

C1 5181 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. COUNTY NUMBER

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

ST/CO USE ONLY DATE RECEIVED DATE WELL COMPLETED

Depth of Well 22 300 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO - 95 - 1260

OWNER Brantly Development STREET OR RFD Lime Kiln Road TOWN Pulton SUBDIVISION Lime Kiln Valley SECTION LOT 20

WELL LOG Not required for driven wells

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Rows include Soil, Brown Shale, Gray Rock, and water at 90'.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N) TYPE OF GROUTING MATERIAL (CEMENT/BENTONITE CLAY) NO. OF BAGS/POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL

CASING RECORD

MAIN CASING TYPE (PL) Nominal diameter (6) Total depth of main casing (45)

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

SCREEN RECORD screen type or open hole (HO) DEPTH (nearest ft.) 45 300

PUMPING TEST

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 4.00 METHOD USED TO MEASURE PUMPING RATE Submersible WATER LEVEL (distance from land surface) BEFORE PUMPING 43 ft. WHEN PUMPING 270 ft. TYPE OF PUMP USED (for test) S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (YES/NO) TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (nearest foot)

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...

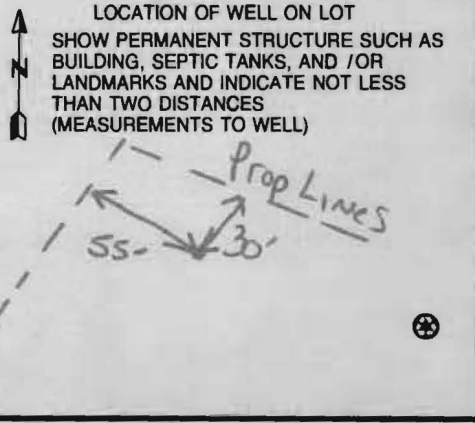
DRILLERS LIC. NO. M S D 162 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. A W D 766

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

SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) 56 60 from to

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 TELESCOPE CASING LOG INDICATOR OTHER DATA



B 1 9844
1 2 3 6

SEQUENCE NO.
(MDE USE ONLY)

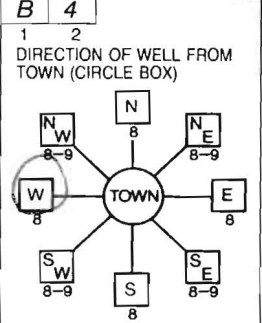
STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL
527237 please type

STATE PERMIT NUMBER
40-95-1260
70 fill in this form completely 79

Date Received (APA)
8 MM DD YY 13
OWNER INFORMATION
15 Brantly Development
Last Name Owner First Name 34
36 8835 N. Columbia 100 Pkwy
Street or RFD 55
57 Columbia MD 21045
Town 70 State 72 Zip 76

B 3 LOCATION OF WELL
Howard
8 COUNTY 21
Lime Kiln Valley
23 SUBDIVISION 42
SECTION 44 46 LOT 20 48 50
Fulton
52 NEAREST TOWN 71
MILES FROM TOWN (enter 0 if in town) 1 M I
73 76 77 78

DRILLER INFORMATION
Michael D. Isom MS D 162
Driller's Name 76 License No. 81
G. Edgar Harr Sons' Corp.
Firm Name
12047 Falls Road, Cockeysville 21030
Address
Signature Date 6/11/07



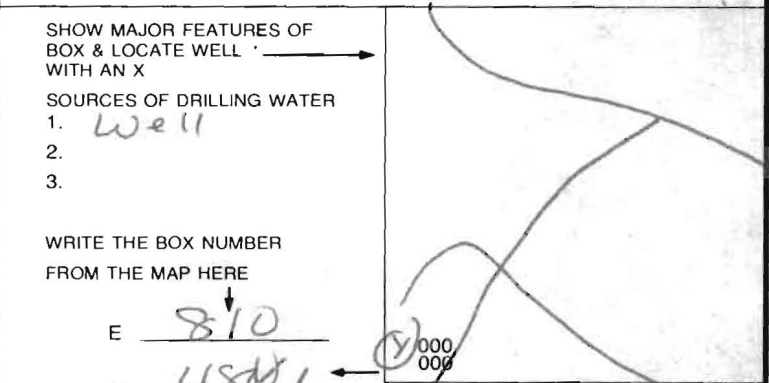
B 4
1 2
DIRECTION OF WELL FROM TOWN (CIRCLE BOX)
Lime Kiln Road
11 NEAR WHAT ROAD 30
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
NORTH
WEST EAST
SOUTH
34 300 37
DISTANCE FROM ROAD
ENTER FT OR MI 38 39
TAX MAP: 40 BLK: 22 PARCEL 114

B 2 WELL INFORMATION
1 2
APPROX. PUMPING RATE (GAL. PER MIN.) 5 8 12
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 750 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)
 DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
22 INDUSTRIAL, COMMERCIAL, DEWATERING
 PUBLIC WATER SUPPLY WELL
 TEST, OBSERVATION, MONITORING
 GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard AS19584
COUNTY NAME COUNTY NO.
STATE SIGNATURE INSERT S
DATE ISSUED 3/19/07 CO SIGNATURE 9/9/08 41
43 MM DD YY 48
NORTH GRID 481 0 0 0 EAST GRID 810 0 0 0
50 55 57 63

APPROXIMATE DEPTH OF WELL 250 24 28 FEET
APPROXIMATE DIAMETER OF WELL 6 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)
 THIS WELL WILL NOT REPLACE AN EXISTING WELL
 THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
39 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 HD 2004 G 013/02
PERMIT No. HD-95-1260
70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS
NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

HARR WELL DRILLING

12047 FALLS ROAD
COCKEYSVILLE, MD 21030
410-252-4588

HOWARD COUNTY WELL YIELD TEST REPORT

Date Test Performed: 10-03-07 Permit Number: HO-95-1260
Address: Lime Kiln Road Subdivision: Lime Kiln Valley L#20
Owner Name: Brantly Development Election District:
Well Depth: 300 Ft Static Water Level: 43 Ft

Time	Water Level	PSI Existing Pump	Pumping Rate Seconds to fill 1gallon bucket	Calculated Flow-Gallons Per Minute
1130	43 ft		3 sec	20.00
1145	150		4	15.00
1200	230		4	15.00
1215	270		15	4.00
1230	270		15	4.00
1245	270		15	4.00
1300	270		15	4.00
1315	270		15	4.00
1330	270		15	4.00
1345	270		15	4.00
1400	270		15	4.00
1415	270		15	4.00
1430	270		15	4.00
1445	270		15	4.00
1500	270		15	4.00
1515	270		15	4.00
1530	270		15	4.00

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: Tri County Pump Service Inc. Telephone #: 301-432-0330
Address: 6011 Old National Pike
Beensboro, Md 21910

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): William Griffith License# 20135

*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: Craftmark Homes Telephone #: 703-932-0573
Subdivision: Mary Woods Lot #: 20 Well Tag #: HO-95-1240
Site Address: 12875 Limekiln Rd
Highland, Md

Submersible Pump Data

Make: AY McDonald
Model #: 23050V2
Pump Capacity: 7 GPM
Well Yield: 12 GPM

Pitless Adapter

Make: American Candy
Model#: PT 900
Depth: 36" (36" min)
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

Depth of well encountered at time of pump installation: 250 (feet) Conduit secured to well cap: YES
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 ABOVE

Piping to house

Type: Poly
PSI: 160 (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): 20ft
Sleeve sealed properly: YES

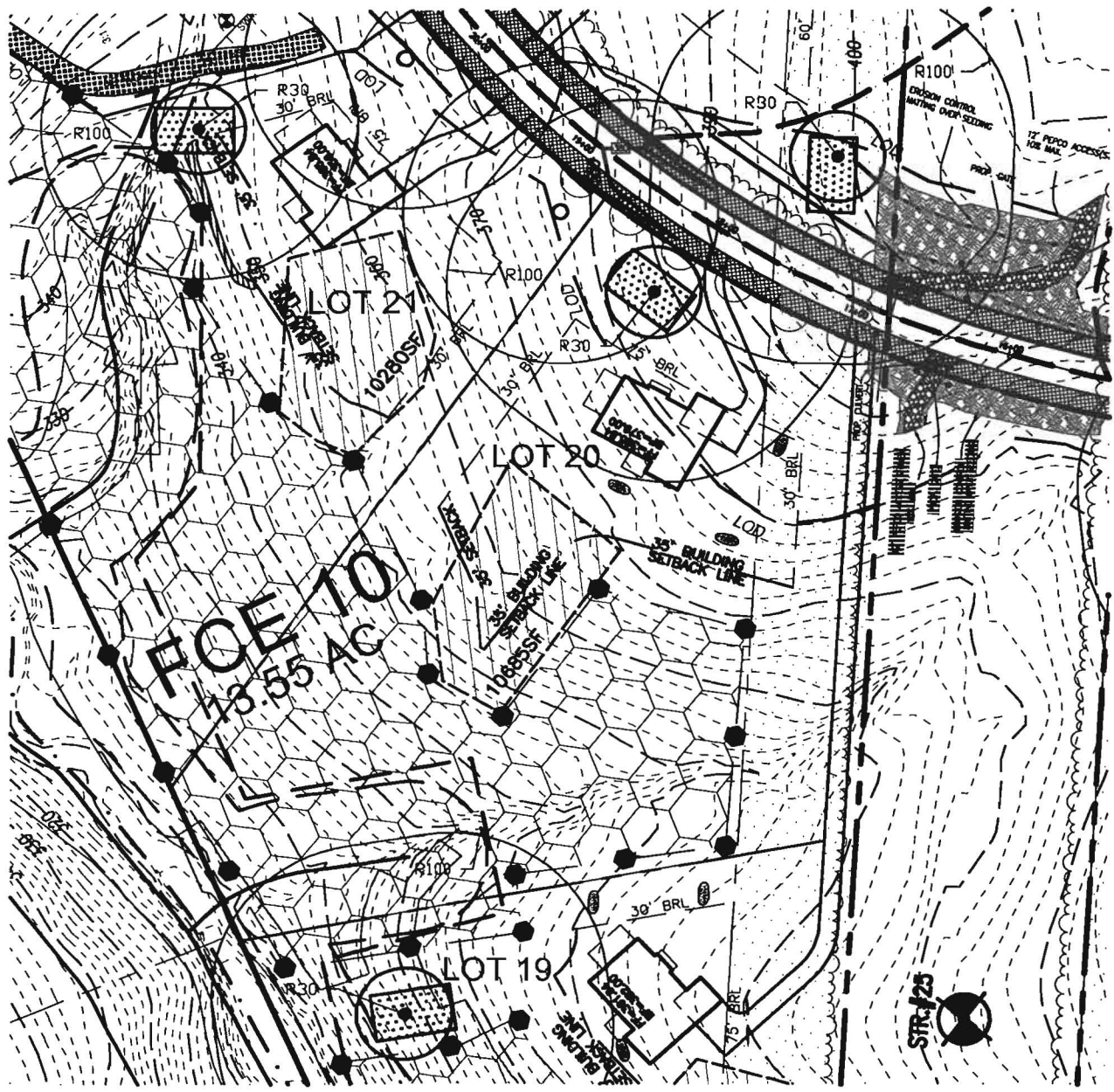
The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation: William Griffith date: 3-9-2011

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

Date Insp. Requested: _____ Date Insp. Approved: 9/2/10 Inspector: KW
Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade ✓
Two piece cap installed and attached to casing securely ✓
Elec. conduit extends at least 18" below grade/attached to cap properly ✓
Safety rope not outside of well cap/casing ✓
Correct well tag attached properly and casing 8" above finished grade ✓
Water supply line sleeved adequately at house connection ✓
Adequate grout observed below pitless adapter ✓

9/19/07 well site OK



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

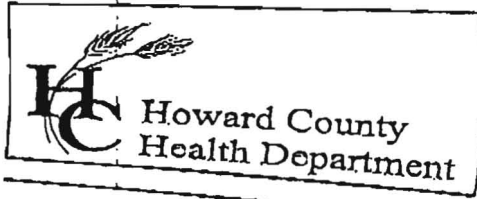
WELL PLAT LEGEND	
	SEPTIC EASEMENT
	PROPOSED WELL AREA

SCALE: AS SHOWN
 DRAWN BY: JCO
 CHECKED BY: RHV
 DATE: JUNE 2007
 PROJECT NO.: 04-21
 SHEET NO. 1 OF 1

**LIME KILN VALLEY II
 PHASE 1 & 2 (LOT 20)**

PROPOSED WELL LOCATION EXHIBIT

TAX MAP 40 & 45 PARCEL 114 & 12
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



7178 Columbia Gateway Drive, Columbia, MD 21046
 (410) 313-2640 Fax (410) 313-2640
 TDD (410) 313-2323 Toll Free 1-866-313-2640
 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:

Well Site Location:	Lots	Road Name
Lime Kiln Valley II	1-37	Lime Kiln Rd
Subdivision/Property Name	Lot#	Road Name

The well sites has been staked by Robert Vogle
 (professional land surveyor or company employing professional land surveyors)
 on _____ (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 3/11/05



Howard County
Health Department

Bureau of Environmental Health
7178 Gateway Drive Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
Website: www.hchealth.org

Peter Beilenson, M.D., M.P.H., Health Officer

March 9, 2011

Homeowner
12875 Lime Kiln Road
Higland, MD 21797

RE: Lime Kiln Valley, Lot 20
12875 Lime Kiln Road
BP #: B10002542
Well Tag: HO-95-1260

Dear Sir:

This is to advise you that the septic system for the above referenced property has been installed and inspected. **Final approval of the septic system was granted on 12/21/2010. Final approval of the well line connection to the dwelling was approved on 09/02/2010.**

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. The water sample results were found to be in compliance with COMAR water quality standards.

Enclosed with this certificate, is a copy of the septic permit and the as-built along with important information regarding the use and maintenance of your septic system. Please read through carefully and thoroughly. Any questions regarding your well and/or septic, please call this office for guidance 410-313-1771.

INTERIM CERTIFICATE OF POTABILITY

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-95-1260. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies. Based upon satisfactory investigation and evaluation, the Howard County Health Department as authorized by the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.

This certificate may become final upon completion of the second bacteriological test, which is to be taken by the county health department within six months of receipt of this letter. **Please contact (410) 313-1773 to schedule a final water sample appointment. Currently, there is no charge for this final sampling.**

Date of Water Samples: 02/24/2011
Date of Well Completion: 10/09/2007

Approving Authority,



Brian Baker, R. S.
Environmental Sanitarian
Well & Septic Program

cc: Building Inspector's Office
Community Hygiene Program
File



Fredericktowne Labs Inc.

ENVIRONMENTAL TESTING

3020 Ventrie Court • P.O. BOX 245 • Myersville, MD 21773 • 800-332-3340 • FAX 301-293-2368
www.fredericktownelabs.com • info@fredericktownelabs.com

Certificate of Analysis

Acct. No. 3948 - 550-1

Field Record

Site visit performed on: Thursday, February 24, 2011 10:30 AM
by: Don Thomas State ID No. 8765DT
Affiliation: Tri-County Pump Service Inc.
Property Owner: Craftmark Homes
Project: Craftmark Homes
Property Address: 12875 Lime Kiln Road
Highland, MD 20777
Sample Source: Powder Room Faucet
Field pH: 7.1
Res. Cl.: 0.0 mg/l

Laboratory Report

Sample Received at laboratory: 2/25/2011 8:32 AM

Bacteriological results:

<u>Total Colif. (/100ml)</u>	<u>E.coli. (/100ml)</u>	<u>Start</u>		<u>End</u>		<u>Method</u>	<u>Analyst</u>
		<u>Date</u>	<u>Time</u>	<u>Date</u>	<u>Time</u>		
<1	<1	02/25/11-14:45		02/26/11-14:45		9223B	WH

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

Inorganic Chemical results:

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>MCL</u>	<u>Date of Analysis</u>	<u>Method</u>	<u>Analyst</u>
Nitrate-Nitrogen	0.8	mg/l	10	2/25/2011	300.0	PH
Sand	<2	mg/l	5	2/28/2011	0.065mmFilter	JD
Turbidity	0.1	NTU'	10	2/25/2011	180.1	JD

Reported by: Alavia Phelps 2/28/11
Name Date

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

2/28/2011 1:13:11 PM

Page 1 of 1
No Regulatory Reports Required



Fredericktowne Labs Inc.

ENVIRONMENTAL TESTING

3020 Ventrie Court • P.O. BOX 245 • Myersville, MD 21773 • 800-332-3340 • FAX 301-293-2366
 www.fredericktownelabs.com • info@fredericktownelabs.com

Certificate of Analysis

Acct. No. 3948 - 552-1

Field Record

Site visit performed on: Wednesday, March 02, 2011 12:30 PM
 by: Don Thomas State ID No. 8765DT
 Affiliation: Tri-County Pump Service Inc.
 Property Owner: Craftmark Homes
 Property Address: 12875 Lime Kiln Rd.
 Highland, MD
 Sample Source: First Floor Powder Room
 Res. Cl.: 0.0 mg/l

Laboratory Report

Sample Received at laboratory: 3/2/2011 2:40 PM

Bacteriological results:

<u>Total Colif. (/100ml)</u>	<u>E.coli. (/100ml)</u>	<u>Start</u>		<u>End</u>		<u>Method</u>	<u>Analyst</u>
		<u>Date</u>	<u>Time</u>	<u>Date</u>	<u>Time</u>		
<1	<1	03/02/11	15:30	03/03/11	15:32	9223B	JD

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

Reported by:

[Handwritten Signature]
 Name _____ Date 3/4/11

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