

C1 55709

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

FILL IN THIS FORM COMPLETELY PLEASE TYPE

COUNTY NUMBER XIII

ST/CO USE ONLY DATE RECEIVED MM DD YY 05 27 18

DATE WELL COMPLETED MM DD YY 03 02 18

Depth of Well 22 560 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-17-0235

OWNER SIMPSON Harry WELL SITE ADDRESS 5232 Green Bridge TOWN Dayton SUBDIVISION SIMPSON & DENAULT SECTION LOT 13

WELL LOG Not required for driven wells

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

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries like BROWN SILT, JAN SAPROLITE, GRAY & BLACK SCHIST, etc.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N) TYPE OF GROUTING MATERIAL (C/M, B/C) CEMENT BENTONITE CLAY NO. OF BAGS 12 NO. OF POUNDS 600 GALLONS OF WATER 240 DEPTH OF GROUT SEAL (to nearest foot) from 0 to 58 ft.

CASING RECORD

MAIN CASING TYPE ST Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 60

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

SCREEN RECORD

screen type or open hole (S/T, B/R, H/O, P/L, O/T) insert appropriate code below

DEPTH (nearest ft.)

Table with columns: E, A, C, H, S, R, E, N and rows for slot size and diameter of screen.

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED (Y/N)

CIRCLE APPROPRIATE LETTER 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. M D 576 DRILLERS SIGNATURE DR. HALL - DRILLER LIC. NO. M D 594

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

PUMPING TEST

HOURS PUMPED (nearest hour) 3 45 MIN BLOWN YIELD WITH ORZIL 50 G.P.M. PUMPING RATE (gal. per min.) 12 G.P.M. METHOD USED TO MEASURE PUMPING RATE WATCH & BUCKET WATER LEVEL (distance from land surface) BEFORE PUMPING 5 ft. WHEN PUMPING 61 ft. TYPE OF PUMP USED (for test) S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (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 - below 2 (nearest foot)

LATITUDE 39.22742 LONGITUDE 77.00055 (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.

TA=3/15/18

B 1 34356

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

Ho-17-0235

562336 please type

fill in this form completely

Date Received (APA)

OWNER INFORMATION

8 MM DD YY 13

Simpson Harry

15 Last Name Owner First Name 34

5232 Green bridge Road

36 Street or RFD 55

Dayton MD 21036

57 Town 70 State 72 Zip 76

B 3

LOCATION OF WELL

Howard

8 COUNTY 21

Simeson/Denault Properties

23 SUBDIVISION 42

SECTION LOT 13

44 46 48 50

Dayton

52 NEAREST TOWN 71

DRILLER INFORMATION

Randall Alexander MWD 576

Driller's Name 76 License No. 81

Alexander's Well Drilling

Firm Name

126 West Main St. P.O. Box

Address Fairfield, PA 17320 443

Signature Date 10/16/2017

B 4

SOURCES OF DRILLING WATER

- 1. well water

5232 Green Bridge Road

11 STREET ADDRESS 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



34 1600 37 DISTANCE FROM ROAD FT

ENTER FT OR MI 38 39

TAX MAP: 0027 BLK: 0018 PARCEL 0036

B 2

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
- F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
- I INDUSTRIAL, COMMERCIAL, DEWATERING
- P PUBLIC WATER SUPPLY WELL
- T TEST, OBSERVATION, MONITORING
- O OPEN LOOP GEOTHERMAL
- C CLOSED LOOP GEOTHERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard COUNTY NAME

XIII COUNTY NO.

STATE SIGNATURE INSERT S

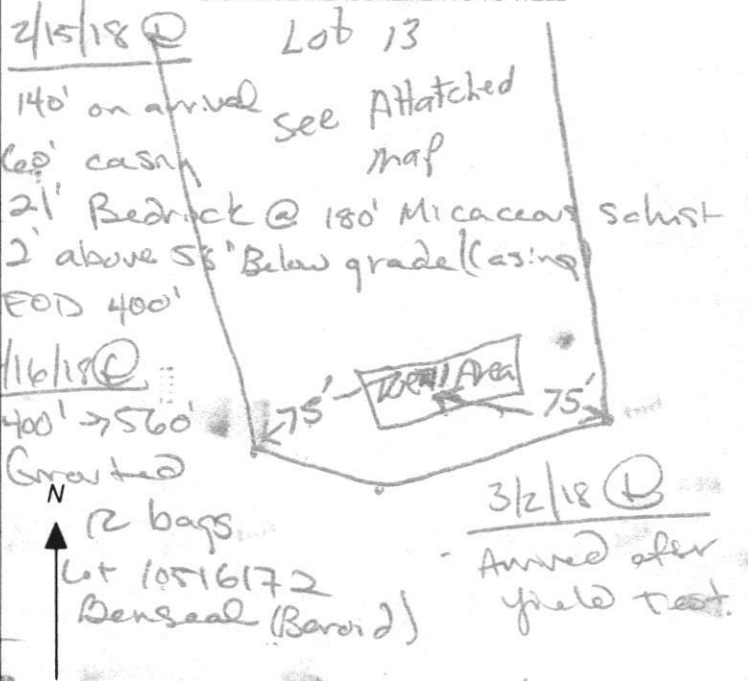
DATE ISSUED 02/09/18

CO SIGNATURE EXP. DATE

Don: 02/15/18 Doc: 2/16/18 Day: 3/2/18

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



APPROXIMATE DEPTH OF WELL 500 FEET

APPROXIMATE DIAMETER OF WELL 6 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 DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- N THIS WELL WILL NOT REPLACE AN EXISTING WELL
- Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
- S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
- D THIS WELL WILL DEEPEM AN EXISTING WELL

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

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

APPROX. PERMIT NUMBER G

PERMIT No. Ho-17-0235

SPECIAL CONDITIONS

NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Sodium Chloride, TDs, Nitrate Samples Required

Yield Test Data Sheet

#: _____

Maryland State Well Permit: HO 17-0235
 Date of Yield Test: 3/2/18
 Subdivision Name: SIMPSON & DENAULT
 Section: _____ Lot: 13
 Street Address: 5232 Green Bridge Rd.

Pump Start Time:	Static Water Level:	Rate method:	Calculated flow in gallons per minute (gpm)
<u>8:00</u>	<u>5</u> ft.	(J) Time to fill <u>1</u> gal. bucket	
		() Flow meter reading (if used)	

Water level and pumping rate must be recorded every 15 minutes

Time	Water level below M.P.	Time to fill bucket	Pumping rate:
1 8:00	5 ft.	5	12 gpm
2 8:15	49 ft.	5	12 gpm
3 8:30	59 ft.	5	12 gpm
4 8:45	61 ft.	5	12 gpm
5 9:00	61 ft.	5	12 gpm
6 9:15	61 ft.	5	12 gpm
7 9:30	61 ft.	5	12 gpm
8 9:45	61 ft.	5	12 gpm
9 10:00	61 ft.	5	12 gpm
10 10:15	61 ft.	5	12 gpm
11 10:30	61 ft.	5	12 gpm
12 10:45	61 ft.	5	12 gpm
13 11:00	61 ft.	5	12 gpm
14 11:15	61 ft.	5	12 gpm
15 11:30	61 ft.	5	12 gpm
16 11:45	61 ft.	5	12 gpm
17	ft.		gpm
18	ft.		gpm
19	ft.		gpm
20	ft.		gpm
21	ft.		gpm
22	ft.		gpm
23	ft.		gpm
24	ft.		gpm
25	ft.		gpm
26	ft.		gpm
27	ft.		gpm
28	ft.		gpm
29	ft.		gpm
30	ft.		gpm

Well Data
 Measuring Point (MP): TOP OF CASING START →
(e.g., "Top of casing")
 Distance from MP to ground surface: 2 ft.
 Well Depth: 560 ft.
 Well Driller: ALEXANDER WELL DRILLING
WILLIAM L. HERTZ JSD-095

This form must be submitted with the State of Maryland Well Completion Report

Submit to: _____

NOTES: LOT #13

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

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: Fogale's Well Pump & Water Treatment, LLC Telephone #: 410-795-1535
Address: PO Box 63
Woodbine, MD 21797

Must circle one: Licensed Plumber / Licensed Well Driller / Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): DAVID C FOGALE License #: MSD226

*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: Toll Brothers Telephone #: _____
Subdivision: Willow Creek Lot #: 13 Well Tag #: HO-17-0235 ✓
Site Address: 6501 Maire Ct
Dayton, MD 21036

Submersible Pump Data
Make: Grandfos
Model #: 1050E15-290
Pump Capacity: 15
Well Yield: 12

Pitless Adapter
Make: Campbell +
Model #: NA
GPM Depth: 36" (36" min)
GPM NSF/WSC approved: YES

Well Cap and Electric Conduit
Two piece watertight cap: YES
Screened, vented well cap: YES
Cap secured to casing: YES
Conduit min 18" B.G.: YES
Conduit secured to well cap: YES

Depth of well encountered at time of pump installation: 560 (feet)
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Must circle one: Torque restrictors / Cable guards / Other acceptable method used
Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing NA

Piping to house
Type: 1" poly pipe
PSI: 200 (160 psi min)
Depth of supply line: 36" (36" min)

House Connection
PVC sleeve to undisturbed soil at wall penetration: YES
Length of sleeve (5' minimum from foundation): 6'
Sleeve sealed properly: YES

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: [Signature] Date: 2/18/2022

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

Date Insp. Requested:	Date Insp. Approved:	Inspector:
<u>2/1/22</u>	<u>2/9/22</u>	<u>RR</u>
Inspection Data:		
Pitless adapter watertight & water supply line at least 36" below grade		<u>✓</u>
Two piece cap installed and attached to casing securely		<u>✓</u>
Elec. conduit extends at least 18" below grade/attached to cap properly		<u>✓</u>
Safety rope not outside of well cap/casing		<u>✓</u>
Correct well tag attached properly and casing 8" above finished grade		<u>✓</u>
Water supply line sleeved adequately at house connection		<u>✓</u>
Adequate grout observed below pitless adapter		<u>✓</u>

(Revised form 10/24/2018)

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

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: Foale's Well Pump & Water Treatment, LLC Telephone #: 410 795 5670
Address: 5300 Obrecht Rd
Subsidiary, 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): David C Foale License #: MSD2276

*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: Toll Brothers Telephone #: _____
Subdivision: Willow Creek Lot #: 13 Well Tag #: HO-17-0235
Site Address: 6501 Mare Ct
Dayton, MD 21036

08/04/2021

Submersible Pump Data
Make: Inandus
Model #: BS0010-290
Pump Capacity: 15
Well Yield: 12

Pitless Adapter
Make: Campbell+
Model #: NA
GPM Depth: 36" (36" min)
GPM NSF/WSC approved: Y

Well Cap and Electric Conduit
Two piece watertight cap: Y
Screened, vented well cap: Y
Cap secured to casing: Y
Conduit min 18" B.G.: Y
Conduit secured to well cap: Y

Depth of well encountered at time of pump installation: 500 (feet)
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Must circle one: Torque arrestors / Cable guards / Other acceptable method used
Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing NA

Piping to house
Type: 1" poly pipe
PSL: 200 (160 psi min)
Depth of supply line: 36" (36" min)

House Connection
PVC sleeve to undisturbed soil at wall penetration: Y
Length of sleeve (5' minimum from foundation): 6'
Sleeve sealed properly: Y

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: David C Foale date: 8/3/2021

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

Date Insp. Requested: 08/04/2021 Date Insp. Approved: 08/04/2021 Inspector: _____
Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade Y
Two piece cap installed and attached to casing securely Y
Elec. conduit extends at least 18" below grade/attached to cap properly Y
Safety rope not outside of well cap/casing Y
Correct well tag attached properly and casing 8" above finished grade Y
Water supply line sleeved adequately at house connection Y
Adequate grout observed below pitless adapter Y

HOUSE
(Revised form 10/24/2018)
08/04/2021

3'-4' TRENCH DEPTH @ INSP

House 513



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 – OCTOBER 13, 2022

April 13, 2022

Homeowner
6501 Mare Court
Dayton, MD 21036

**RE: Willowshire, Lot 13
6501 Mare Court
Building Permit: B21000415
Well Permit: HO-17-0235**

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 **3/4/2022**. Final approval of the well line connection to the dwelling was granted on **8/4/2021**. The well construction was completed on **3/2/2018**. Water samples were collected on **3/24/2022**.

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. 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-17-0235. 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 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>



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

In closing, please refer to our "Homeowner Fact Sheet" which illustrates a better understanding for your Onsite Sewage Disposal System. You will also find a link to Maryland Department of the Environments website which describes in further detail operation and maintenance of your septic system.

Approving Authority,

A handwritten signature in black ink, appearing to read 'Kevin M. Wolf', is written over a light blue horizontal line.

Kevin M. Wolf, LEHS, R.S./REHS, Supervisor
Groundwater Management Section
Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits
Community Hygiene Program
File

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554

REPORT OF ANALYSIS

Laboratory ID #: 151123 Account #: 1933
Reference: Willow Creek Lot #13 Client: Fogle's Well Pump & Treatment
Location: 6501 Mare Court Requested By: Dave Fogle
Dayton, MD 21036 Source: Well Water
Date/ Time Collected: 3/24/2022 0740 Site: Pressure Tank
Date/Time Rec'd: 3/24/2022 0924 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 7.9
Collected By: J. Evans 0309JE Well #: HO-17-0235

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	3/25/2022 / 1000 / MEH
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	3/25/2022 / 1000 / MEH
Nitrate	<0.30	mg/L	10	Hach 10206	3/24/2022 / 1430 / CRS
Turbidity	0.68	NTU	<10	SM2130B	3/24/2022 / 1440 / TSD
Sand	ND	mg/L	5	Visual/Gravimetric	3/24/2022 / 1040 / TSD

NOTES:

- 1 mg/L = milligrams per liter (also, parts per million)
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 NTU = Nephelometric Turbidity Units
- 4 pH and Chlorine level tested in lab (pH tested after recommended holding time)
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 6 ND:None Detected
- 7 Sample collected by client, analyzed as received
- 8 Visual well check: Sealed, vented cap: Cap Appeared Satisfactory

Reason for Test : Use & Occupancy

Building Permit # : B21000415

Date Reported: 3/25/2022

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: 120251 Account #: 2440
Reference: Simpson & Denault Company: Hydro-Terra Group
Location: Green Bridge Road Requested By: Jeff Lindaw
Dayton, MD 21036 Source: Well Water
Date/ Time Collected: 3/2/2018 1135 Site: Pumped from Well
Date/Time Rec'd: 3/2/2018 1423 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 7.3
Collected By: W.L.H. Well #: HO-17-0235


PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Nitrate	<1.0	mg/L	10	601	3/2/2018 / 1520 / RER
Chloride	<5.0	mg/L	250*	SM4500-Cl-B.	3/5/2018 / 1015 / CRS

NOTES

- 1 *SMCL = Secondary Maximum Contaminant Level
- 2 mg/L = milligrams per liter (also, parts per million)
- 3 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 4 ND = None Detected
- 5 Sample collected by Alexanders Well Drilling, analyzed as received
- 6 pH and Chlorine level tested in lab

Reason for Test : Client's Information

Date Reported: 3/6/2018

Reviewed By: 

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: 120252 Account #: 2440
Reference: Simpson & Denault Company: Hydro-Terra Group
Location: Green Bridge Road Requested By: Jeff Lindaw
Dayton, MD 21036 Source: Well Water
Date/ Time Collected: 3/2/2018 1135 Site: Pumped from Well
Date/Time Rec'd: 3/2/2018 1423 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 7.3
Collected By: W.L.H. Well #: HO-17-0235

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Sodium	9.1	mg/L	---	200.7	3/14/2018 / 0028 / DAG
Solids, Total Dissolved	83	mg/L	500*	S2540C-11	3/9/2018 / 1143 / BMK

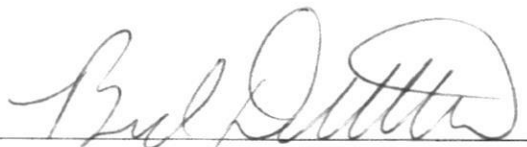
NOTES

- 1 *SMCL = Secondary Maximum Contaminant Level
- 2 mg/L = milligrams per liter (also, parts per million)
- 3 Sodium Detection Limit: 0.25 mg/L; Total Dissolved Solids Detection Limit: 5 mg/L
- 4 Sub-contracted to Reference Lab #128
- 5 ND:None Detected
- 6 Sample collected by Alexanders Well Drilling, analyzed as received
- 7 pH and Chlorine level tested in lab

Reason for Test : Client's Information

Date Reported: 3/16/2018

Reviewed By:





Randall Alexander Well Drilling And Water Pump Sales And Service

126 West Main Street P.O. Box 443
Fairfield, PA 17320
Phone: 717-642-5963 FAX: 717-642-9864
Email: alexanderswell@comcast.net
PAHIC# PA022891
www.AlexandersWellDrilling.com

3/21/18

I Randall L. Alexander License # MWD# 576 would, like to change the following Tag numbers at the Simpson and Denault Subdivision property from test wells to production well. The tag numbers and lot information are listed below as follows as I have enclosed check# 20287 in the amount of

\$ 800.00 for the fee. Lots and Tags numbers are:

Lot# 5 H0-170230

Lot# 6 H0-17-0231

Lot #12 H0-17-0234

Lot#13 H0-17-0235

Lot #15 H0-17-0236.

Simpson and Denault subdivision is on Greenbridge Road Dayton Md.

Thank You

Randall L. Alexander, MWD 576



HOWARD COUNTY HEALTH DEPARTMENT

62935

DATE 3/27/18

WS

Received From

Alexander's Well Drilling

PHONE # 270-642-5963

CASH
 CHECK
 NO. 20287

For

Well permits - Demmitt Subdivision Property

Eight hundred Dollars

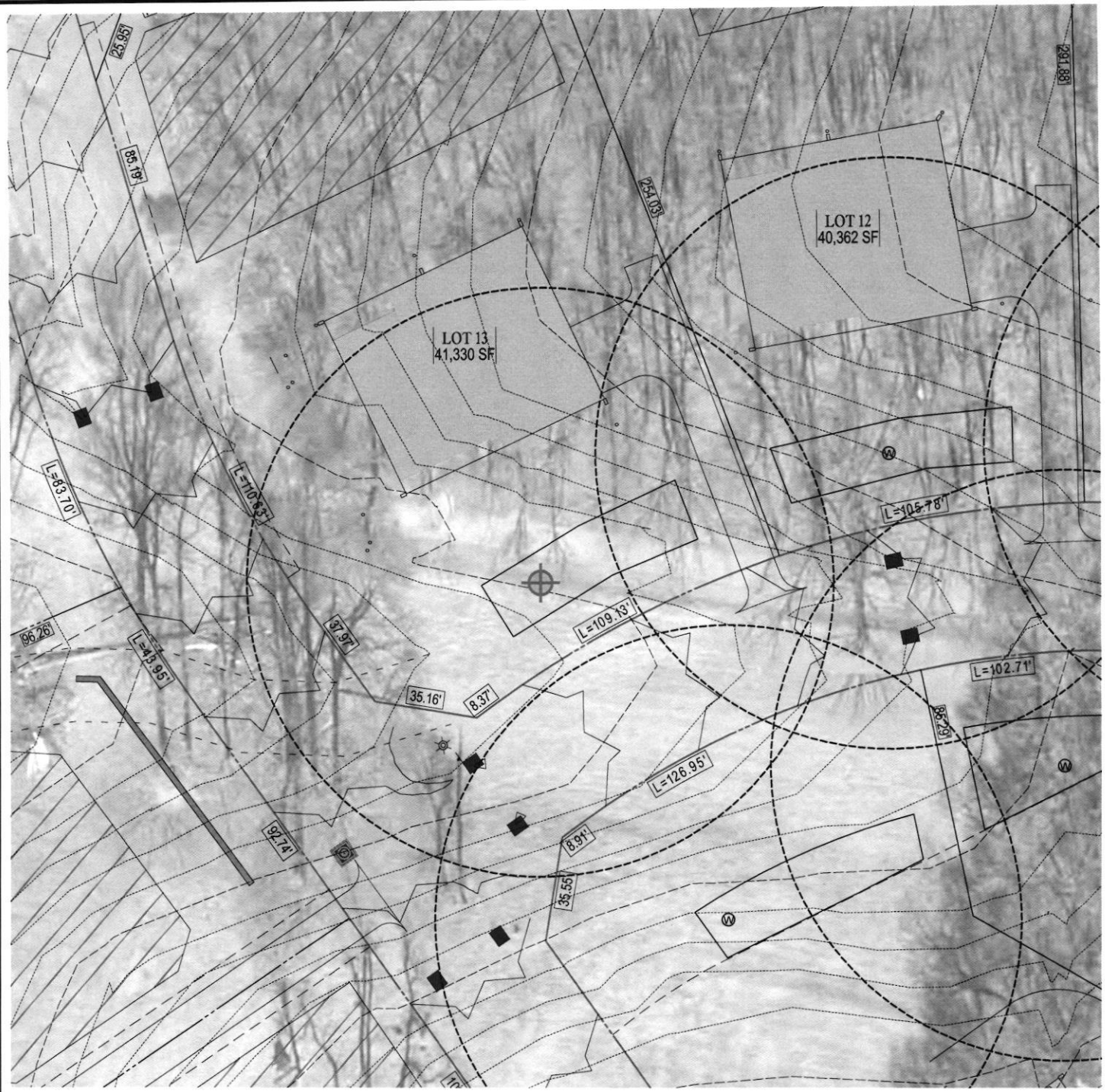
\$ 800.00

Received By

J King

4/3/2018 CONVERSION FROM TEST WELL TO POTABLE WELL

H:\Projects\Elm Street Development\Simpson & Denault Properties_Dayton, MD\CADD\ESD-SDP-Report Set.dwg



LEGEND



Proposed Test Well Site

*Simpson + Denault
Lot 13
Ho 17 0235*

Approved 2/9/18

*Staked by
Shanabergers +
Lane*



MARYLAND
QUADRANGLE LOCATION



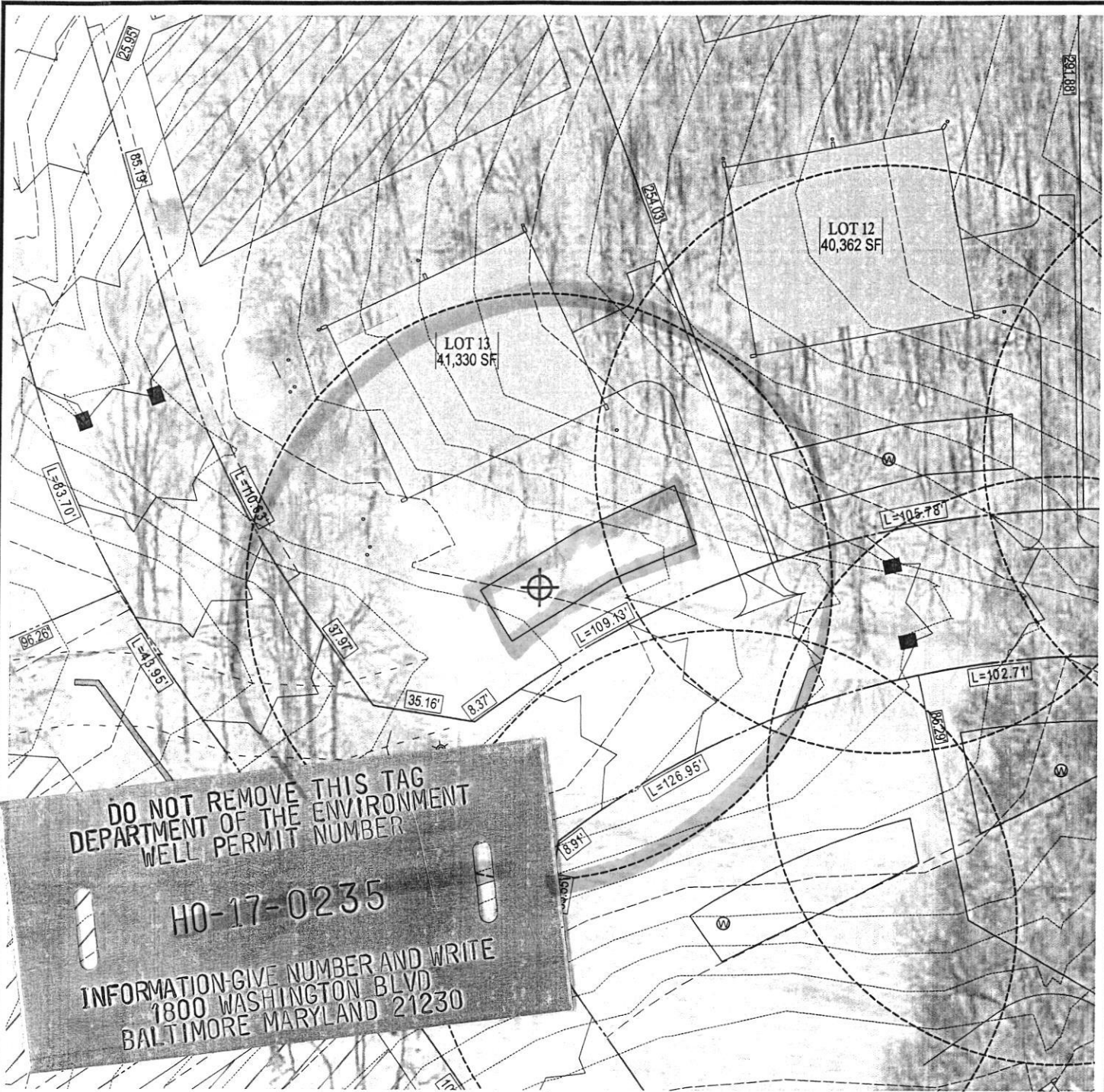
SCALE IN FEET

NOTE:

Aerial Photo Base was obtained from the State of Maryland iMap Imagery website (<http://imap.maryland.gov>), categorized as "Howard2016 SixInchImagery" dated 2016.

Elm Street Development	
project location: Simpson & Denault Properties Dayton, Howard County, Maryland	
project: Water Supply Development Lot #13 Proposed Test Well Location Map	
file no. ESD-SDP-Report Set.dwg	figure: h
drawn: M. Swam date: 01/25/18	
checked: J. Lindaw date: 01/25/18	
approved: M. Hausler date: 01/25/18	
www.hydro-terra.com	

H:\Projects\Elm Street Development\Simpson & Denault Properties_Dayton, MD\CADD\ESD-SDP-Report_Set.dwg

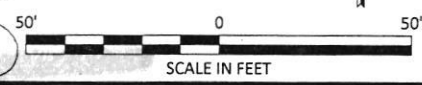
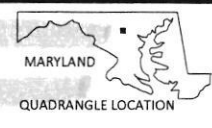


DO NOT REMOVE THIS TAG
 DEPARTMENT OF THE ENVIRONMENT
 WELL PERMIT NUMBER
HO-17-0235
 INFORMATION-GIVE NUMBER AND WRITE
 1800 WASHINGTON BLVD
 BALTIMORE MARYLAND 21230

Simpson + Denault
LEGEND *HO-17-0235 Lot 13*

Proposed Test Well Site *Approved 2/9/18*

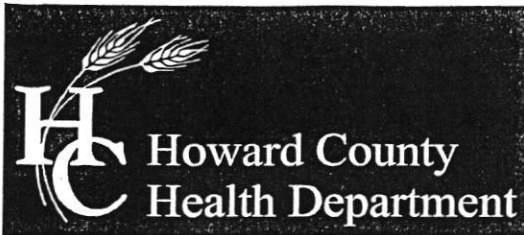
Staked by
Shanabergers +
Lane



NOTE:

Aerial Photo Base was obtained from the State of Maryland iMap Imagery website (<http://imap.maryland.gov>), categorized as "Howard2016 SixInchImagery" dated 2016.

Hydro-Terra GROUP		Elm Street Development	
www.hydro-terra.com		project location: Simpson & Denault Properties Dayton, Howard County, Maryland	
project:		Water Supply Development Lot #13 Proposed Test Well Location Map	
file no:	ESD-SDP-Report Set.dwg	figure:	h
drawn:	<i>M. Swam</i> 01/25/18	date:	
checked:	<i>J. Lindaw</i> 01/25/18	date:	
approved:	<i>M. Hauffer</i> 01/25/18	date:	



Bureau of Environmental Health

8930 Stanford Blvd, 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
Twitter: HowardCoHealthDep

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

MEMORANDUM

TO: Randall Alexander MWD 576

FROM: Joseph Cabahug
Environmental Health Specialist
Well & Septic Program

DATE: February 9th, 2018

RE: Simpson & Denault Subdivision – Test Well Permit
Special Condition for Conversion to Potable Well

JE 2/9/18

The following comments apply to the above referenced Well Permit Application. Please read through and complete as needed.

The Maryland Department of the Environment (MDE) has granted variances to allow wells on the specified lots to be installed pursuant to the stated conditions. The wells to be installed on lots 3, 4, 5, 6, 7, 11, 12, 13, 15, and Parcel C respectively, must be installed according to these criteria.

- A. Respective well casing shall be steel
- B. Well casings extending to at least 50' in depth or 10' into competent rock, whichever is deeper

The Howard County Health Department is requiring the following samples during yield test:

- A. Sodium, Chloride, and Total Dissolved Solids

+ Nitrates

If you have any questions regarding the above mentioned information, please feel free to contact me at 410-313-2643 or email jcabahug@howardcountymd.gov.

JCC

Cc: Jeff Lindaw
file

GROUTING 2/16/18

TREMIE LENGTH: 58' TREMIE DIAMETER: PRODUCT USED: B C BAG WEIGHT:

MAKE UP WATER pH: THERMALLY ENHANCED: Y N TYPE/WEIGHT OF ADDITIVE:

GALLONS OF WATER USED PER BAG: MUD WEIGHT AT START:

MUD WEIGHT AT END: NUMBER OF BAGS USED:

NOTES: Benseal Baroid + EZ Mud 5709B1
lot 10516172
~~20516172~~
12 bags

WELL DEVELOPMENT/YIELD/REWORKING

METHODS USED: S SB J OP C DURATION: FINAL STATIC & YIELD:

HYDROFRACTURED: Y N SINGLE OR ZONE PACKER: S Z DEPTH OF PACKER SETS:

TOTAL GALLONS OF WATER USED: ESTIMATED YIELD OF FLOW BACK:

DEVELOPMENT NOTES:

UPPER TERMINAL/PUMP INSTALLATION

GROUT PRESENT IN ANNULAR SPACE: Y N PUMP IDENTIFICATION:

DROP PIPE DESCRIPTION: DEPTH/LOCATION OF CHECK VALVES:

PITLESS, CONDUIT PIPE & WATER SERVICE LINE DEPTH: SAFETY ROPE: Y N

ELECTRICAL CABLE DESCRIPTION: PROPER CAP & STICK UP: Y N

STATIC WATER LEVEL: PUMP SET DEPTH: TAG ON WELL: Y N

GENERAL NOTES

STATE OF MARYLAND WELL INSPECTION SHEET

DATE: / /

COUNTY: Howard (XII)

WELL TAG #:

ONSITE START TIME:

END OF INSPECTION TIME:

LATITUDE/LONGITUDE:

COPY OF PERMIT ONSITE: Y N

WELL DRILLING PERSONNEL: 2/15/18
Randall

Dustin
Pruett

GOVERNMENT PERSONNEL: 2/15/18
Cabraling

OTHERS: Brett Hydroterra

CONSTRUCTION

LOCATION CONSISTENT WITH PLAN: Y N

CHLORINE PRESENT IN MAKE UP WATER: Y N

BIT/STABILIZER SIZE:

PENETRATION RATE: 160-180' ~ 30 sec / 1 ft

NOTES:

2/15/18 Ⓢ 10:30

~ 140' Deep on arrival

60' casing (58' Brett)

21' bedrock

2' above 58' below

2/16/18

~ 400 → 560'

@ 180 Micaceous Schist

~ 400' EOD

CASING/SCREEN 2/15/18 Ⓢ

LENGTH/SIZE/ASTM# OF CASING SET: See spec

LENGTH/SIZE/ASTM# OF LINER: N/A

SCREEN LENGTH/SLOT SIZE/ASTM#: N/A

DEPTH SET: 58'

NOTES: 2/15/2018 Ⓢ

SPEC: Nexteel API Spec 5L-0554 04-17

6.625" x 0.188" x 20' 12 94 API 516 x 24 PSL1/

ASTM A53B/ASME SA33B HFW Heat

SB 89083 7 D1641 KOREA TESTED 1790 PSI



Randall Alexander Well Drilling And Water Pump Sales And Service

126 West Main Street P.O. Box 443

Fairfield, PA 17320

Phone: 717-642-5963 FAX: 717-642-9864

PAHIC# PA022891

www.AlexandersWellDrilling.com

February 1, 2018

To whom it may concern,

If Howard County Maryland Health Department will allow, I Randall L. Alexander grant permission for Hydro-Terra Group to pick up permits from the county when the permits are approved.

A handwritten signature in black ink, appearing to read "Randall Alexander".

Randall Alexander

Owner - Alexander's Well Drilling

RECEIVED
FEB 05 2018
HOWARD COUNTY HEALTH DEPT
BUREAU OF ENVIRONMENTAL AFFAIRS