

C 1 71888 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)

ST/CO USE ONLY
 DATE Received MM DD YY
 8 03 23

DATE WELL COMPLETED MM DD YY
 15 12 23

Depth of Well 22 320 26
 (TO NEAREST FOOT)

PERMIT NO.
 FROM "PERMIT TO DRILL WELL"
 110-20-0048

4/5/23

28 29 30 31 32 33 34 35 36 37

OWNER
 WELL SITE ADDRESS
 SUBDIVISION SECTION LOT

WELL LOG
 Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR
 COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
Top Soil	0	1	
Brn Soil	1	10	
Brn/tra + Shst	10	145	
Gray Rock	145	170	
Gray Brn Rock	170	320	

2 placed logs

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

TYPE OF GROUTING MATERIAL (Circle one)
 CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 32 NO. OF POUNDS 7600
 GALLONS OF WATER 800
 DEPTH OF GROUT SEAL (to nearest foot)
 from 48 TOP 52 ft. to 54 BOTTOM 58 ft.
 (enter 0 if from surface)

CASING RECORD
 casing types insert appropriate code below
 ST STEEL CO CONCRETE
 PL PLASTIC OT OTHER

MAIN CASING TYPE
 Nominal diameter top (main) casing (nearest inch): 60 61 63 64 66 70
 Total depth of main casing (nearest foot):

OTHER CASING (if used)
 diameter inch depth (feet) from to

SCREEN RECORD
 screen type or open hole
 ST STEEL BR BRASS HO OPEN HOLE
 PL PLASTIC OT OTHER

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 8 9

PUMPING RATE (gal. per min.) 11 15

METHOD USED TO MEASURE PUMPING RATE

WATER LEVEL (distance from land surface)

BEFORE PUMPING 17 20 ft.

WHEN PUMPING 22 25 ft.

TYPE OF PUMP USED (for test)

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

NUMBER OF UNSUCCESSFUL WELLS: 0

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. 1 M D 598

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 D

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

C 2 DEPTH (nearest ft.)

1	8	9	11	15	17	21
2	23	24	26	30	32	36
3	38	39	41	45	47	51

SLOT SIZE 1 2 3

DIAMETER OF SCREEN (NEAREST INCH)
 56 60 68

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

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) 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 } LAND SURFACE (nearest foot)
 - below }

LATITUDE 39.24556
 LONGITUDE 77.86195
 (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.

02300687

EMERGENCY/TEMP NO. IF ANY

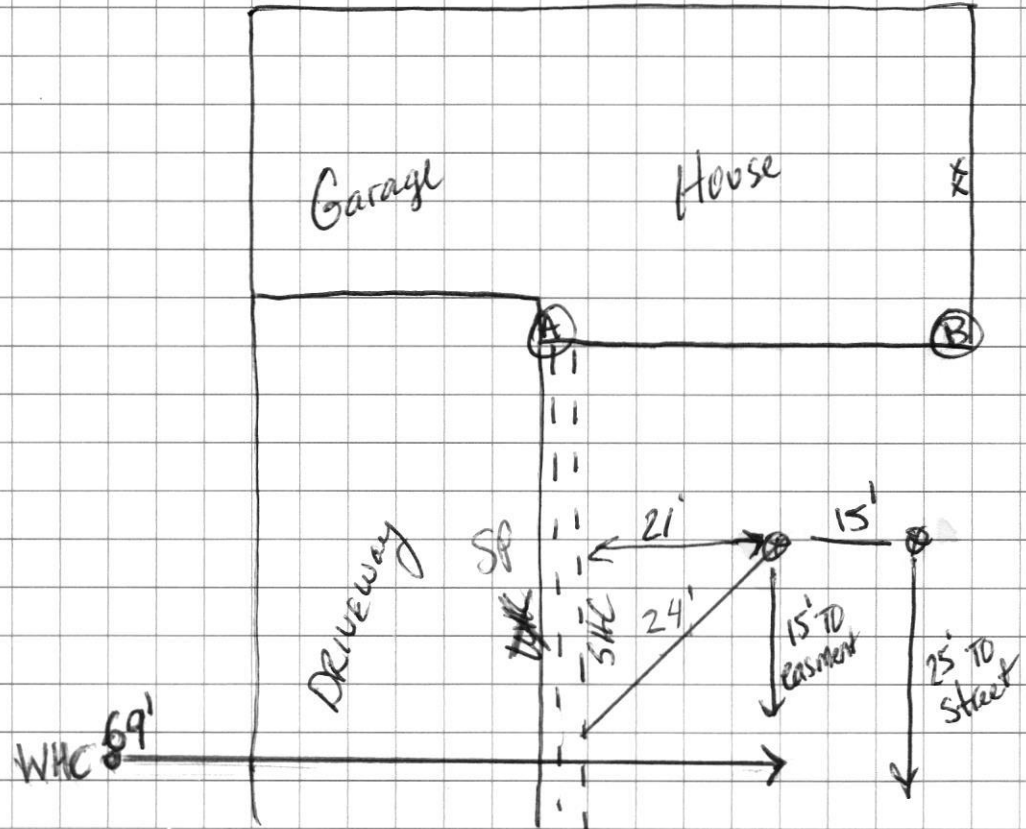
B 1	86308	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 512127 please type	STATE PERMIT NUMBER HO-20-0248 70 fill in this form completely 79		
Date Received (APA) 12/11/22 8 MM DD YY 13		OWNER INFORMATION				
15 Last Name Meuserger T/E David + Adora		34 First Name		B 3 LOCATION OF WELL Howard Centennial Lake S I SECTION 23 Ellicott H City NEAREST TOWN		
36 Street or RFD 10161 Maxine Street		55				
57 Town Ellicott City MD		76 Zip 21042				
70 State		72				
DRILLER INFORMATION		B 4 SOURCES OF DRILLING WATER 1. Public 2. 3. 10161 Maxine St STREET ADDRESS ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) 34 35' 37 DISTANCE FROM ROAD ENTER FT OR MI 38 39 TAX MAP: 0030 BLK: PARCEL 0058				
Driller's Name Wesley Wolfe M W D 598					81 License No.	
Firm Name Allied Well Drilling					Address PO Box 129 Annapolis Junction MD 20721	
Signature Wesley Wolfe					Date 12/15/22	
B 2 WELL INFORMATION		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL Howard COUNTY NAME 13 COUNTY NO. STATE SIGNATURE DATE ISSUED 12/29/22 Show Plan 12/29/23 43 MM DD YY 48 CO SIGNATURE EXP. DATE DON: 11/6/23 DOG: 11/8/23 OOH: N/A				
APPROX. PUMPING RATE (GAL. PER MIN.) 8 12						
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20		PROPOSED LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL A B 50' 35' 44' 40' Gar Hisc A B 138' drilled will switch N 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.				
USE FOR WATER (CIRCLE APPROPRIATE BOX)						
<input type="checkbox"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input checked="" type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="checkbox"/> PUBLIC WATER SUPPLY WELL <input type="checkbox"/> TEST, OBSERVATION, MONITORING <input type="checkbox"/> OPEN LOOP GEOTHERMAL <input checked="" type="checkbox"/> CLOSED LOOP GEOTHERMAL						
APPROXIMATE DEPTH OF WELL 320 24 28 FEET		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				
APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH						
REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX)		REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED 39 <input checked="" type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="checkbox"/> THIS WELL WILL DEEPEIN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 52				
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)						
APPROX. PERMIT NUMBER ----- G -----						
PERMIT No. HO-20-0248 70 71 72 73 74 75 76 77 78 79						
SPECIAL CONDITIONS NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED- Group from bottom to top WS-201-22-02986						

AB
SD 35
H 40



HO-20-0248
10161 Maxine St
Ellicott City Md
2 Wells @ 320' each
closed loop geothermal

well site OK
SP 12/29/22



Sediment Control Protocol: SILT Fence

Distance From House: 35'
From Septic: N/A
From Sewer: 21'
From Property Line: 15'
From Street: 25'

Trees Nearby: Yes Take Pole saw
Utility Issues: NO
Mats Needed: Yes
Access For H/U: Yes - Stubin only
Neighboring Tags: See CompS

Comments: _____

Person Completing Form: Wes Wolfe

RECEIPT

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

Application: WS-WP-22-03786
Application Type: EnvHealth/Well and Septic/Installation/Application
Address: 10161 Maxine ST,

Receipt No.	5491					
Payment Method	Ref Number	Amount Paid	Payment Date	Cashier ID	Received	Comments
Check	29037	\$160.00	12/19/2022	JUKING		Receipt # 72727
Work Description:	Well Permit					

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.)

CONCRETE

HORIZONTAL BURY
DEPTH 4 FT

FOR CONT.
SEE PLANS

HORIZONTAL
PIPING

BORE DEPTH

TAPE

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

ANCHOR FITTING TO
PREVENT U-TUBE FROM
SURFACING AFTER
INSTALLATION

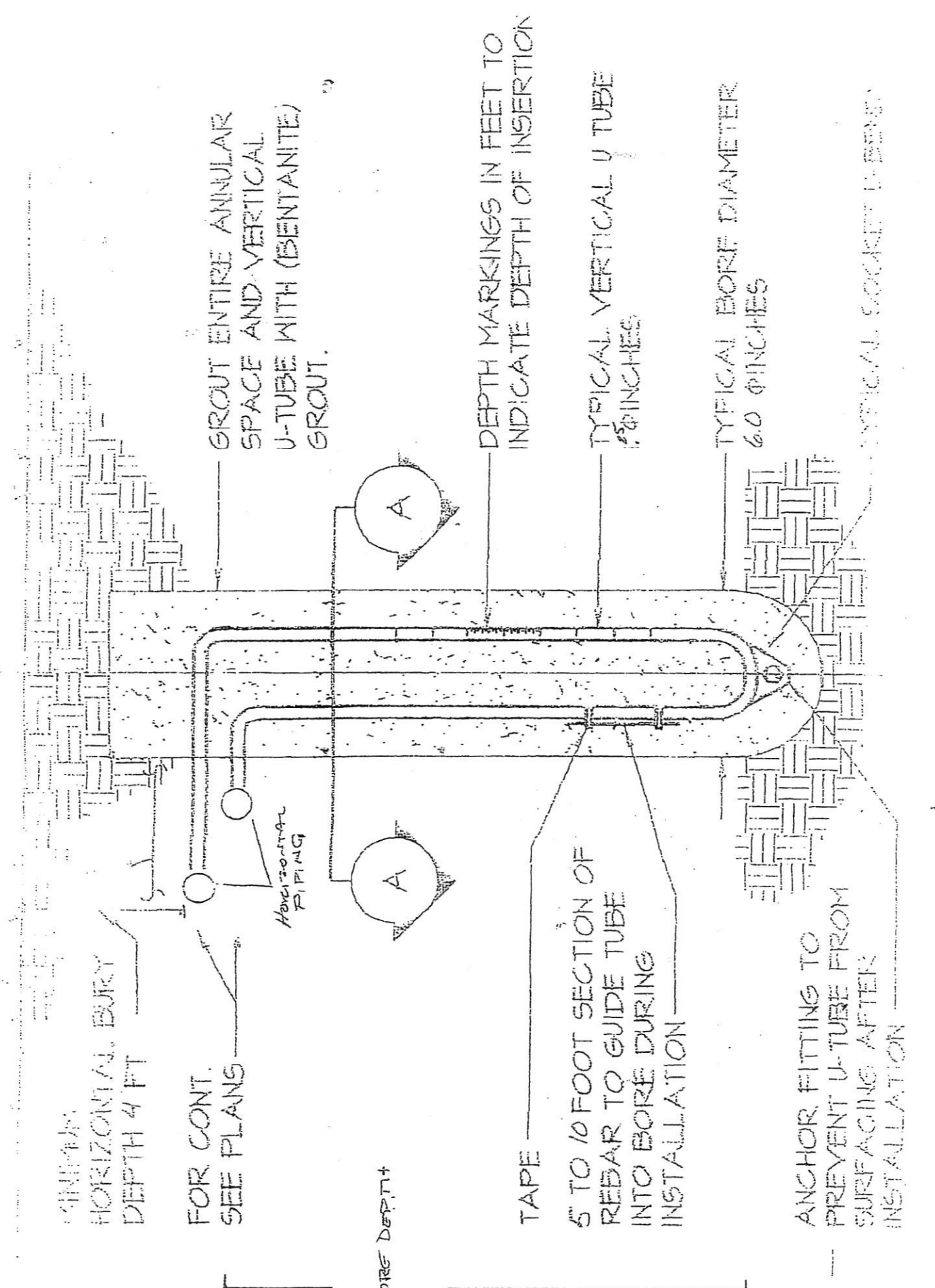
GROUT ENTIRE ANNULAR
SPACE AND VERTICAL
U-TUBE WITH (BENTONITE)
GROUT.

DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U TUBE
1.5" PINCHES

TYPICAL BORE DIAMETER
6.0" PINCHES

TYPICAL SOCKET DEPTH



FILE INQUIRY NOTES

DATE	RESULTS OF REVIEW FOR FILE
12/28/22	onsite for WSI. Site plan had wrong public water location.
	staked wells meet setbacks (SP)
1/12/23	<p>- Met w/ driller, MDE compliance, DPW (illicit discharge § C1D) and DRP to discuss next steps for drilling activities. Driller will be cited (local § state) and has been ordered to remove all discharge from the wooded area. Possible contamination of Centennial Lake too, DPW's DRP will follow up on that. MDE § DPW want to meet onsite 1/13/23 for another inspection to see the cleanup progress. MDE said that the driller could continue drilling as long as there is absolutely no discharge and all material is contained on the property. (2A)</p>
1/12/23	<p>Onsite for well drilling inspection, 1/2 silt fence's did not meet compliance. Looks like hay bales were placed on top of discharge from #111, Not enough clean up. Drillers at 280' when leaving site. (SP)</p>
1/13/23	<p>Onsite to meet see well drilling. Foaming agent was used again, drillers could not fully contain agent. Pump was used to move foaming agent in a different silt fence. Drillers set 150' of steel casing. Met w/ MDE & DPW. (SP)</p>
1/17/23	Driller left hole open for more than 72 hours, no grout observed.
1/18/23	Driller finishing up grout for 1 st hole
	Allied finished both boreholes grout

10161 Maxine Street, Ellicott City, MD. 21042 – sediment and foam from drilling activities running into a stream (MD State Waters) 1/11/2023





10161 Maxine St.

1/12/2023

Joint inspection:

MDE

CID

DPW - illicit discharge

DRP

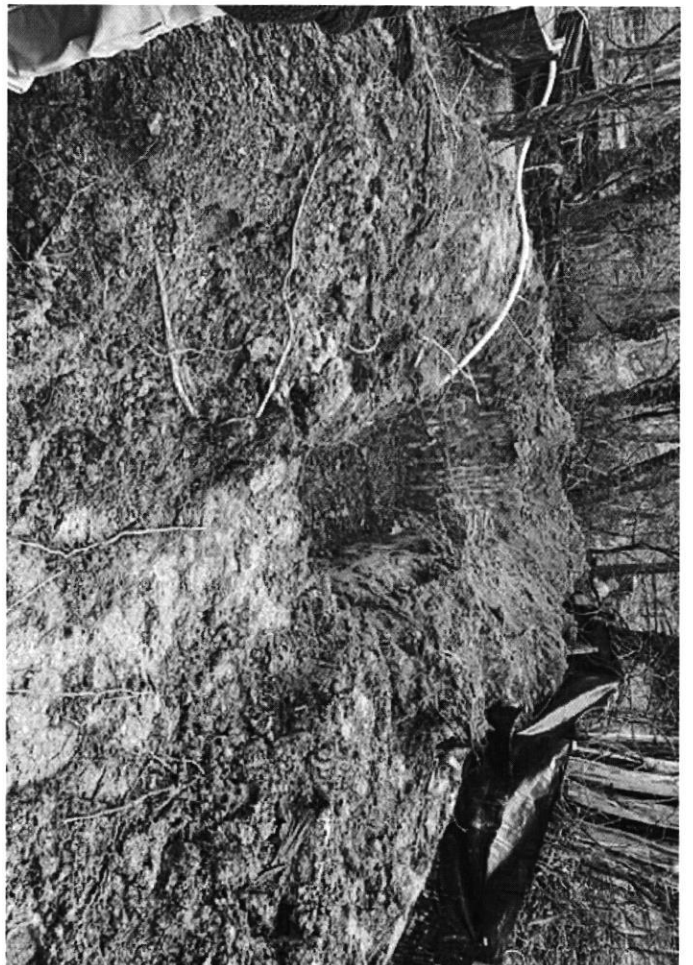
Health Dept

Remediation onsite has begun
and drilling to commence
later today.

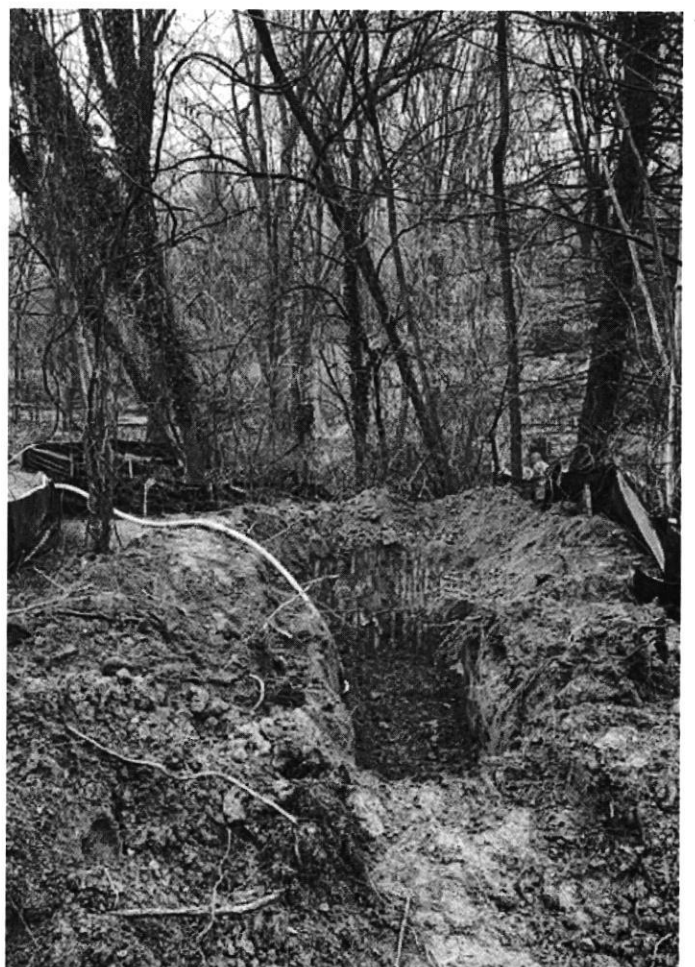
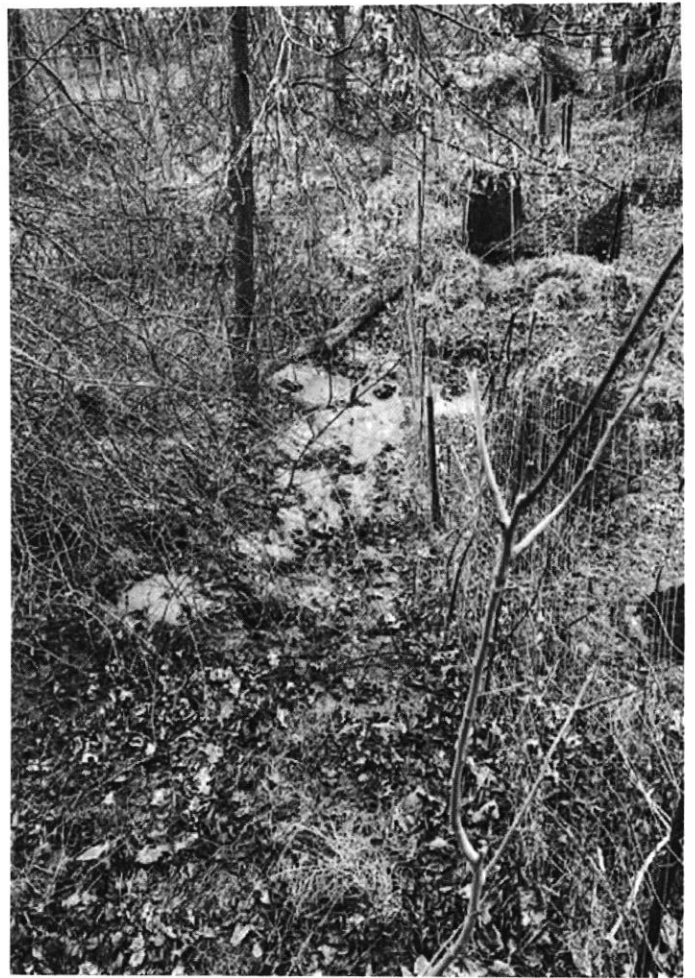
(PID)



1/12/23



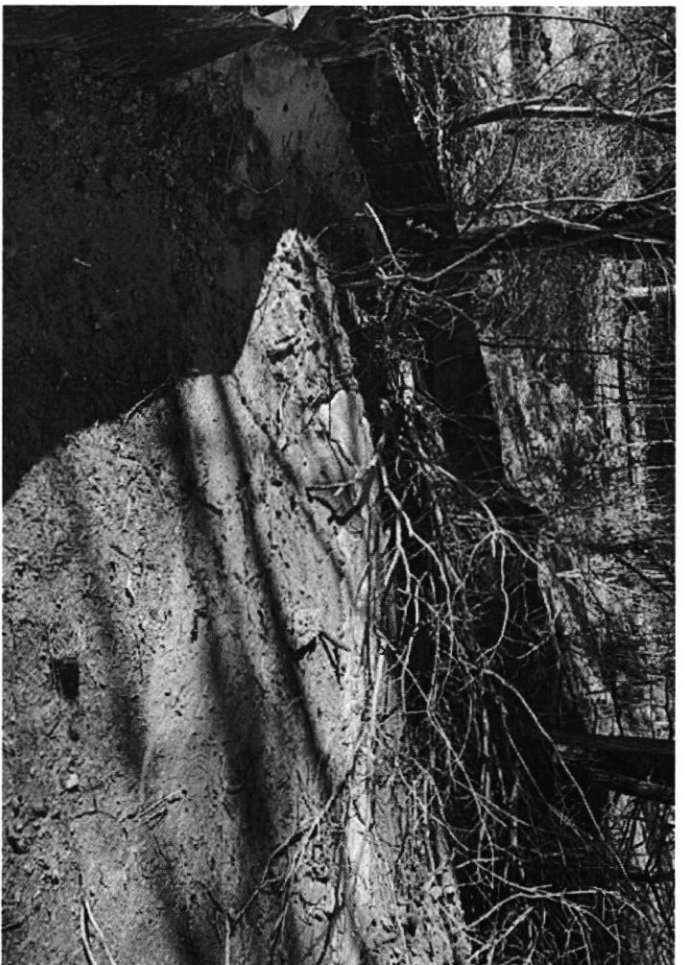
1/12/23



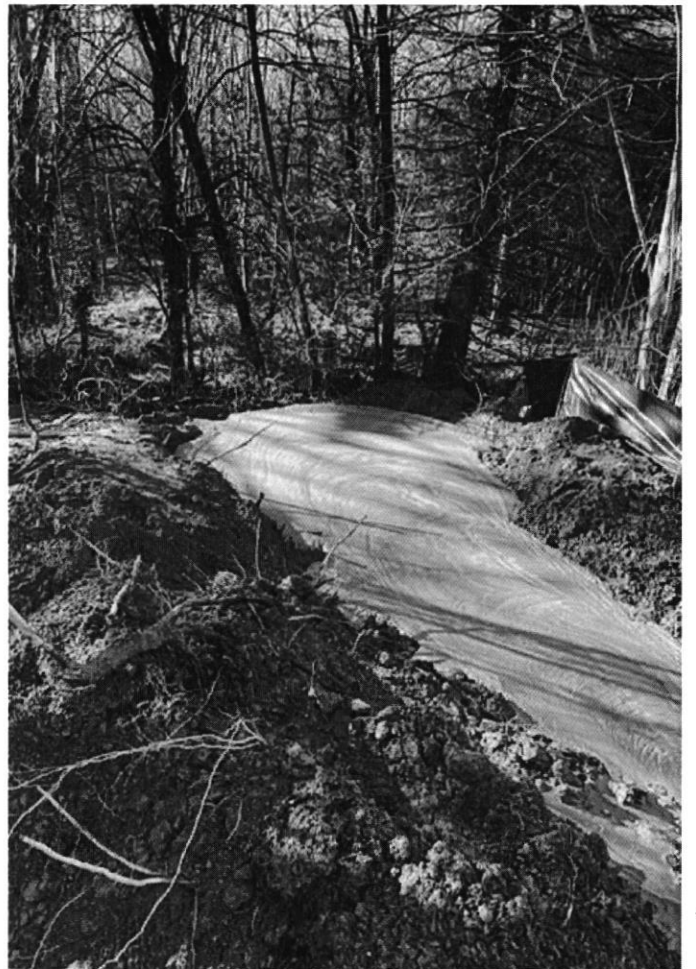
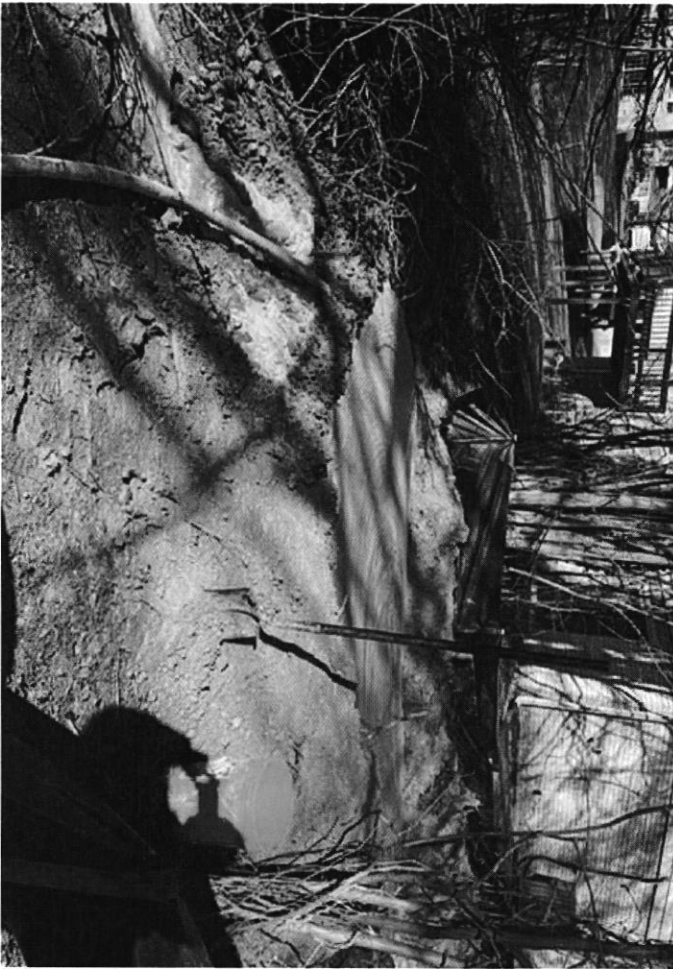
1/12/23



1/13/23

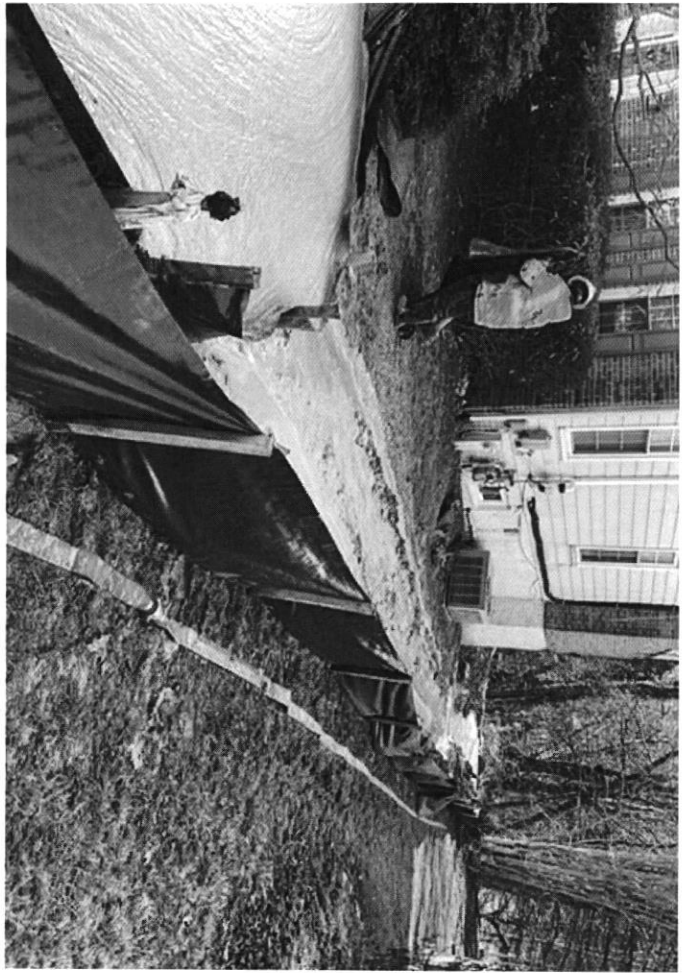


1/13/23





1/13/23



1/13/23



1/17/23 - wells not grouted since 1/13/23

1/12/23 - people on site for inspection

①

James Reed
Park Operations Supervisor I
(o) 410-313-7271
(c) 443-521-8701



Howard County Government
Department of Recreation and Parks
10000 Route 108, Ellicott City, MD 21042
jmreed@howardcountymd.gov

②

Kyle Topping
Regulation Supervisor
Construction Inspection Division
Bureau of Engineering
410-313-1882

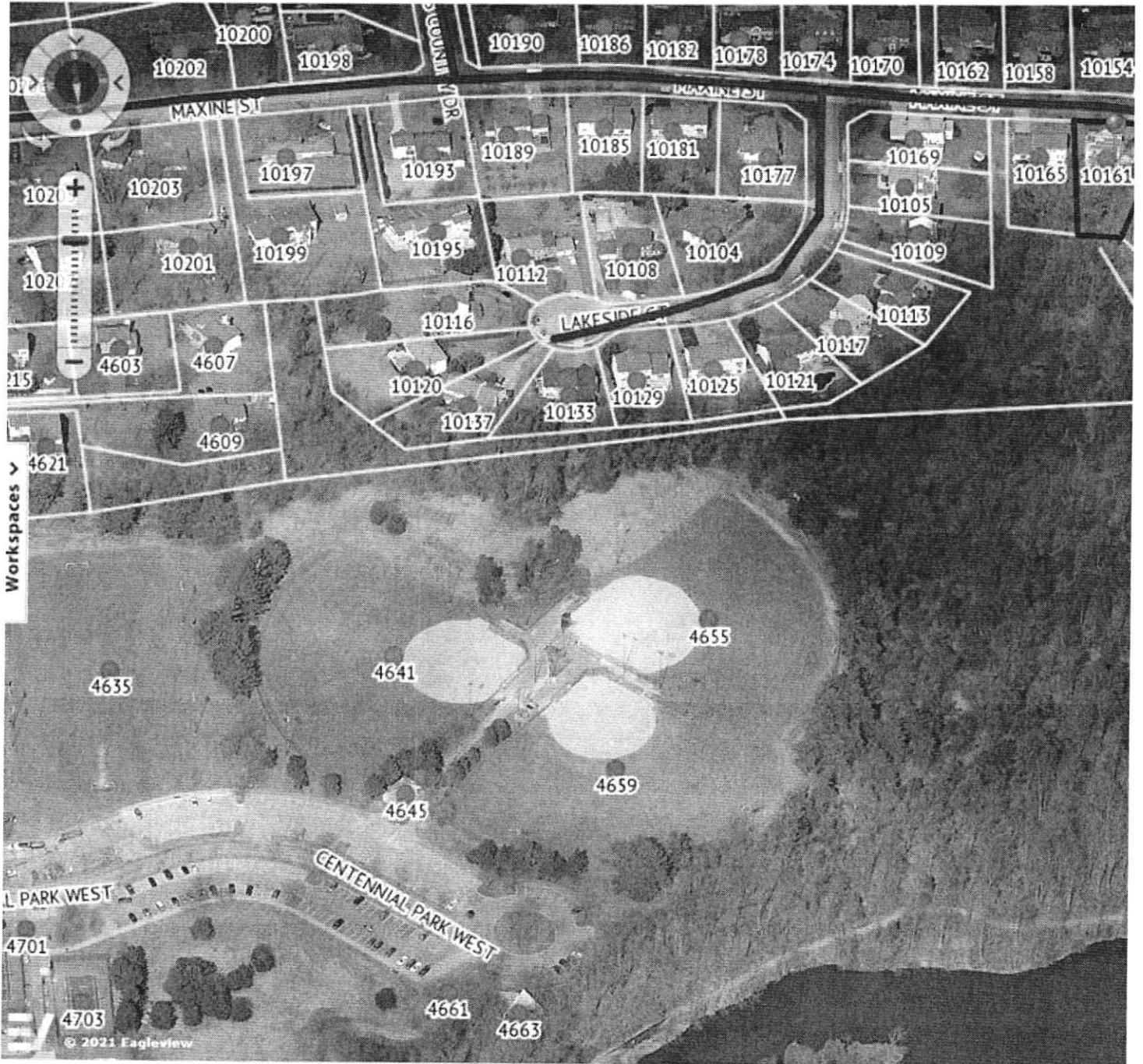


Howard County Government
Department of Public Works
7125 Riverwood Drive, Suite B, Columbia, MD 21044
ktopping@howardcountymd.gov

- ③ Cynthia Alden - Illicit Discharge DPW
- ④ Max Anthony - " "
- ⑤ Keven Bull - MDE Compliance

Rappaport, Ryan

From: Wolf, Kevin
Sent: Thursday, January 12, 2023 9:41 AM
To: John Boris -MDE- (john.boris@maryland.gov)
Cc: Rappaport, Ryan; Page, Shepsura; Cabahug, Joseph
Subject: RE: Maxine St Ellicott City



From: Wes Wolfe <weswolfe@alliedwells.com>
Sent: Thursday, January 12, 2023 9:02 AM

To: Wolf, Kevin <KWolf@howardcountymd.gov>; Rappaport, Ryan <RRappaport@howardcountymd.gov>

Cc: Andy Capelle <acapelle@alliedwells.com>

Subject: Maxine St Ellicott City

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

Here are the pictures requested. We have cleaned up the areas in question. Placed a 15'x15' sediment bag surrounded in Md spec silt fence and dug a temporary sediment pit 8'x5' prior to bag. All drilling cuttings and drilling agents are contained. Please advise that we are good to proceed. Also as discussed we will be using steel casing on the remaining wells to avoid the time to set the temporary pvc casing









Wes Wolfe
301-606-7169

Rappaport, Ryan

From: Alden, Cynthia
Sent: Thursday, January 12, 2023 8:55 AM
To: Rappaport, Ryan
Cc: Monde, Michele
Subject: RE: Drill and Grout 01/13
Attachments: Kevin Bull.vcf

Thanks Ryan. The new MDE stormwater inspector for Howard County is Kevin Bull, so I will forward this



email to him.
have already discharged?

Have you required Allied to clean up the sediment they

Thanks,

Cynthia

From: Rappaport, Ryan <RRappaport@howardcountymd.gov>
Sent: Thursday, January 12, 2023 8:42 AM
To: Alden, Cynthia <CAlden@howardcountymd.gov>; Anthony, Maxwell <manthony@howardcountymd.gov>
Cc: Williams, Jeffrey <jewilliams@howardcountymd.gov>; Wolf, Kevin <KWolf@howardcountymd.gov>; Cabahug, Joseph <jcabahug@howardcountymd.gov>; Page, Shepsura <spage@howardcountymd.gov>; 'john.boris@maryland.gov' <john.boris@maryland.gov>; kevin.bull@maryland.gov; Wes Wolfe <weswolfe@alliedwells.com>; 'acapelle@alliedwells.com' <acapelle@alliedwells.com>
Subject: FW: Drill and Grout 01/13

Good morning, I sent this at the end of the day yesterday and forgot to cc you. As soon as my supervisor, Kevin Wolf, figures out how to proceed this morning, we'll reach out. Until then, Allied will not continue drilling at this location or at the property next door. They'll have to show us how they plan to contain the material moving forward before they start up again.

Ryan

From: Rappaport, Ryan
Sent: Wednesday, January 11, 2023 3:04 PM
To: Donna Perez <dperez@alliedwells.com>; Martin, Sharhonda <smmartin@howardcountymd.gov>; Wolf, Kevin <KWolf@howardcountymd.gov>; Cabahug, Joseph <jcabahug@howardcountymd.gov>; Page, Shepsura <spage@howardcountymd.gov>
Cc: Andy Capelle <acapelle@alliedwells.com>; Wes Wolfe <weswolfe@alliedwells.com>; 'john.boris@maryland.gov'

<john.boris@maryland.gov>; Williams, Jeffrey <jewilliams@howardcountymd.gov>; punam.tyagi@maryland.gov

Subject: RE: Drill and Grout 01/13

Donna, Drilling activities at these 2 locations on Maxine St needs to stop until the Health Dept can take a look at how you'll be containing this sediment and foaming agent. MDE has to be notified and is cc'd on this communication.

Ryan

From: Donna Perez <dperez@alliedwells.com>

Sent: Wednesday, January 11, 2023 2:50 PM

To: Martin, Sharhonda <smmartin@howardcountymd.gov>; Rappaport, Ryan <RRappaport@howardcountymd.gov>; Wolf, Kevin <KWolf@howardcountymd.gov>; Cabahug, Joseph <jcabahug@howardcountymd.gov>; Page, Shepsura <spage@howardcountymd.gov>

Cc: Andy Capelle <acapelle@alliedwells.com>; Wes Wolfe <weswolfe@alliedwells.com>

Subject: Drill and Grout 01/13

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

Per your conversation with Wes we will be drilling tomorrow and grouting on Friday at 9am.

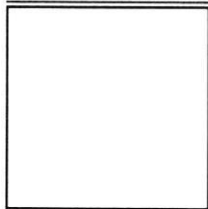
10157 Maxine Street
Ellicott City

Any questions please call Wes at 301-606-7169.

Thanks and have a great evening.

--

Donna Perez
Allied Well Drilling
301-776-8370
dperez@alliedwells.com
www.alliedwells.com



Look us up on Google and give us a review of your experience.

Rappaport, Ryan

From: Rappaport, Ryan
Sent: Thursday, January 12, 2023 8:42 AM
To: Alden, Cynthia; Anthony, Maxwell
Cc: Williams, Jeffrey; Wolf, Kevin; Cabahug, Joseph; Page, Shepsura; 'john.boris@maryland.gov'; kevin.bull@maryland.gov; Wes Wolfe; 'acapelle@alliedwells.com'
Subject: FW: Drill and Grout 01/13
Attachments: 10161 Maxine St 1.11.2023.docx

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Cc: Andy Capelle <acapelle@alliedwells.com>; Wes Wolfe <weswolfe@alliedwells.com>
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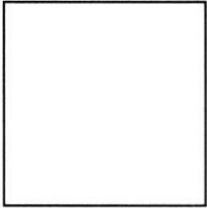
10157 Maxine Street
Ellicott City

Any questions please call Wes at 301-606-7169.

Thanks and have a great evening.

--

Donna Perez
Allied Well Drilling
301-776-8370
dperez@alliedwells.com
www.alliedwells.com



Look us up on Google and give us a review of your experience.