

C1 34104 SEQUENCE NO. (MDE USE ONLY)
 1 2 3 6
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

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.
 COUNTY NUMBER

ST/CO USE ONLY
 DATE RECEIVED
 MM DD YY
 8 13

DATE WELL COMPLETED
 MM DD YY
 01 29 15

Depth of Well
 22 300 26
 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL"
 OK
 3/26/15 SC
 HO-14-0109
 28 29 30 31 32 33 34 35 36 37

OWNER Land Design + Development
 WELL SITE ADDRESS Triadelphia M-11 RD TOWN Highland
 SUBDIVISION Jacks Landing SECTION _____ LOT 1

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	
SOIL	0	6	
Brown shale	6	30	
TAN ROCK	30	55	
MED GRAY ROCK	55	300	✓
		235	✓

Well #1 - 300' Dry
 Well #2 - 400' Dry
 (Dry holes backfilled)
 $\frac{20 \text{ bags grout}}{5.8} = 3.4 \text{ bags/10 ft. } \checkmark$
 Storage = $290' \cdot 58' = 232 \cdot 1.5 = 348 \text{ gal}$
 $2.8 \text{ gal/min} \cdot 120 = 336 \text{ yield } \checkmark$

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) YES NO
 TYPE OF GROUTING MATERIAL (Circle one)
 CEMENT BENTONITE CLAY
 NO. OF BAGS 20 NO. OF POUNDS 1800
 GALLONS OF WATER 120
 DEPTH OF GROUT SEAL (to nearest foot)
 from 0 ft. to 58 ft.
 (enter 0 if from surface)

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

MAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch)! 6 Total depth of main casing (nearest foot) 58
 60 61 63 64 66 70

OTHER CASING (if used)
 diameter inch depth (feet) from to
 A C H I N G

SCREEN RECORD
 screen type or open hole (insert appropriate code below)
 PL PLASTIC
 ST STEEL
 BR BRASS
 HO OPEN HOLE
 OT OTHER

C 2 DEPTH (nearest ft.)
 1 HO 58 300
 E 8 9 11 15 17 21
 A C H 23 24 26 30 32 36
 S 38 39 41 45 47 51
 R E N
 SLOT SIZE 1 _____ 2 _____ 3 _____
 DIAMETER OF SCREEN _____ (NEAREST INCH)
 56 60
 from to

C 3

PUMPING TEST
 HOURS PUMPED (nearest hour) 6
 PUMPING RATE (gal. per min.) 2.8
 METHOD USED TO MEASURE PUMPING RATE Submersible
 WATER LEVEL (distance from land surface)
 BEFORE PUMPING 58 ft.
 WHEN PUMPING 146 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

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
 - below } 1 (nearest foot)
 49 50 51

NUMBER OF UNSUCCESSFUL WELLS: 2
 WELL HYDROFRACTURED YES NO

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.

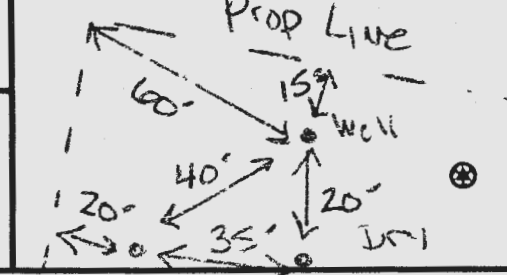
DRILLERS LIC. NO. MWD 355
 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)
 LIC. NO. MSD 066

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 LOG OTHER DATA
 CASING INDICATOR

LATITUDE 39.21724
 LONGITUDE 76.07552
 (DEFAULT COORD. WGS 84)



B 1 28744

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

554595 please type

Ho-14-0109 fill in this form completely

Date Received (APA) 08/22/14

OWNER INFORMATION

Land Design + Development 5300 Dorsey Hall Drive, Suite 102 21106 # City MD 21043

LOCATION OF WELL

Howard COUNTY JACK'S LANDING SUBDIVISION Highland NEAREST TOWN

DRILLER INFORMATION

Michael Barlow MW D 355 Barlow Well Drilling 522 Underwood Lane 21014 8/18/14

SOURCES OF DRILLING WATER

1 Well

Triadelphia Mill Rd 34 500 37 DISTANCE FROM ROAD ENTER FT QB-MI 39 TAX MAP 34 PARCEL 414

WELL INFORMATION APPROX. PUMPING RATE 5 (GAL. PER MIN.) AVERAGE DAILY QUANTITY NEEDED 750 (GAL. PER DAY)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard COUNTY NAME (13) A517922 STATE SIGNATURE DATE ISSUED 10/7/14 CO SIGNATURE EXP. DATE 10/7/15

- USE FOR WATER (CIRCLE APPROPRIATE BOX) 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

APPROXIMATE DEPTH OF WELL 250 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary) CABLE REVerse-ROTARY Drive-POINT

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 DEEPEN AN EXISTING WELL

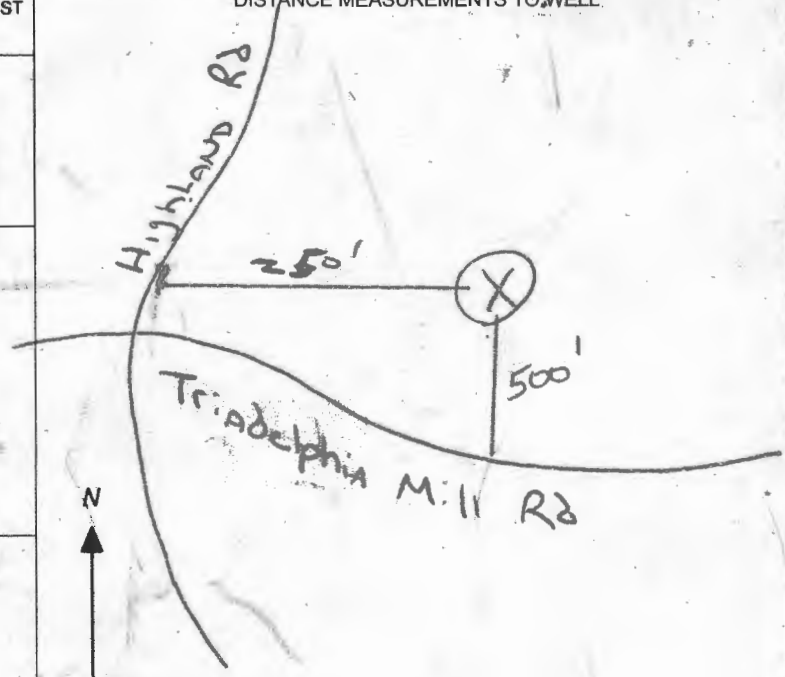
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41

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

APPROX. PERMIT NUMBER 7 G PERMIT No. Ho-14-0109

SPECIAL CONDITIONS Sodium, TDS + Chlorides to be collected @ Yield

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.



Yield testing required @ yield

**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.

Company Name: _____ Telephone #: _____
Address: _____

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer

License # and name of individual responsible for the field installation:

Name (Print): _____ License# _____

***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: _____ Telephone #: _____
Subdivision: _____ Lot #: _____ Well Tag #: HO - 11 - 0112
Site Address: _____

Submersible Pump Data

Make: _____
Model #: _____
Pump Capacity _____ GPM
Well Yield: _____ GPM

Pitless Adapter

Make: _____
Model#: _____
Depth: _____ (36" min)
NSF/WSC approved: _____

Well Cap and Electric Conduit

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

Depth of well encountered at time of pump installation: _____ (feet) Conduit secured to well cap: _____

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Torque arrestors, 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

Type: _____
PSI: _____ (160 psi min)
Depth of supply line: _____ (36" min)

House Connection

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

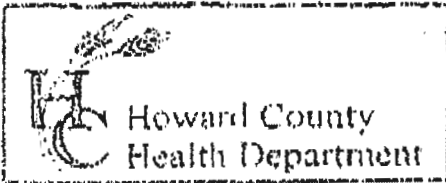
The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation _____ date _____

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

Date Insp. Requested: 5/24/2019 Date Insp. Approved: _____ Inspector: _____
Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade 41" 5/24/2019
Two piece cap installed and attached to casing securely _____
Elec. conduit extends at least 18" below grade/attached to cap properly 34" 5/24/2019
Safety rope not outside of well cap/casing _____
Correct well tag attached properly and casing 8" above finished grade 22" 5/24/2019
Water supply line sleeved adequately at house connection _____
Adequate grout observed below pitless adapter _____

5/24/2019
SLEEVED FROM HOUSE PAST
SDA ON 13280 TRIADELPHIA MILL.
REINSPE. CAP + WALL (HOUSE).



3525 H Ellicott Mills Drive, Ellicott City, MD 21043
 (410) 313-2640 Fax (410) 313-2648
 TDD (410) 313-2323 Toll Free 1-866-313-6300
 website: www.hchealth.org

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

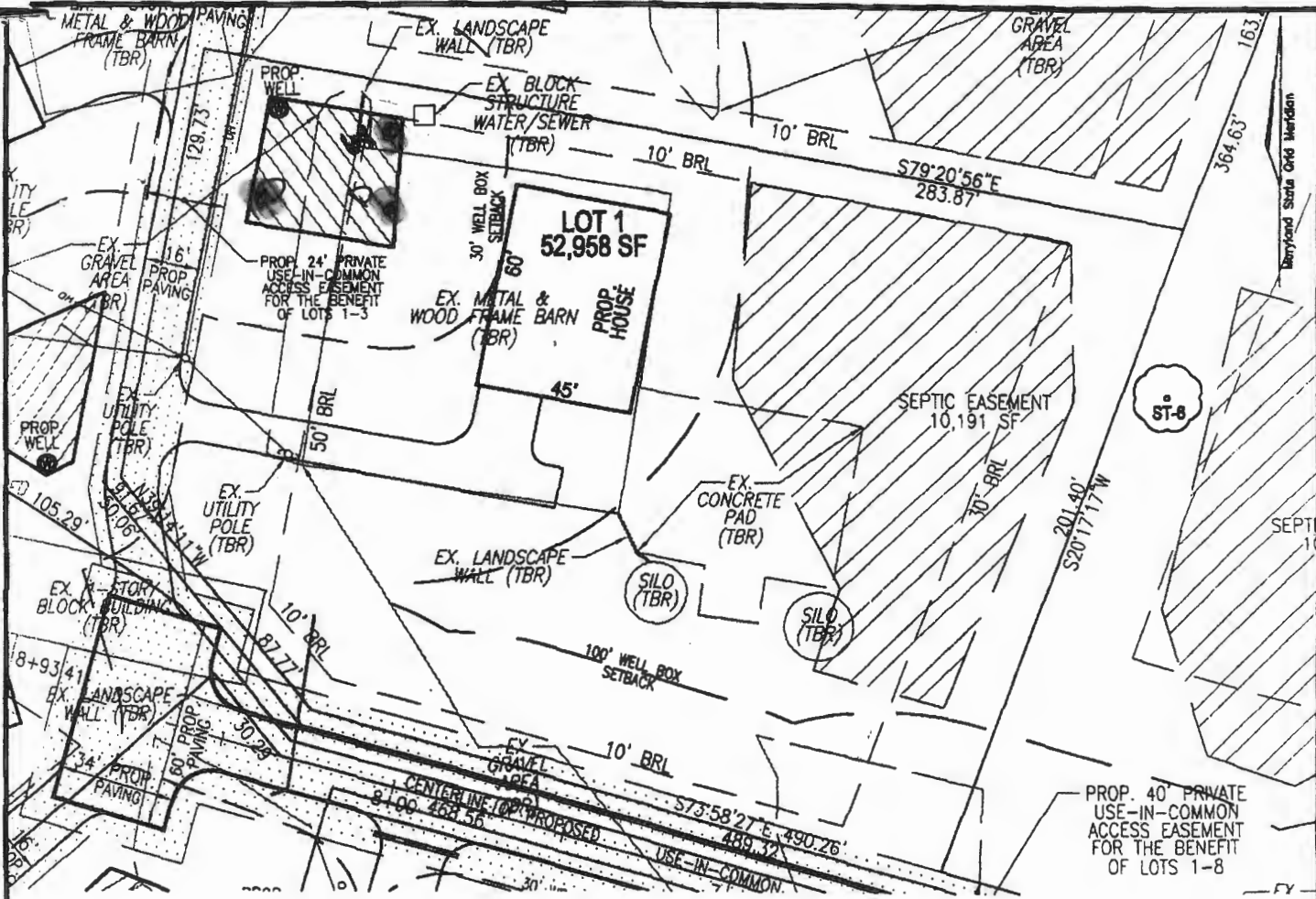
TO ALL INTERESTED PARTIES

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

- The well site has been staked by JACKS Landing - NEW AREAS FOR LOTS 1 + 3 (professional land surveyor or company employing professional land surveyors) on 8-27-15 (date) and does not require a site inspection.
- The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

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

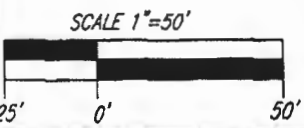
Revised 6/10/03



LEGEND:

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY LINE
- PROPOSED RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING EDGE OF PAVING
- EXISTING TREELINE
- EXISTING TREES
- EXISTING WOOD FENCE
- EXISTING METAL FENCE
- PROPOSED TREELINE
- PROPOSED USE-IN-COMMON ACCESS EASEMENT PLAT
- PROPOSED SEPTIC EASEMENT
- PROPOSED WELL BOX
- EXISTING UTILITY POLE
- PROPOSED STORMDRAIN
- PROPOSED WELL LOCATION

*10/7/14
Well Box Approved
staked by
Vogel Eng.
-KAW*



Abandoned Hike Locations

ROBERT H. VOGEL ENGINEERING, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 8407 MAIN STREET TEL 410.461.7666
 ELLICOTT CITY, MD 21043 FAX 410.461.8961

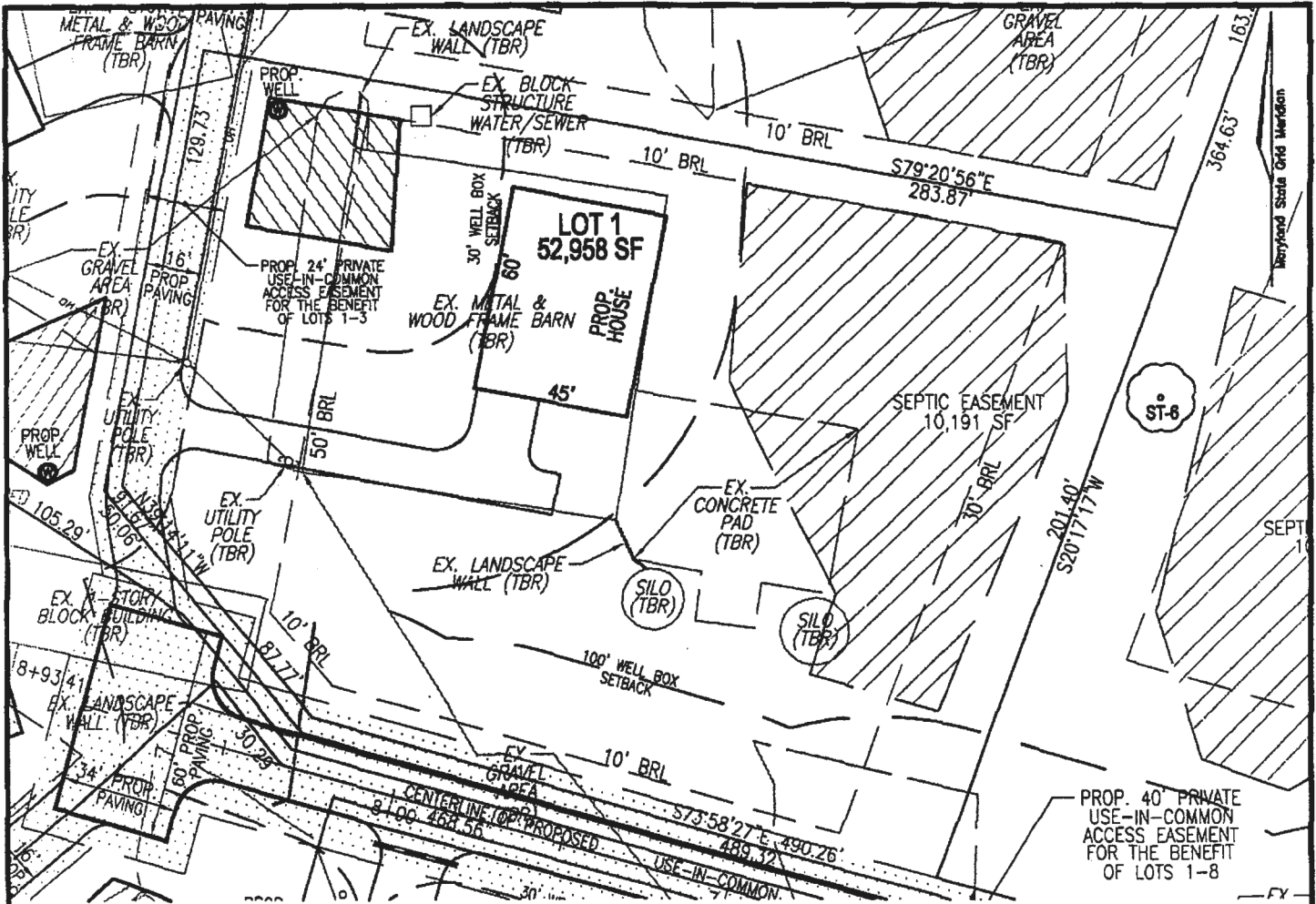
SCALE: 1"=50'
 DRAWN BY: JMR
 CHECKED BY: RHV
 DATE: MARCH 2014
 W. O. #: 13-31
 SHEET # 1 OF 1

**WELL EXHIBIT - LOT 1
 JACK'S LANDING**
 LOTS 1-8, BUILDABLE PRESERVATION PARCEL A,
 AND NON-BUILDABLE PRESERVATION PARCEL B
 A SUBDIVISION OF TAX MAP 34
 PARCEL 414 (L. 3172 / F. 336)

TAX MAP 34 BLOCK 03
 5TH ELECTION DISTRICT

PARCEL 414
 ZONED RR-DEO
 HOWARD COUNTY, MARYLAND

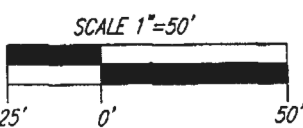
K:\Projects\13-31\ENGR\Drawings\DWELL EXHIBIT LOT 1.dwg, 8/12/2014 9:17:44 AM



LEGEND:

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY LINE
- PROPOSED RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING EDGE OF PAVING
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- PROPOSED WELL BOX
- EXISTING UTILITY POLE
- PROPOSED STORMDRAIN
- PROPOSED WELL LOCATION

10/7/14
Well Box Appoed.
started by Vogel Engr.
-KRW
** Need section, chlorrelg*
TDS



ROBERT H. VOGEL ENGINEERING, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 8407 MAIN STREET ELUGGETT CITY, MD 21043 TEL: 410.461.7666 FAX: 410.461.8961

K:\Projects\13-31\ENGR\dwg\SDPWELL EXHIBIT LOT 1.dwg 8/12/2014 9:12:44 AM

SCALE: 1"=50'
 DRAWN BY: JMR
 CHECKED BY: RHV
 DATE: MARCH 2014
 W. O. #: 13-31
 SHEET #: 1 OF 1

WELL EXHIBIT - LOT 1
JACK'S LANDING
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 A SUBDIVISION OF TAX MAP 34
 PARCEL 414 (L. 3172 / F. 336)

TAX MAP 34 BLOCK 03
 5TH ELECTION DISTRICT

PARCEL 414
 ZONED RR-DEO
 HOWARD COUNTY, MARYLAND

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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – DECEMBER 28, 2019

June 28, 2019

Homeowner
5524 Jacks Landing Way
Clarksville, MD 21029

RE: Jacks Landing, Lot 1
5524 Jacks Landing Way
Building Permit: B18004114
Well Permit: HO-14-0109

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 **6/21/2019**. Final approval of the well line connection to the dwelling was granted on **5/24/2019**. The well construction was completed on **10/26/2015**. Water samples were collected on **6/11/2019**.

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-14-0109. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

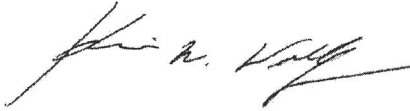
This Interim Certificate of Potability will expire **six months** from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will 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>

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 Environment's website which describes in further detail operation and maintenance of your septic system.

Approving Authority,



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

HOME LAND

L A B S

"Healthy Homes Start Here"

State Certified Water Quality Laboratory #353

Certificate of Analysis

Report Date: 6/13/2019

Client: Well Water Solutions, Inc.

Property Address: 5524 Jacks Landing Way
Clarksville MD 21029 Lot 1

Report No: 171978

Date & Time Sampled: 06/11/2019 1:30 pm

Date & Time Received: 06/12/2019 11:20 am

Sampled By: JWalker9006JW (Exp. 9/5/2021)

Preservation: Ice

Sample Point(s): Kitchen sink, Bacteria-first floor bathroom sink

Water Conditioning Appears to be: None

Chlorine Residual: 0.0

Field pH: 5.8

Well Type: Drilled

Well Height: 18"

Cap Type: Not noted

Casing: Not noted

Conduit: PVC

Clarity: Clear

Sand: None Observed

Well Tag Number: HO-14-0109

Primary Contaminants

Parameter	Method	Result	Pass/Fail	Units	MCL	RL	Analyst	Date of Analysis
Bacteria-Total Coliform	Colitag Test	Absent	Pass	Per/100ml	Present	1	MAK-353	06/13/2019
Bacteria-E.coli	Colitag Test	Absent	Pass	Per/100ml	Present	1	MAK-353	06/13/2019
Nitrate + Nitrite as N	EPA 353.2	7.0	Pass	mg/l	10	0.5	MAK-353	06/12/2019

Secondary Contaminants

Parameter	Method	Result	Acceptable /High	Units	SMCL	RL	Analyst	Date of Analysis
Turbidity	EPA 180.1	6.1	Acceptable	NTU	10	0.5	KMB-353	06/12/2019

Approved By

Kevin Barnaba

Kevin Barnaba, Lab Director



HOME ENVIRONMENTAL HEALTH LABS

171978 Date Due: 6/13/20
 Client: Well Water Solutions, Inc.
 Project: _____

443-505-8375
 9106 Philadelphia Road Suite 106
 Rosedale MD 21237
 www.homelandhealthyhomes.com
 lab@homelandhealthyhomes.com

** RWH **
 Please return ASAP TX

Chain Of Custody Form

Client Name Well Water Solutions, Inc.

Site Address:

Lot 1

Address 5163 Darting Bird Lane, Columbia, MD 21044

5524 Jacks Landing Way

Phone 410-935-7185 &/or 301-674-3137

Clarksville, MD 21029

Email jbieber@wellwatersolutions.net & jemoseman@wellwatersolutions.net

Field Collection Information

Collector's Name:	Janet Walker <i>JW</i>
Sampler's ID #:	9006JW Exp: 9/5/21
Collected Date and	6/11/2019 @ 1:30
Well Tag Number:	HO-14-0109

Field pH:	5.8
Field Chlorine:	Present / Absent
Sand:	Yes / No
Clear At Time of Sample?	Yes / No
Was Well Chlorinated?	Yes / No / Unknown

Well Casing and Cap Condition *Bldg Permit #

Height Above Grade:	Cap Type:	Casing:	Conduit:
18"			PVC

Requested Testing: (Please Circle All That Apply)

FHA/VA (Potability +Nitrites, Lead and Iron)	Potability (Bacteria, Nitrates, pH, Turbidity) ✓
--	---

Arsenic	Bacteria	Cadmium	Chlorides	Gross Alpha	Iron
Lead	MTBE	Nitrates	Nitrites	Pesticides	Radium 226/228
Total Hardness	VOC's	Other:	Other:	Other:	Other:

Source: <input checked="" type="checkbox"/> Bacteria Sample Collected RAW No Treatment from first floor Bathroom Sink. All Other Samples collected RAW No Treatment from the Kitchen Sink.	Water Conditioning: <input checked="" type="checkbox"/> None / All Samples collected RAW from a tap <small>NOTE: The Property does not have Water Treatment. All Samples collected from a tap with No Water Treatment "RAW".</small>
---	--

Release Signatures

* Please return COC with the Lab Results

Released By: *Janet Walker* Date/Time: 6/11/19 03:00
 Released By: *Ethan Botchko* Date/Time: 6/12/19 11:20 am
 Released By: _____ Date/Time: _____
 Received in lab by: *Alyssa Davis* Date/Time: 6/12/19 11:20 AM

ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

FINAL REPORT OF ANALYSIS

Michael Barlow Well Drilling
522 Underwood Lane
Bel Air, MD 21014

Report Date: 02/09/2015
Report Number: 150209130449

LAB#- E038253-01 SAMPLE ID- HO 14-0109 WELL # HO 14-0109
LOCATION- Well Head SAMPLER- S Shelley #5510 SS
DATE SAMPLED- 01/29/2015 TIME SAMPLED- 12:20 Residual Chlorine-
DATE RECEIVED- 01/29/2015 TIME RECEIVED- 13:24
DELIVERED BY- Stephen Shelley RECEIVED BY- Ginny Shelley

COMMENTS-

COMMENTS-

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DATA FLAG
Metals by Enviro-Chem					
* Sodium	EPA 200.7	01/30/15 10:40	MAP	258 mg/L	<u>ML's</u> 20
Wet Chemistry by Enviro-Chem					
% Chloride	EPA 300.0	01/30/15 12:18	EJF	740 mg/L	250
% Dissolved Solids	SM 2540C	01/29/15 16:20	VPS	1700 mg/L	500

- what was shown
Yield was the first
collected?

**MICHAEL BARLOW WELL DRILLING
522 UNDERWOOD LANE
BEL AIR, MD 21014
410-838-6910**

FAX TRANSMITTAL FORM

DATE: 8/28/15

TO: Jeffrey Williams

FAX NUMBER: 410-313-2648

RE: Jacks Landing

Number of Pages including cover: 2

The new areas on lots 1 & 3 at Jacks Landing have been staked.

Mike Isom



Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

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: Michael Barlow, MWD 355
Barlow Well Drilling

FROM: Ryan Rappaport, LEHS Well & Septic Program 

RE: VOC Testing required of all wells at Jack's Landing Lots 1-8 & Parcel A

DATE: October 20, 2014

As per the approved and signed Percolation Certification Plan dated February 6, 2014, general note #13: VOC Testing will be required on all wells prior to health signature of final plat. See special condition on each well permit for specific requirements.

Analytical Results

Project: Jacks Landing

Project Number: HO 14-0109
Project Manager: Mike Isom

Reported:
02/05/15 11:49

HO 14-0109

5013020-01 (Water)
Sample Date: 01/29/15

Analyte	Result	Units	Reporting		Prepared	Analyzed	Analyst	Notes
			Limit	Dilution				
VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS)								
tert-Amyl alcohol (TAA)	ND	ug/L	10.0	1	02/02/15	02/02/15 15:05	WB	
tert-Amyl methyl ether (TAME)	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Benzene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Bromobenzene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Bromochloromethane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Bromodichloromethane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Bromoform	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Bromomethane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
tert-Butanol (TBA)	ND	ug/L	10.0	1	02/02/15	02/02/15 15:05	WB	
n-Butylbenzene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
sec-Butylbenzene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
tert-Butylbenzene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Carbon tetrachloride	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Chlorobenzene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Chloroethane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Chloroform	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Chloromethane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
2-Chlorotoluene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
4-Chlorotoluene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Dibromochloromethane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Dibromomethane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,2-Dichlorobenzene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,3-Dichlorobenzene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,4-Dichlorobenzene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Dichlorodifluoromethane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,1-Dichloroethane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,2-Dichloroethane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,1-Dichloroethene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,2-Dichloropropane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,3-Dichloropropane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
2,2-Dichloropropane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Will Brewington, Staff Chemist

Analytical Results

Project: Jacks Landing

Project Number: HO 14-0109
Project Manager: Mike Isom

Reported:

02/05/15 11:49

HO 14-0109

5013020-01 (Water)

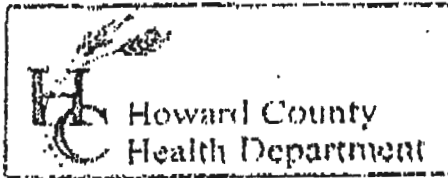
Sample Date: 01/29/15

Analyte	Result	Units	Reporting		Prepared	Analyzed	Analyst	Notes
			Limit	Dilution				
VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (continued)								
1,1-Dichloropropene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Diisopropyl ether (DIPE)	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Ethyl tert-butyl ether (ETBE)	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Ethylbenzene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Hexachlorobutadiene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
4-Isopropyltoluene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Methyl tert-butyl ether (MTBE)	4.99	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Methylene chloride	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Naphthalene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
n-Propylbenzene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Styrene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Tetrachloroethene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Toluene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,1,1-Trichloroethane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,1,2-Trichloroethane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Trichloroethene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Trichlorofluoromethane (Freon 11)	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,2,3-Trichloropropane	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Vinyl chloride	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
o-Xylene	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
m- & p-Xylenes	ND	ug/L	0.50	1	02/02/15	02/02/15 15:05	WB	
Surrogate: 4-Bromofluorobenzene		80-120	89 %		02/02/15	02/02/15 15:05		
Surrogate: 1,2-Dichlorobenzene-d4		80-120	112 %		02/02/15	02/02/15 15:05		

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Will Brewington, Staff Chemist



3525 H Ellicott Mills Drive, Ellicott City, MD 21043
 (410) 313-2640 Fax (410) 313-2648
 TDD (410) 313-2323 Toll Free 1-866-313-6300
 website: www.hchealth.org

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

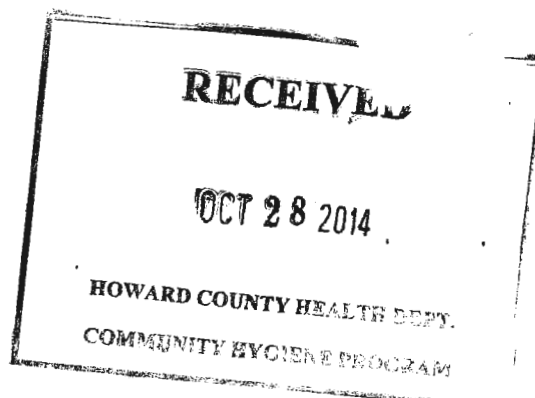
TO ALL INTERESTED PARTIES

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

- JACKS LANDING Lots 1-8 + Parcel A
- The well site has been staked by Robert Vogel Engineering,
 (professional land surveyor or company employing professional land surveyors)
 on 10/29/2014 (date) and does not require a site inspection.
 - The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

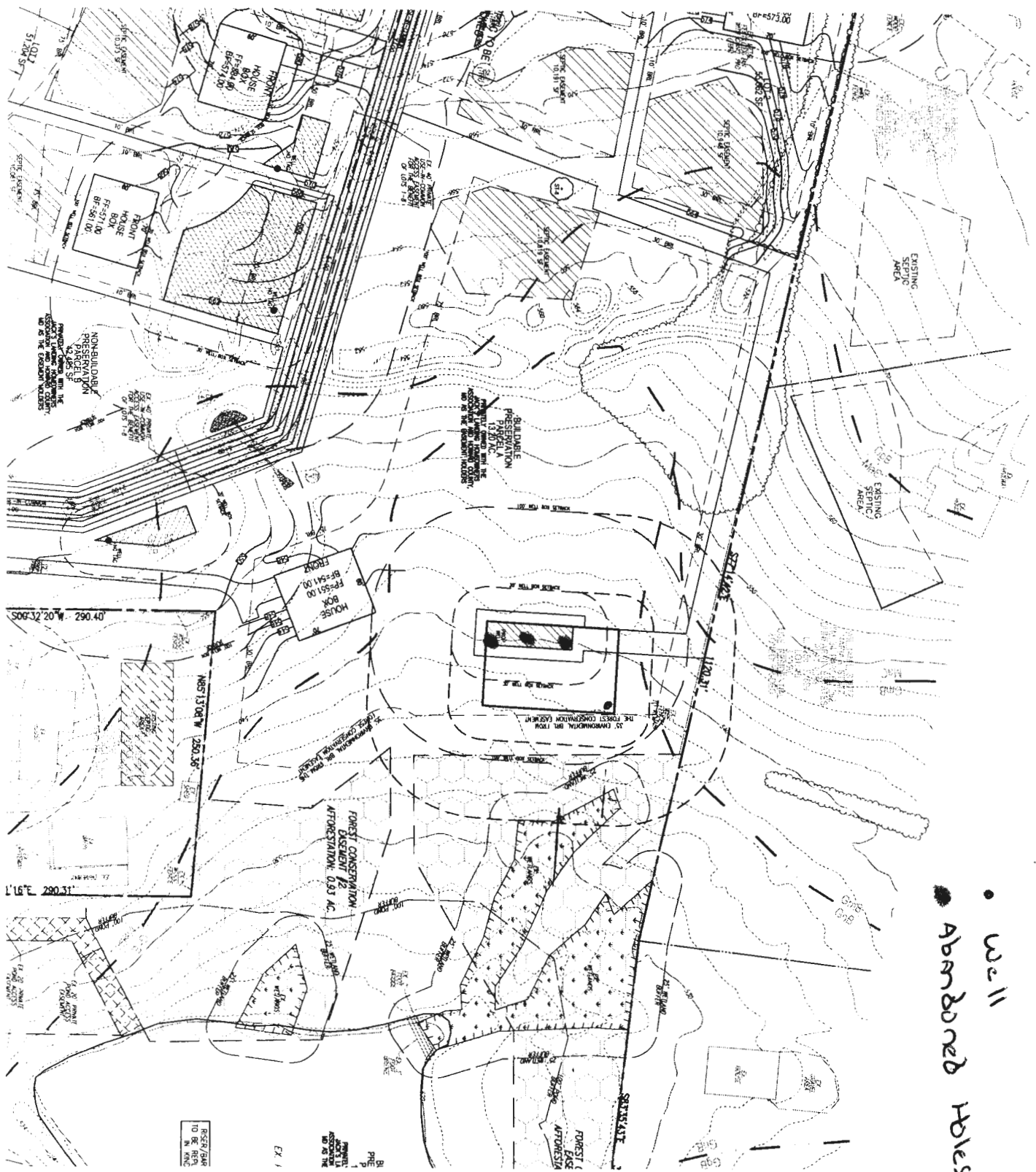
This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

Revised 6/10/03



JACKS LANDING LOT 1
 New well Area

- Well
- Abandoned Holes



RESERVE
 TO BE OPEN
 IN KIND

EX 1

PHE
 P
 PRESERVE
 AREAS TO BE OPEN
 IN KIND

ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

FINAL REPORT OF ANALYSIS

Michael Barlow Well Drilling
522 Underwood Lane
Bel Air, MD 21014

Report Date: 10/01/2015
Report Number: 151001232723

LAB#- E041599-01 SAMPLE ID- Jacks Landing Lot 1 2nd Well WELL #
LOCATION- SAMPLER- M Dixon
DATE SAMPLED- 09/21/2015 TIME SAMPLED- 13:00 Residual Chlorine-
DATE RECEIVED- 09/22/2015 TIME RECEIVED- 13:00
DELIVERED BY- M Isom RECEIVED BY- Ginny Shelley
COMMENTS-

COMMENTS-

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DATA FLAG
Total Metals EPA 200.7 by Enviro-Chem					
*! Sodium	EPA 200.7	09/24/15 12:30	MAP	7.03	mg/L
Wet Chemistry by Enviro-Chem					
\$ Chloride	EPA 300.0	09/22/15 22:20	SES	2.1	mg/L
\$ Dissolved Solids	SM 2540C	09/28/15 09:00	SES	98.0	mg/L

Stephen Shelley
Laboratory Director

Certifications

- State of Maryland Certification #192
* - NELAP Certification 68-04873
! - VELAP Certification 460255
\$ - Not a certified Analyte

Analytical Results

Project: Jacks Landing

Project Number: E041599
Project Manager: Stephen Shelley

Reported:
09/28/15 15:58

E041599-01 (Jacks Landing Lot 1 2nd Well)

5092316-01 (Water)
Sample Date: 09/21/15

Analyte	Result	Units	Reporting			Prepared	Analyzed	Analyst	Notes
			Limit	Dilution					
VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS)									
tert-Amyl alcohol (TAA)	ND	ug/L	10.0	1		09/26/15	09/26/15 23:32	WB	
tert-Amyl methyl ether (TAME)	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
Benzene	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
Bromobenzene	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
Bromochloromethane	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
Bromodichloromethane	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
Bromoform	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
Bromomethane	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
tert-Butanol (TBA)	ND	ug/L	10.0	1		09/26/15	09/26/15 23:32	WB	
n-Butylbenzene	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
sec-Butylbenzene	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
tert-Butylbenzene	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
Carbon tetrachloride	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
Chlorobenzene	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
Chloroethane	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
Chloroform	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
Chloromethane	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
2-Chlorotoluene	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
4-Chlorotoluene	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
Dibromochloromethane	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
Dibromomethane	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
Dichlorodifluoromethane	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
1,1-Dichloroethane	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
1,2-Dichloroethane	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
1,1-Dichloroethene	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
1,2-Dichloropropane	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
1,3-Dichloropropane	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	
2,2-Dichloropropane	ND	ug/L	0.50	1		09/26/15	09/26/15 23:32	WB	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Will Brewington, Staff Chemist

Analytical Results

Project: Jacks Landing

Project Number: E041599

Project Manager: Stephen Shelley

Reported:

09/28/15 15:58

E041599-01 (Jacks Landing Lot 1 2nd Well)

5092316-01 (Water)

Sample Date: 09/21/15

Analyte	Result	Units	Reporting		Prepared	Analyzed	Analyst	Notes
			Limit	Dilution				
VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (continued)								
1,1-Dichloropropene	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
Diisopropyl ether (DIPE)	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
Ethyl tert-butyl ether (ETBE)	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
Ethylbenzene	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
Hexachlorobutadiene	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
4-Isopropyltoluene	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
Methyl tert-butyl ether (MTBE)	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
Methylene chloride	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
Naphthalene	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
n-Propylbenzene	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
Styrene	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
Tetrachloroethene	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
Toluene	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
1,1,1-Trichloroethane	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
1,1,2-Trichloroethane	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
Trichloroethene	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
Trichlorofluoromethane (Freon 11)	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
1,2,3-Trichloropropane	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
Vinyl chloride	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
o-Xylene	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
m- & p-Xylenes	ND	ug/L	0.50	1	09/26/15	09/26/15 23:32	WB	
Surrogate: 4-Bromofluorobenzene		80-120	85 %		09/26/15	09/26/15 23:32		
Surrogate: 1,2-Dichlorobenzene-d4		80-120	88 %		09/26/15	09/26/15 23:32		

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Will Brewington, Staff Chemist

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: Jacks Landing

Project Number: E041599
Project Manager: Stephen Shelley

Reported:
09/28/15 15:58

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



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: Barlow Well Drilling
Attn: Mike Isom

FROM: Kevin M. Wolf, EHS Supervisor *KMW*
Groundwater Mgmt. Sec.
Well & Septic Program

DATE: August 28, 2015

RE: Jacks Landing Well Permits Lots 1 & 3

This memo is to inform the driller and the developer that the revised site plans for Lots 1 and 3 at Jack's Landing have been approved based on the following comments mentioned below. In order to proceed with drilling the new wells on the original permits approved 10/17/2014 respectively, you must:

1. Remove the existing well tags from the existing wells drilled previously 1/29/2015 & 2/6/2015 (Lot 1 = HO-14-0109, Lot 3 = HO-14-0111).
2. Abandon and seal the existing wells once the tags have been removed.
3. Re-attach the same allotted well tags to the corresponding well for that lot when the well is completed.
4. Sample each new well for VOC's, TDS, Sodium, and Chlorides.

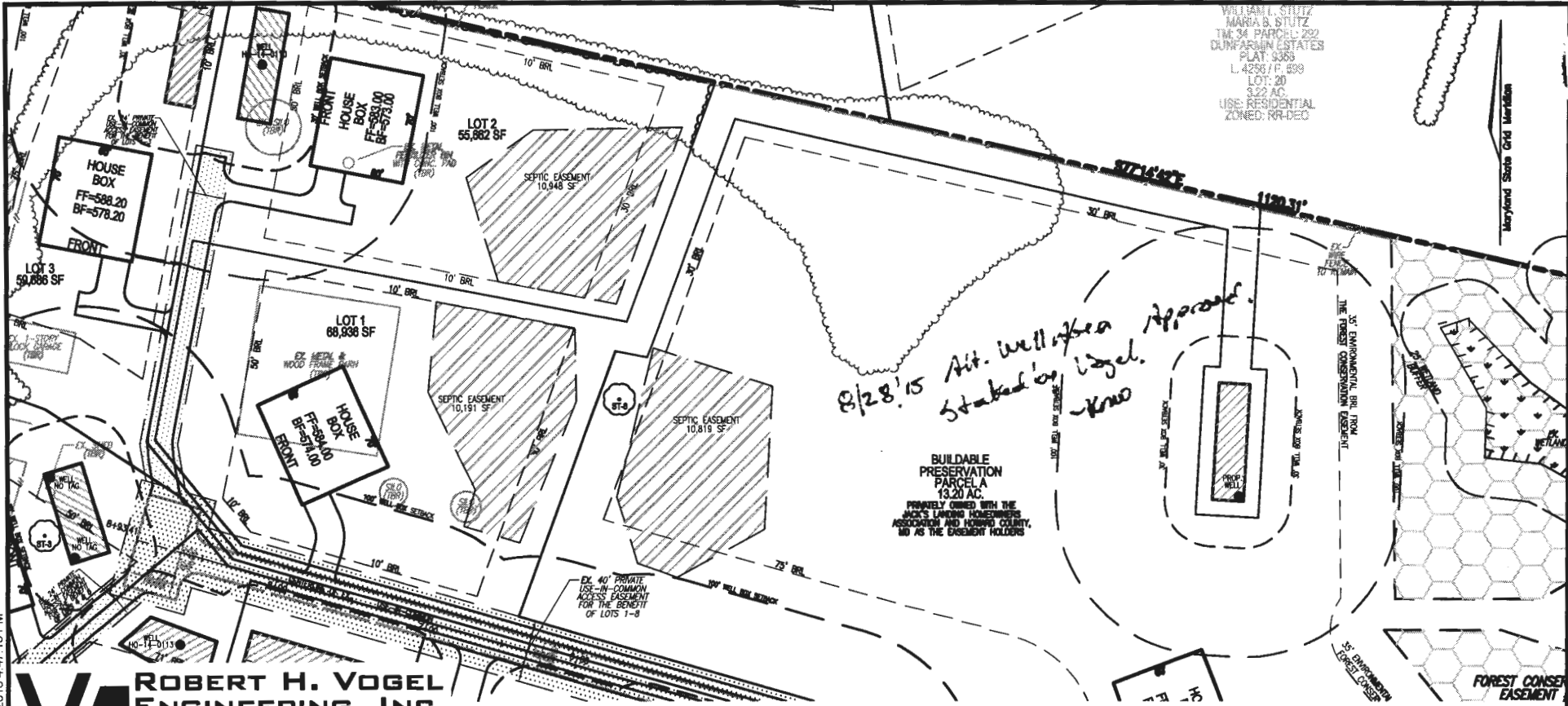
If an unsuccessful well(s) is rendered, you must notify our office before selecting a new location to drill.

If you have any questions regarding this memorandum, please feel free to contact me at 410-313-2645 or email kwolf@howardcountymd.gov

KMW

Cc Ron Green (Land Design and Development)

WILLIAM L. STUTZ
 MARIA B. STUTZ
 TRM 34 PARCEL 292
 DUNFARMIN ESTATES
 PLAT 9363
 L. 4236 / F. 699
 LOT 20
 3.22 AC.
 USE: RESIDENTIAL
 ZONED: RR-DEO



ROBERT H. VOGEL ENGINEERING, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 8407 MAIN STREET TEL: 410.461.7666
 ELLIOTT CITY, MD 21043 FAX: 410.461.8961

LOT 1 - WELL EXHIBIT
 SCALE: 1"=100'

LEGEND:

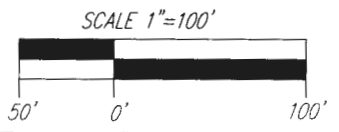
	PROPERTY LINE		EXISTING TREELINE		PROPOSED WELL BOX
	EXISTING RIGHT-OF-WAY LINE		EXISTING TREES		EXISTING UTILITY POLE
	PROPOSED RIGHT-OF-WAY LINE		EXISTING WOOD FENCE		PROPOSED SEPTIC EASEMENT
	ADJACENT PROPERTY LINE		EXISTING METAL FENCE		PROPOSED WELL LOCATION
	EXISTING CURB AND GUTTER				
	EXISTING EDGE OF PAVING				
	EXISTING TREELINE				

SCALE: 1"=100'
 DRAWN BY: JMR
 CHECKED BY: RHV
 DATE: AUGUST, 2015
 W. O. #: 13-31
 SHEET # 1 OF 1

WELL EXHIBIT - LOT 1
JACK'S LANDING
 LOTS 1-8, BUILDABLE PRESERVATION PARCEL "A"
 AND NON-BUILDABLE PARCEL "B"
 A SUBDIVISION OF TAX MAP 34
 PARCEL 414 (L. 3172 / F. 336)

TAX MAP: 34 GRID: 03
 5TH ELECTION DISTRICT

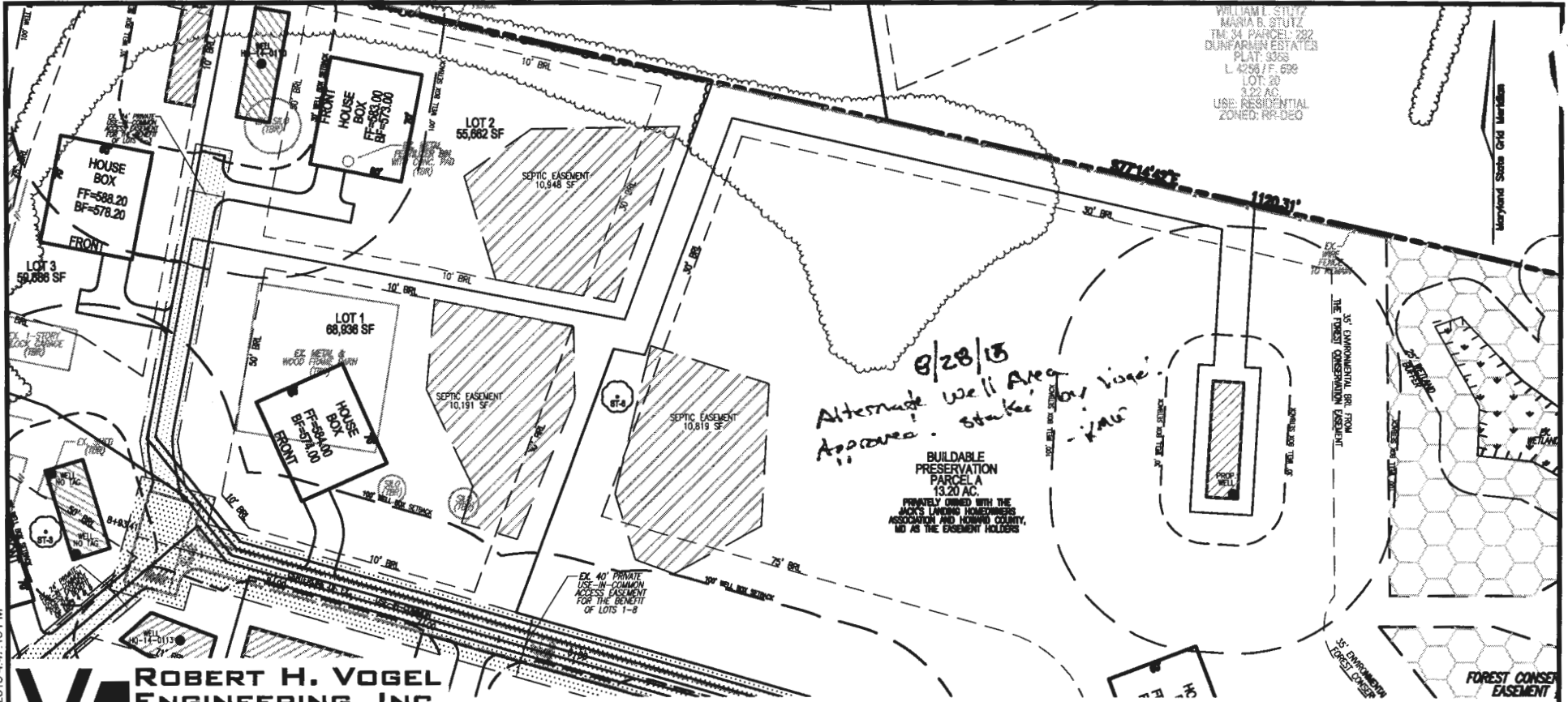
PARCEL: 414
 ZONED: RR-DEO
 HOWARD COUNTY, MARYLAND



K:\projects\13-31\ENGR\dwg\GRADING PLAN\WELL EXHIBIT LOT 1.dwg, 8/19/2015 4:47:15 PM

K:\Projects\13-31\ENGR\dwg\GRADING PLAN\WELL EXHIBIT_LOT 1.dwg, 8/19/2015 4:47:15 PM

WILLIAM L. STUTZ
 MARIA B. STUTZ
 TRM 34 PARCEL 282
 DUNFARMER ESTATES
 PLAT: 3333
 L. 4258 / F. 698
 LOT 20
 3.22 AC
 USE: RESIDENTIAL
 ZONED: RR-DEO



ROBERT H. VOGEL ENGINEERING, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 8407 MAIN STREET TEL: 410.461.7666
 ELLIBOTT CITY, MD 21043 FAX: 410.461.6961

LOT 1 - WELL EXHIBIT
 SCALE: 1"=100'

LEGEND:

	PROPERTY LINE		PROPOSED TREELINE		PROPOSED WELL BOX
	EXISTING RIGHT-OF-WAY LINE		EXISTING TREES		PROPOSED USE-IN-COMMON ACCESS EASEMENT PLAT.
	PROPOSED RIGHT-OF-WAY LINE		EXISTING WOOD FENCE		PROPOSED SEPTIC EASEMENT
	ADJACENT PROPERTY LINE		EXISTING METAL FENCE		PROPOSED WELL LOCATION
	EXISTING CURB AND GUTTER				
	EXISTING EDGE OF PAVING				
	EXISTING TREELINE				

SCALE:	1"=100'
DRAWN BY:	JMR
CHECKED BY:	RHV
DATE:	AUGUST, 2015
W. O. #:	13-31
SHEET #	1 OF 1

WELL EXHIBIT - LOT 1
JACK'S LANDING
 LOTS 1-8, BUILDABLE PRESERVATION PARCEL "A"
 AND NON-BUILDABLE PARCEL "B"
 A SUBDIVISION OF TAX MAP 34
 PARCEL 414 (L. 3172 / F. 336)
 PARCEL: 414
 ZONED: RR-DEO
 HOWARD COUNTY, MARYLAND

