>15</u>
<u>10' sand</u>	DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE
<u>1' sand</u>	from <u>0</u> TOP 52 ft. to <u>400</u> BOTTOM 58 ft.	WATER LEVEL (distance from land surface)
<u>20' Red Rock</u>	(enter 0 if from surface)	BEFORE PUMPING <u>17</u> <u>20</u> ft.
<u>40' Grey Rock</u>	CASING RECORD	WHEN PUMPING <u>22</u> <u>25</u> ft.
	caseing types insert appropriate code below	TYPE OF PUMP USED (for test)
	ST STEEL CO CONCRETE	A air P piston T turbine
	PL PLASTIC OT OTHER	C centrifugal R rotary O other (describe below)
	MAIN CASING TYPE	J jet S submersible
	Nominal diameter top (main) casing (nearest inch)	
	Total depth of main casing (nearest foot)	
	60 61 63 64 66 70	
	OTHER CASING (if used)	
	diameter inch depth (feet) from to	
	SCREEN RECORD	
	screen type or open hole	
	insert appropriate code below	
	ST STEEL BR BRASS HO OPEN HOLE	
	PL PLASTIC OT OTHER	
	C 2	
	DEPTH (nearest ft.)	
	1 2	
	A 8 9 11 15 17 21	
	C 23 24 26 30 32 36	
	S 38 39 41 45 47 51	
	R 56 60	
	SLOT SIZE 1 2 3	
	DIAMETER OF SCREEN (NEAREST INCH)	
	from to	
	WELL HYDROFRACTURED 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 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. <u>M D 578</u>	
	DRILLERS SIGNATURE	
	(MUST MATCH SIGNATURE ON APPLICATION)	
	LIC. NO. <u>D</u>	
	SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)	
	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	
	70 72 74 75 76	
	TELESCOPE CASING LOG INDICATOR OTHER DATA	
	LATITUDE <u>39.19607</u>	
	LONGITUDE <u>76.92034</u>	
	(DEFAULT COORD. WGS 84)	
	Pursuant to §10-624 of the State Govt. Article of the Maryland Code personal info. requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info. may result in this form not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by federal or state law.	

B 1 73355 SEQUENCE NO. (MDE USE ONLY) STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL STATE PERMIT NUMBER H0-22-0160
 581034 please type 70 fill in this form completely 79

OWNER INFORMATION
 Date Received (APA) 11/15/24
 8 MM DD YY
 15 Last Name King Tracy + Major Christian F VE
 Owner First Name
 36 Street or RD 6348 NW Daring Parkway
 Columbia MD 21044
 57 Town 70 State 72 Zip 76

DRILLER INFORMATION
 Driller's Name Wesley Wolfe M 6 D 598 License No. 76 81
 Firm Name Allied Well Drilling
 Address PO Box 129 Annapolis Junction MD 20701
 Signature Wesley Wolfe Date 10/11/24

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

USE FOR WATER (CIRCLE APPROPRIATE BOX)
 22 DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 INDUSTRIAL, COMMERCIAL, DEWATERING
 PUBLIC WATER SUPPLY WELL
 TEST, OBSERVATION, MONITORING
 OPEN LOOP GEOTHERMAL
 CLOSED LOOP GEOTHERMAL 2 Loops

APPROXIMATE DEPTH OF WELL 400 FEET
 APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH

METHOD OF DRILLING (circle one)
 BORED (or Augered) JETTED Jetted & DRIVEN
 30 AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)
 37 CABLE REVerse-ROTary DRive-POINT
 other

REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX)
 39 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

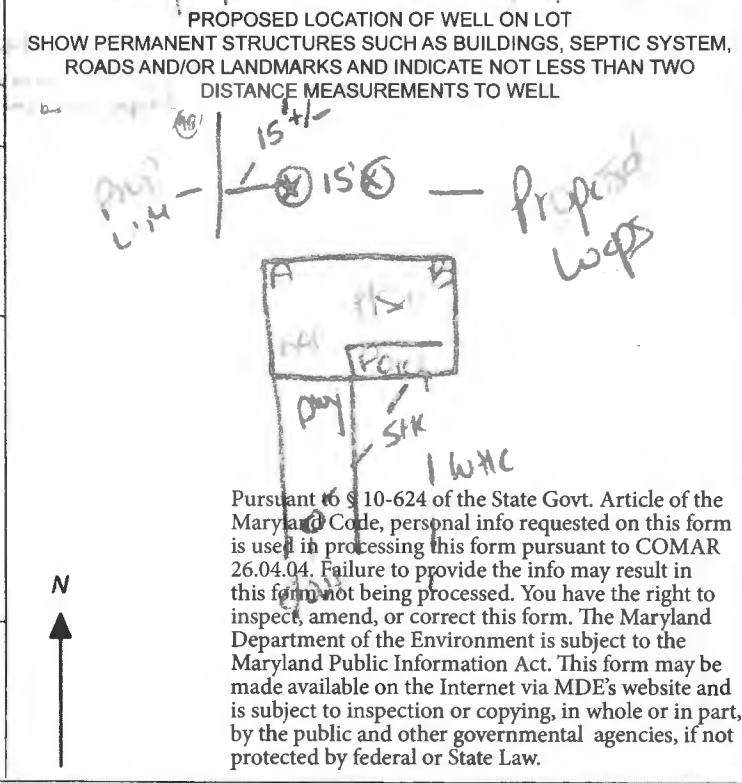
Not to be filled in by driller (MDE OR COUNTY USE ONLY)
 APPROP. PERMIT NUMBER G
 PERMIT No. H0-22-0160
 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS
 NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED-
 great bores from bottom to top

LOCATION OF WELL
 8 COUNTY Howard 21
 23 SUBDIVISION
 SECTION 46 LOT 115 48 50
 52 NEAREST TOWN Columbia 71

SOURCES OF DRILLING WATER
 1. Public
 2.
 3.
 6348 NW Daring Parkway 11 STREET ADDRESS 30
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH SOUTH WEST EAST
 34 115' 37 DISTANCE FROM ROAD
 ENTER FT OR MI 38 39
 TAX MAP: 0035 BLK: PARCEL 0134

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
 11/19/24
 COUNTY NAME Howard COUNTY NO. 13
 STATE SIGNATURE DATE ISSUED 11/16/24
 CO SIGNATURE DATE 11/16/25
 DON: 11/15/24 DOG: 11/11/24



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P.O. Box 129
Annapolis Junction, MD 20701
p) 301-776-8370
f) 301-776-8374
www.alliedwells.com

I, Tracy King, who resides at 6348 NW Daring Prince Way, Columbia MD

have instructed and informed Allied Well Drilling that I have

the permission of my neighbors who reside at 6345 Daring Prince Way

to use part of their lot for access so that Allied's well rig and equipment can have entrance to my property. I understand that I will be responsible for any damage or repairs

to said neighbor's property which includes, but is not limited to grass, shrubs, sidewalks, etc.

I have discussed this with my neighbor and have assured Allied and their representatives that

I have been given such authority by my neighbors at the property address listed above.

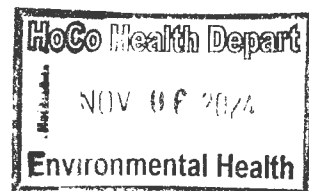
I am instructing Allied that I will assume all responsibilities and cost for any damages which occur as a result of Allied's equipment.

Signed: Tracy King Date: 11/3/2024

Printed: Tracy King

Neighbor: Alex B. Hurtt Date: 11/3/2024
Signed

Printed: Alex B. Hurtt Date: 11/3/2024

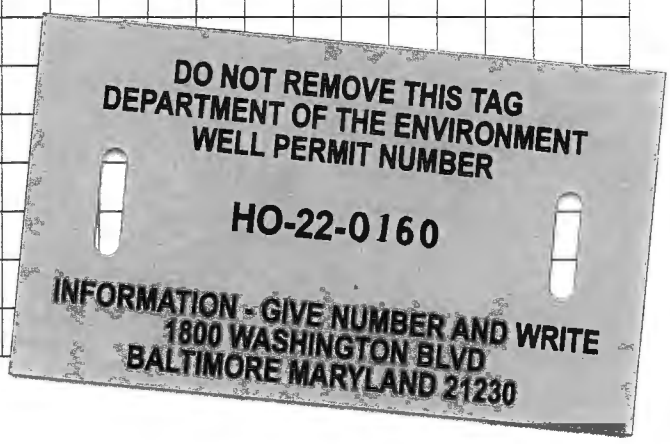
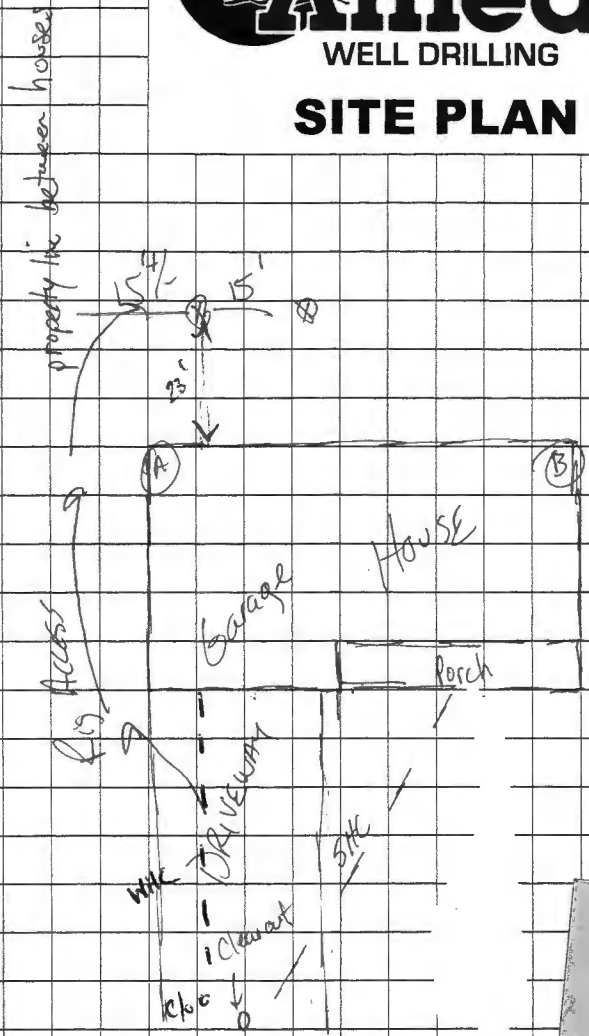


A B
29' 38"
25' 52"



Allied
WELL DRILLING
SITE PLAN

6348 Daring Prince Way
Columbia MD
2 wells @ 400'
closed loop geothermal



Sediment Control Protocol: SILT Fence

Distance From House: 24'
From Septic: N/A
From Sewer: 50' + (OUT FLOW)
From Property Line: 15' 7/8"
From Street: 50' + (OUT FLOW)

Trees Nearby: Yes, OK
Utility Issues: NO
Mats Needed: YES
Access For H/U: By others
Neighboring Tags: See Camps

Comments: Access agreement with neighbor to take rig between houses. USE MATS

Person Completing Form: Wes Wolfe

HOWARD COUNTY GROUTING PROCEDURE

Boreholes will be grouted from the bottom to the top via a tremie pipe and positive displacement pump. Bentonite grout, known as Quik-Grout will be used according to the manufacturer's specifications to achieve a consistency of at least 20% solids (24 gallons potable water/50 lb. sack of grout) and a permeability no more than $2.5 \text{ E}(-08) \text{ cm/sec}$. Grouting will be completed immediately after installing the geothermal loop and no later than twenty-four (24) hours after installing the geothermal loop. Open boreholes/annular space will be protected as necessary to prevent the entry of surface water or pollutants.

GRADE

EACH BORE HOLE (TYP.)

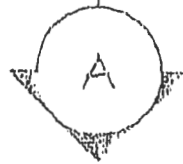
MINIMUM
HORIZONTAL BURY
DEPTH 4 FT

FOR CONT.
SEE PLANS

HORIZONTAL
PIPING

GROUT ENTIRE ANNULAR
SPACE AND VERTICAL
U-TUBE WITH (BENTONITE)
GROUT.

BORE DEPTH



DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

TAPE

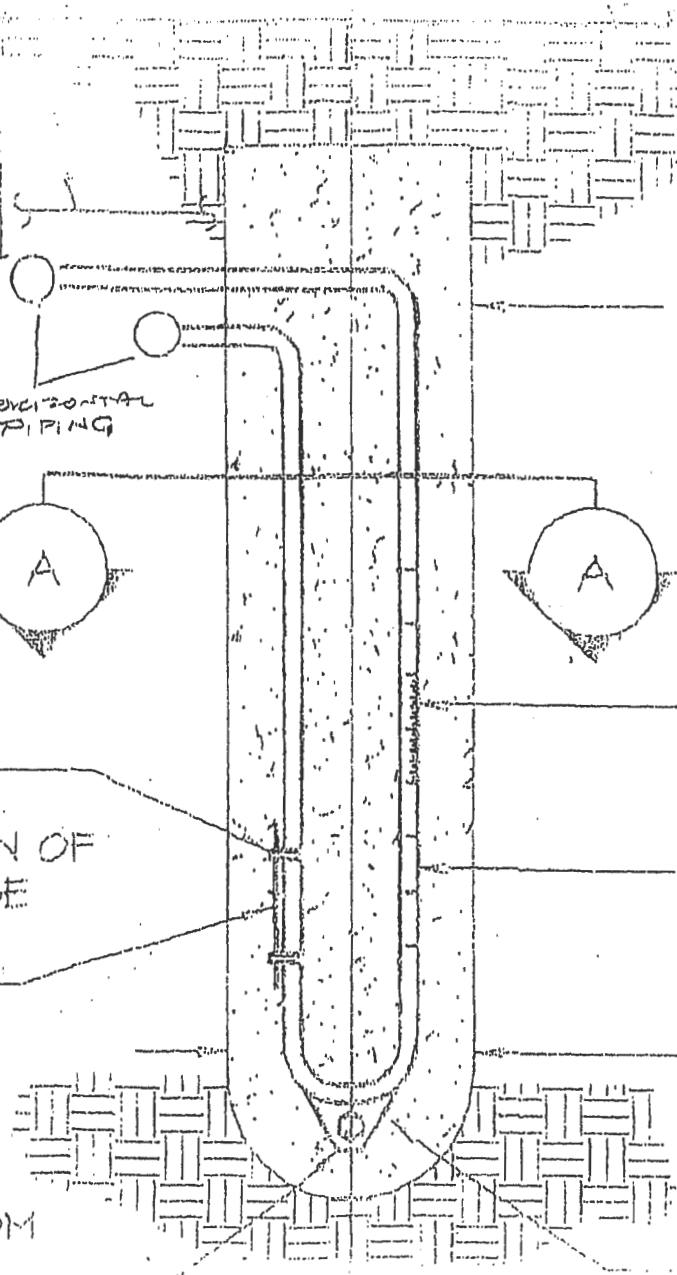
5 TO 10 FOOT SECTION OF
REBAR TO GUIDE TUBE
INTO BORE DURING
INSTALLATION

TYPICAL VERTICAL U TUBE
1.5 INCHES

TYPICAL BORE DIAMETER
6.0 INCHES

ANCHOR FITTING TO
PREVENT U-TUBE FROM
SURFACING AFTER
INSTALLATION

TYPICAL SOCKET U-BEND



Rappaport, Ryan

From: Tracy King <tracy_m_king@yahoo.com>
Sent: Tuesday, November 5, 2024 12:13 PM
To: Rappaport, Ryan
Subject: Re: Signed neighbor agreement

Hi Ryan -

Okay, I had Whitworth Excavating out here today, and they have marked the sewer coming out of the front of the house, under the front porch (with a caveat, of course, that “this is not a guarantee”...but they’re confident that it’s not coming out the back of the house). And my understanding is that Wes from Allied will be reaching out to you directly about the neighbor agreement.

Is there anything else you need from us? Can we move forward with getting permitted? :)

I may try to see if I can catch you on the phone as well.

Thank you!
Tracy

On Nov 4, 2024, at 8:01 AM, Rappaport, Ryan <RRappaport@howardcountymd.gov> wrote:

Good Morning Tracy, Thanks for the update and letter. I'm sorry I should have been a bit clearer, the letter will need to be signed by a representative with Allied. Please add this printed name and signature to the letter and resubmit. Let me know what happens with the sewer line. When I have the revised letter with an Allied signature and if the location of the sewer line meets the setback to the proposed geothermal wells, I'll be able to release the permit.

Hi Ryan - Just wanted to let you know that apparently I’m getting the sewer line marked either Monday or Tuesday this week. In the meantime, the signed neighbor agreement is attached.

Thanks,
Tracy

Rappaport, Ryan

From: Rappaport, Ryan
Sent: Tuesday, October 22, 2024 9:58 AM
To: Wes Wolfe
Cc: Page, Shepsura; Burns, Matthew; Wolf, Kevin; tracy_m_king@yahoo.com; caitlin@groundloop.com; justin@groudloop.com
Subject: RE: 6348 Daring Prince Way - geo permit

Hi Wes, I've been in touch with the homeowner and Ground Loop. Once they figure out where the sewer line comes out of the house, I'll let you know so you can revise your plan. We already know where the water line leaves the house and it doesn't match up with your plan.

The homeowner will be working on the agreement with the neighbor. I'm sure you'll be mentioned in the agreement letter as the driller, so you'll need to acknowledge it with a signature as well. Thanks

Ryan

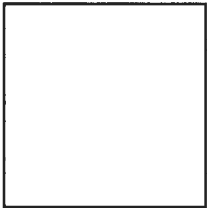
From: Wes Wolfe <weswolfe@alliedwells.com>
Sent: Tuesday, October 22, 2024 8:54 AM
To: Rappaport, Ryan <RRappaport@howardcountymd.gov>
Cc: Page, Shepsura <spage@howardcountymd.gov>; Burns, Matthew <mburns@howardcountymd.gov>; Wolf, Kevin <KWolf@howardcountymd.gov>
Subject: Re: 6348 Daring Prince Way - geo permit

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

I have forwarded this onto our client. They will have the water and sewer snaked and located and will also provide the paperwork for the access agreement.

Wes Wolfe

Director of Residential Services



P.O. Box 129
Annapolis Junction, MD 20701
301-606-7169
301-776-8370 office
301-776-8374 fax
alliedwells.com

On Tue, Oct 22, 2024 at 7:23 AM Rappaport, Ryan <RRappaport@howardcountymd.gov> wrote:

Hi Wes, I saw two cleanouts in the driveway and went inside with the homeowner to find where the water line leaves the house. Please ask your client where the sewer line leaves the house. What if it leaves the house in the back and wraps around the house to the main line in the front? That would put it dangerously close to your proposed well locations. Please also ask your client to provide the Health Dept with a copy of that agreement signed by both homeowners. Be advised, as I said in the first email, the water line on the drawing you provided is wrong. The Health Dept will not release this permit until the above listed items are resolved and/or corrected. Thanks

Ryan

From: Wes Wolfe <weswolfe@alliedwells.com>
Sent: Monday, October 21, 2024 3:13 PM
To: Rappaport, Ryan <RRappaport@howardcountymd.gov>
Cc: Page, Shepsura <spage@howardcountymd.gov>; Burns, Matthew <mburns@howardcountymd.gov>; Wolf, Kevin <KWolf@howardcountymd.gov>
Subject: Re: 6348 Daring Prince Way - geo permit

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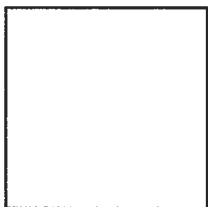
We were given the locations by our customer we don't work for the homeo, wner

There is an agreement to go between the houses with our equipment.

Water shut off and sewer clean out are visible on the property per the drawing.

Wes Wolfe

Director of Residential Services



P.O. Box 129

Annapolis Junction, MD 20701

301-606-7169

301-776-8370 office

301-776-8374 fax

alliedwells.com

On Mon, Oct 21, 2024 at 3:11 PM Rappaport, Ryan <RRappaport@howardcountymd.gov> wrote:

Hi Wes, a few comments/questions. I met with the homeowner Tracy today and found where the water line is leaving the house and it's not where you have it on the plan. I also couldn't find where the sewer line exits the house. How did you know that it's where it is on your site plan? If the water line location is wrong, why should I believe that the sewer line location is right? Please elaborate on how you located these lines. Finally, how are you planning on getting a rig into the backyard with the houses so close together? Thanks

Ryan Rappaport, LEHS

Bureau of Environmental Health

Howard County Health Department

8930 Stanford Blvd.

Columbia, MD. 21045

Phone 410-313-1781

Fax 410-313-2648

www.co.ho.md.us



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RECEIPT

Howard County, MD
HOWARD COUNTY HEALTH DEPARTMENT
ASCEND ONE BUILDING
Columbia, MD 21045
8930 STANFORD BLVD

Application: WS-WP-24-03010

Application Type: EnvHealth/Well and Septic/Installation/Application

Address: 6348 DARING PRINCE WAY, Columbia, 21044

Receipt No.	10880					
Payment Method	Ref Number	Amount Paid	Payment Date	Cashier ID	Received	Comments
Check	33673	\$160.00	10/15/2024	SMARTIN		

Owner Info.: KING TRACY
6348 DARING PRINCE WAY
COLUMBIA, MD 21044

Work Description: