

C 1 6613 SEQUENCE NO. (DENV 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 PRINT OR TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
 COUNTY NUMBER **A 522 987**

ST/CO USE ONLY
 DATE Received **07/14/11**
 DATE WELL COMPLETED **07/12/11**

Depth of Well **9/16/2011**
260
 (TO NEAREST FOOT) **O.K. RB**

PERMIT NO. FROM "PERMIT TO DRILL WELL"
40-95-2119

OWNER **Heritage Land Development**
 STREET OR RFD **Meriwether Drive** TOWN **Stensley**
 SUBDIVISION **Meriwether Farm** SECTION **2** LOT **42**

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	
Sand	0	43	
Mica Rock	43	260	
			Water 210

GROUTING RECORD
 WELL HAS BEEN GROUTED (Circle Appropriate Box) **Y** **N**
 TYPE OF GROUTING MATERIAL
 CEMENT **CM** BENTONITE CLAY **BC**
 NO. OF BAGS **13** NO. OF POUNDS **1322**
 GALLONS OF WATER **78**
 DEPTH OF GROUT SEAL (to nearest foot)
 from **0** ft. to **44** ft.
 (enter 0 if from surface)

CASING RECORD
 casing types insert appropriate code below
ST CO STEEL CONCRETE
PL OT PLASTIC OTHER
 MAIN CASING TYPE
PL **OG** **47**
 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 insert appropriate code below
ST BR HO STEEL BRASS OPEN HOLE
PL OT PLASTIC OTHER

IN HARD ROCK AREAS, IDENTIFY SPECIFICALLY WHERE SATURATED FRACTURES WERE OBSERVED.

WELL HYDROFRACTURED **Y** **N**

C 2

E A C H S C R E E N	DEPTH (nearest ft.)	
	8 9	11 15 17 21
1	H0 43	260
2		
3		

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

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 IDENT. NO. **MSD117**
Rahel Mayne
 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)
Rahel Mayne

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

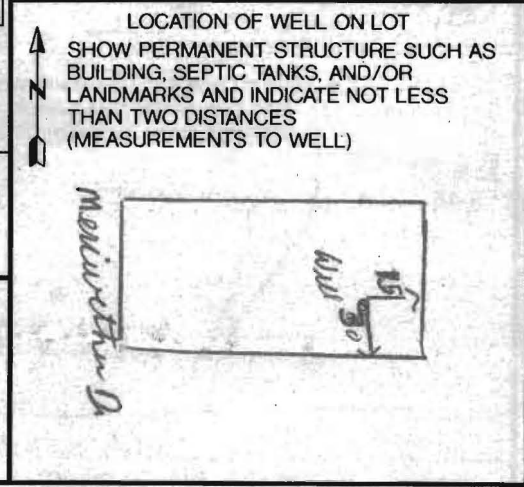
GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)
 T (E.R.O.) W Q
 70 72 74 75 76
 TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

PUMPING TEST
 HOURS PUMPED (nearest hour) **03**
 PUMPING RATE (gal. per min. to nearest gal.) **20**
 METHOD USED TO MEASURE PUMPING RATE **Bucket**
 WATER LEVEL (distance from land surface)
 BEFORE PUMPING **24**
 WHEN PUMPING **39**
 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 WILL INSTALL PUMP YES NO
 IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
 TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE:
 CAPACITY: GALLONS PER MINUTE (to nearest gallon)
 PUMP HORSE POWER
 PUMP COLUMN LENGTH (nearest ft.)
 CASING HEIGHT (circle appropriate box and enter casing height)
+ above } LAND SURFACE **02** (nearest foot)
- below }



B 1 0951
1 2 3 6

SEQUENCE NO.
(MDE USE ONLY)

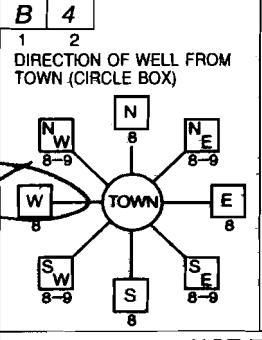
STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL
535167 please type

STATE PERMIT NUMBER
HO-95-2119
70 fill in this form completely 79

Date Received (APA) 04 20 11
8 MM DD YY 13
OWNER INFORMATION
Heritage Land Development
15 Last Name Owner First Name 34
P.O. Box 482
36 Street or RFD 55
Lisbon MD 21765
57 Town 70 State 72 Zip 76

B 3 HOWARD LOCATION OF WELL
8 COUNTY 21
Meriwether Farm
23 SUBDIVISION 42
SECTION 2 LOT 42
44 46 48 50
Glenelg
52 NEAREST TOWN 71
MILES FROM TOWN (enter 0 if in town) 2 M 1
73 76 77 78

DRILLER INFORMATION
Ralph E Mayne M SD 117
76 License No. 81
Ralph Mayne Well Drilling
Firm Name
17024 Hardy Rd, Mt. Airy, MD 21771
Address
R E Mayne 4/19/11
Signature Date



B 4
1 2
DIRECTION OF WELL FROM TOWN (CIRCLE BOX)
Meriwether DR
11 NEAR WHAT ROAD 30
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
34 390 37
DISTANCE FROM ROAD ENTER FT OR MI 38 39
TAX MAP: 21 BLK: 16 PARCEL 28

B 2 WELL INFORMATION
APPROX. PUMPING RATE 5
(GAL. PER MIN.) 8 12
AVERAGE DAILY QUANTITY NEEDED 500
(GAL. PER DAY) 14 20

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

NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVAL
Howard 13 A522987
COUNTY NAME COUNTY NO.
STATE SIGNATURE INSERT S
DATE ISSUED 5/2/2011 Brian Baker 5/2/2012
43 MM DD YY 48 CO SIGNATURE EXP. DATE
NORTH GRID 518 000 EAST GRID 792 000
50 55 57 63

APPROXIMATE DEPTH OF WELL 150 FEET
24 28

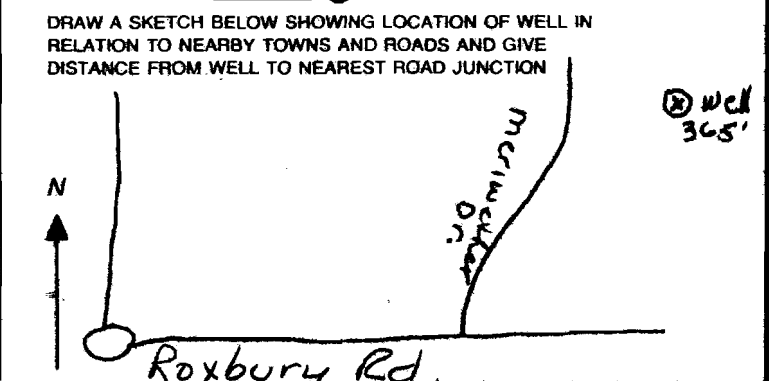
APPROXIMATE DIAMETER OF WELL 6" NEAREST INCH

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 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
39 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 52

Not to be filled in by driller (MDE OR COUNTY USE ONLY)
APPROP. PERMIT NUMBER HO 2008G010
PERMIT No. HO-95-2119
70 71 72 73 74 75 76 77 78 79

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X
SOURCES OF DRILLING WATER
1. Well
2.
3.
WRITE THE BOX NUMBER FROM THE MAP HERE
E 792
N 518
000 000



SPECIAL CONDITIONS
NOTE - APPROVING AUTHORITIES SHOULD...
Wells Within 100' Must Be Simultaneously Yield Tested

**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: Foales Well Drilling LLC Telephone #: 443-609-4195
Address: PO BOX 202
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): Allen Compton License# MSD0009

*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 #: 410-489-7407
Subdivision: Cattail Overlook Lot #: 42 Well Tag #: HO-95-219
Site Address: 14832 Meriwether Dr
Glenn, MD 21737

<u>Submersible Pump Data</u>	<u>Pitless Adapter</u>	<u>Well Cap and Electric Conduit</u>
Make: <u>Grundfos</u>	Make: <u>Campbell</u>	Two piece watertight cap: <u>YES</u>
Model #: <u>ISSAEP7-180</u>	Model#: <u>N/A</u>	Screened, vented well cap: <u>YES</u>
Pump Capacity <u>7</u> GPM	Depth: <u>36"</u> (36" min)	Cap secured to casing: <u>YES</u>
Well Yield: <u>20</u> GPM	NSF/WSC approved: <u>YES</u>	Conduit min 18" B.G.: <u>YES</u>
Depth of well encountered at time of pump installation: <u>260</u> (feet)		Conduit secured to well cap: <u>YES</u>
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 <u>inside of well casing</u> <u>N/A</u>		

<u>Piping to house</u>	<u>House Connection</u>
Type: <u>1" poly pipe</u>	PVC sleeve to undisturbed soil at wall penetration: <u>YES</u>
PSI: <u>160</u> (160 psi min)	Length of sleeve (5' minimum from foundation): <u>5'</u>
Depth of supply line: <u>36"</u> (36" min)	Sleeve sealed properly: <u>YES</u>

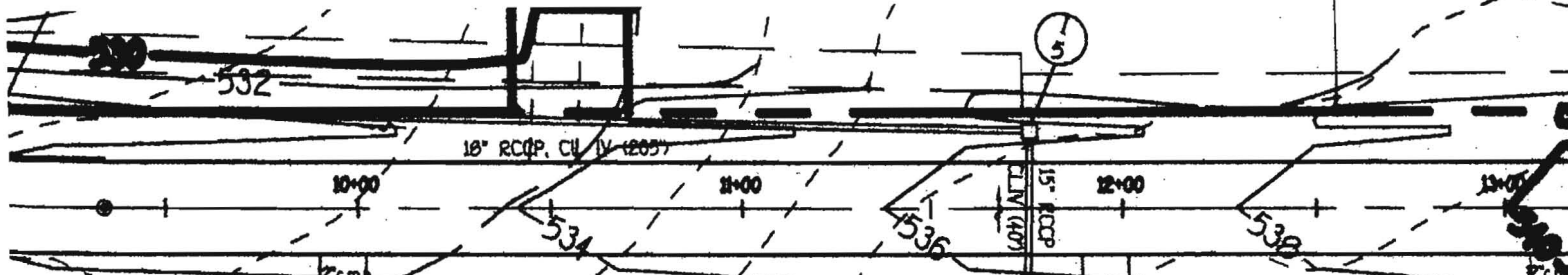
The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation: Allen Compton date: 10/24/13

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

Date Insp. Requested: _____ Date Insp. Approved: 10/25/13 Inspector: KW

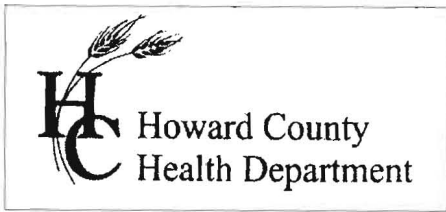
Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade	<input checked="" type="checkbox"/>
Two piece cap installed and attached to casing securely	<input checked="" type="checkbox"/>
Elec. conduit extends at least 18" below grade/attached to cap properly	<input checked="" type="checkbox"/>
Safety rope not outside of well cap/casing	<input checked="" type="checkbox"/>
Correct well tag attached properly and casing 8" above finished grade	<input checked="" type="checkbox"/>
Water supply line sleeved adequately at house connection	<input checked="" type="checkbox"/>
Adequate grout observed below pitless adapter	<input checked="" type="checkbox"/>



Will Site Plan (1313)
5/2/2011

FOREST CONSERVAT.
 EASEMENT NO. 926 AC. RETENT.
 7.95 AC. REFOR.

FOREST



7178 Columbia Gateway Dr., 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 L. Bielson, M.D., M.P.H., Health Officer

TO ALL INTERESTED PARTIES

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

Well Site Location:

Meriwether Farm, Sec. II, Ph. 2	42	Meriwether Drive
Subdivision/Property Name	Lot #	Road Name

- The well site has been staked by Fisher, Collins & Carter, Inc.,
 (professional land surveyor or company employing professional land surveyors)
 on 03/21/11 (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 3/11/07

11. NON-TRANSFERRABLE - THIS PERMIT IS NON-TRANSFERRABLE. A NEW OWNER MAY ACQUIRE AUTHORIZATION TO CONTINUE THIS APPROPRIATION BY FILING A NEW APPLICATION WITH THE ADMINISTRATION. AUTHORIZATION WILL BE ACCOMPLISHED BY ISSUANCE OF A NEW PERMIT.

12. *****
* INITIATION OF WITHDRAWAL - THE PERMITTEE SHALL NOTIFY THE*
* ADMINISTRATION BY CERTIFIED MAIL WHEN WITHDRAWALS FOR THE*
* USES SPECIFIED IN THIS PERMIT HAVE BEEN INITIATED. THIS *
* PERMIT SHALL EXPIRE IF WATER WITHDRAWAL IS NOT COMMENCED *
* WITHIN TWO YEARS AFTER THE EFFECTIVE DATE OF THIS PERMIT *
* EXCEPT THAT UPON WRITTEN REQUEST TO THE ADMINISTRATION *
* PRIOR TO THE EXPIRATION OF THE TWO YEAR PERIOD, THE TIME *
* LIMIT MAY BE EXTENDED FOR GOOD CAUSE, AT THE DISCRETION *
* OF THE ADMINISTRATION. *

13. WELL SPACING- IN ORDER TO MINIMIZE THE POTENTIAL FOR INTERFERENCE BETWEEN WELLS, ALL WELLS SHALL BE LOCATED WITHIN LOCALLY APPROVED WELL BOXES AND, WHERE FEASIBLE, BE CONSTRUCTED SO AS TO ACHIEVE A SEPARATION OF AT LEAST 100 FEET FROM EACH OTHER AND/OR FROM EXISTING WELLS ON OTHER PROPERTIES. THE PERMITTEE SHALL CONDUCT SIMULTANEOUS YIELD TESTS FOR ANY WELLS THAT ARE SEPARATED BY LESS THAN 100 FEET. IN THE EVENT THAT A WELL TESTED SIMULTANEOUSLY WITH OTHER WELLS DOES NOT MEET MINIMUM YIELD STANDARDS, THE PERMITTEE SHALL RELOCATE OR DEEPEN THE WELL OR SEEK LOCAL APPROVAL TO RELOCATE THE WELL BOXES SO AS TO ACHIEVE THE 100-FOOT SEPARATION DISTANCE. ALL WELLS SHALL COMPLY WITH WELL CONSTRUCTION REQUIREMENTS.

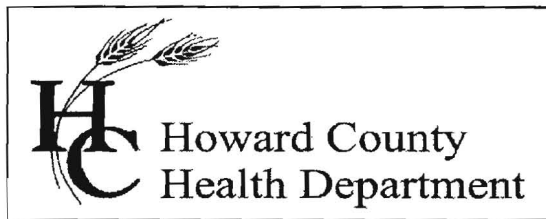
BY AUTHORITY OF THE DIRECTOR
WATER MANAGEMENT ADMINISTRATION

John W. Grace

2/6/2009

for John W. Grace, Chief
SOURCE PROTECTION AND APPROPRIATION DIV

MSM



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
Main: 410-313-6300 | Fax: 410-313-6303
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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – September 30, 2014

March 31, 2014

Homeowner
14832 Meriwether Drive
Glenelg, MD 21737

**RE: Meriwether Farms Lot 42
14832 Meriwether Drive
Building Permit: B12001470
Well Permit: HO-95-2119**

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 **11/12/2013**. Final approval of the well line connection to the dwelling was granted on **10/25/2013**. The well construction was completed on **7/12/2011**. Water samples were collected on **3/24/2014**.

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-95-2119. 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>

Approving Authority,

A handwritten signature in black ink, appearing to read "Jeff Williams", with a long horizontal flourish extending to the right.

Jeff Williams
Environmental Sanitarian
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 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: 93504 Account #: 1930
Reference: Toll Brothers Lot #42 Company: Fogle's Well Drilling
Location: 14832 Meriwether Drive Requested By: Dave Fogle
Glenelg, MD 21737 Source: Well Water
Date/ Time Collected: 3/24/2014 1351 Site: Kitchen Sink Tap
Date/Time Rec'd: 3/24/2014 1440 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 6.2
Collected By: J. Fogle 1974JF Well #: HO-95-2119

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	3/25/2014 / 0930 / LLO
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	3/25/2014 / 0930 / LLO
Nitrate	4.55	mg/L	10	601	3/25/2014 / 1300 / BCD
Turbidity	0.38	NTU	<10	SM18 2130B	3/25/2014 / 0905 / JKW
Sand	NS	mg/L	5	Visual/Gravimetric	3/25/2014 / 0905 / JKW

OK JFW
3/31/14

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 NS = None Seen (NS indicates less than 5 mg/L)
- 4 NTU = Nephelometric Turbidity Units
- 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 pH and Chlorine level tested in lab
- 8 Sample collected by client, analyzed as received

Reason for Test : Use & Occupancy

Building Permit # : 12001470

Date Reported: 3/25/2014