

C 1 3876

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

1 2 3 4 5 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER 13 A517937

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED 03 24 05

Depth of Well 130 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 8/10/05 10-94-4082

OWNER Thompson Builders last name first name STREET OR RFD Patterson Farm Court TOWN Glenelg SUBDIVISION Hopkins Choice SECTION LOT 13

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Top Soil, Sandy, Sand Stone, MICKA, Sand Stone, MICKA.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM), CEMENT (CM), BENTONITE CLAY (BC), NO. OF BAGS 19, NO. OF POUNDS 1500, GALLONS OF WATER 114, DEPTH OF GROUT SEAL 30 ft.

CASING RECORD: MAIN CASING TYPE PL, Nominal diameter top (main) casing 6, Total depth of main casing 70.

SCREEN RECORD: screen type or open hole (HO), insert appropriate code below.

OTHER CASING (if used) table with columns: diameter inch, depth (feet) from, to.

DEPTH (nearest ft.) table with columns: 1-11, 15-17, 21-23, 26-28, 30-32, 36-38, 39-41, 45-47, 51-53.

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (Y)

CIRCLE APPROPRIATE LETTER: A, E, P

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. 1 MSD112 DRILLERS SIGNATURE (Must match signature on application)

LIC. NO. 1 D

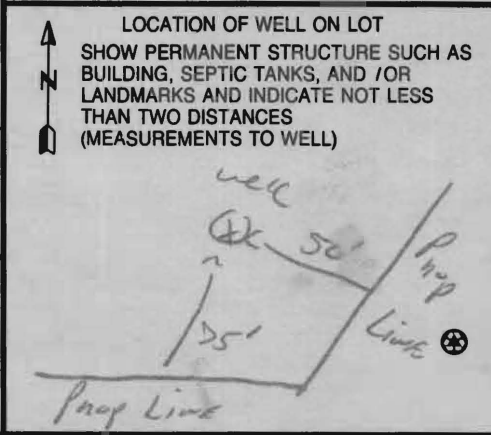
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

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, PUMPING RATE (gal. per min.) 15, METHOD USED TO MEASURE PUMPING RATE Bucket, WATER LEVEL (distance from land surface) BEFORE PUMPING 20 ft, WHEN PUMPING 26 ft, TYPE OF PUMP USED (for test) S submersible.

PUMP INSTALLED: DRILLER INSTALLED PUMP (YES), 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 (nearest foot) 2.



B 1 5782

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO-94-4082

W524563

please print or type

fill in this form completely

Date Received (APA)

11/04/04

OWNER INFORMATION

Thompson Builders Inc, 6300 Woodside Ct. Suite A, Columbin MA 21046

B 3 LOCATION OF WELL

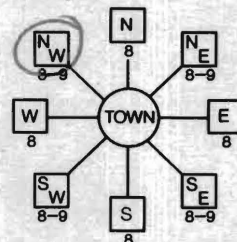
Howard COUNTY, HOPKINS CHOICE SUBDIVISION, SECTION 44 46, LOT 13, GLENELG NEAREST TOWN

DRILLER INFORMATION

Ralph E. Mayne M S D 112, Ralph E. Mayne Inc, 17024 Handy Rd. Mt Airy MA 21771, 10-10-04

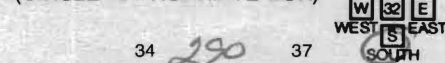
MILES FROM TOWN (enter 0 if in town) 1 73, 76 77 78

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Patterson Farm Ct, NEAR WHAT ROAD

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



34 290 37, DISTANCE FROM ROAD ENTER FT OR MI 38 39

TAX MAP: 21 BLK: 12 PARCEL 111

B 2 WELL INFORMATION

APPROX. PUMPING RATE 5 GAL. PER MIN., AVERAGE DAILY QUANTITY NEEDED 500 GAL. PER DAY

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION (circled), FARMING, INDUSTRIAL, PUBLIC WATER SUPPLY WELL, TEST, OBSERVATION, MONITORING, GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard 13 A517937 COUNTY NAME COUNTY NO., STATE SIGNATURE, DATE ISSUED 1/13/2005, CO SIGNATURE Brian Baber, EXP. DATE 1/13/2006, NORTH GRID 522 000, EAST GRID 800 000

APPROXIMATE DEPTH OF WELL 150 FEET

APPROXIMATE DIAMETER OF WELL 6" NEAREST INCH

METHOD OF DRILLING (circle one)

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

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- THIS WELL WILL NOT REPLACE AN EXISTING WELL (circled), THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED, 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 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)

APPROX. PERMIT NUMBER HO2004 GAP 011 (01), PERMIT No. HO-94-4082

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

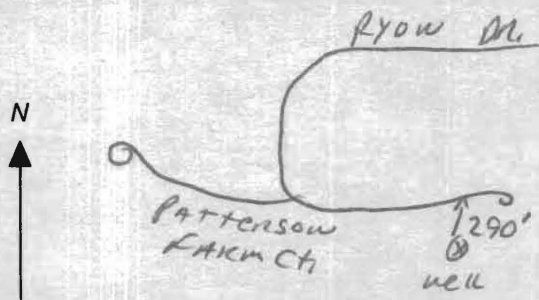
SOURCES OF DRILLING WATER

- 1. well, 2., 3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 800, N 522

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED -

8/18/05
 KN

FIELD DATA SHEET
 HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 94-4082
 Location of property (road) Patterson Farm Court
 Subdivision Hopkins Choice Lot 13 Block _____ Plat _____ Sec. _____
 Well Driller Ralph Mayne Owner Thompson Builders

Depth of well 130
 Distance of measuring point (M.P.) above ground 2'
 Static water level (S.W.L.) below M.P. 20 ft

I. High rate pumping -- reservoir drawdown

Time pump started 8:30 Pumping rate 15 GPM
 Total time 15 min to reach pumping water level 26 ft. below M.P.

II. Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill 5 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
8:30	20 ft	4 Sec		15 GPM
			TEST Started	
8:45	26 ft	4 Sec		15 GPM
9:00	26 ft	4 Sec		15 GPM
9:15	26 ft	4 Sec		15 GPM
9:30	26 "	4 "		15 "
9:45	26 "	4 "		15 "
10:00	26 "	4 "		15 "
10:15	26 ft	4 Sec		15 GPM
10:30	26 ft	4 Sec		15 GPM
10:45	26 ft	4 Sec		15 GPM
11:00	26 "	4 "		15 "
11:15	26 "	4 "		15 "
11:30	26 ft	4 Sec		15 GPM
11:45	26 ft	4 Sec		15 GPM

**HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 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: Fogles Well Drilling Telephone #: 443-609-4195
Address: P.O. 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# MSD 009

*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: Toll Brothers Telephone #: 410-320-0223
Subdivision: Glencola Estates Lot #: 13 Well Tag #: HO - 94-3482 ✓
Site Address: 14025 Patterson Farm Ct
Glencola, Md

Submersible Pump Data

Make: Grundfos
Model #: 1550E 07-180
Pump Capacity 15 GPM
Well Yield: 30 GPM

Pitless Adapter

Make: Campbell
Model #: N/A
Depth: 36 (36" min)
NSF 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: 150 (feet)
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Torque arrestors or Cable guards are required - Must circle one

Safety rope, if used, attached to inside of well casing with eye bolt N/A

Piping to house

Type: 1" Black Plastic
PSI: 160 (160 psi min)
Depth of supply line: 42' (36" min)

House Connection

PVC sleeved to undisturbed soil at wall penetration: yes
Approximate length of sleeve: 5'
Sleeve caulked and 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.

Allen Compton
Signature of company representative responsible for installation

7/07/11
date

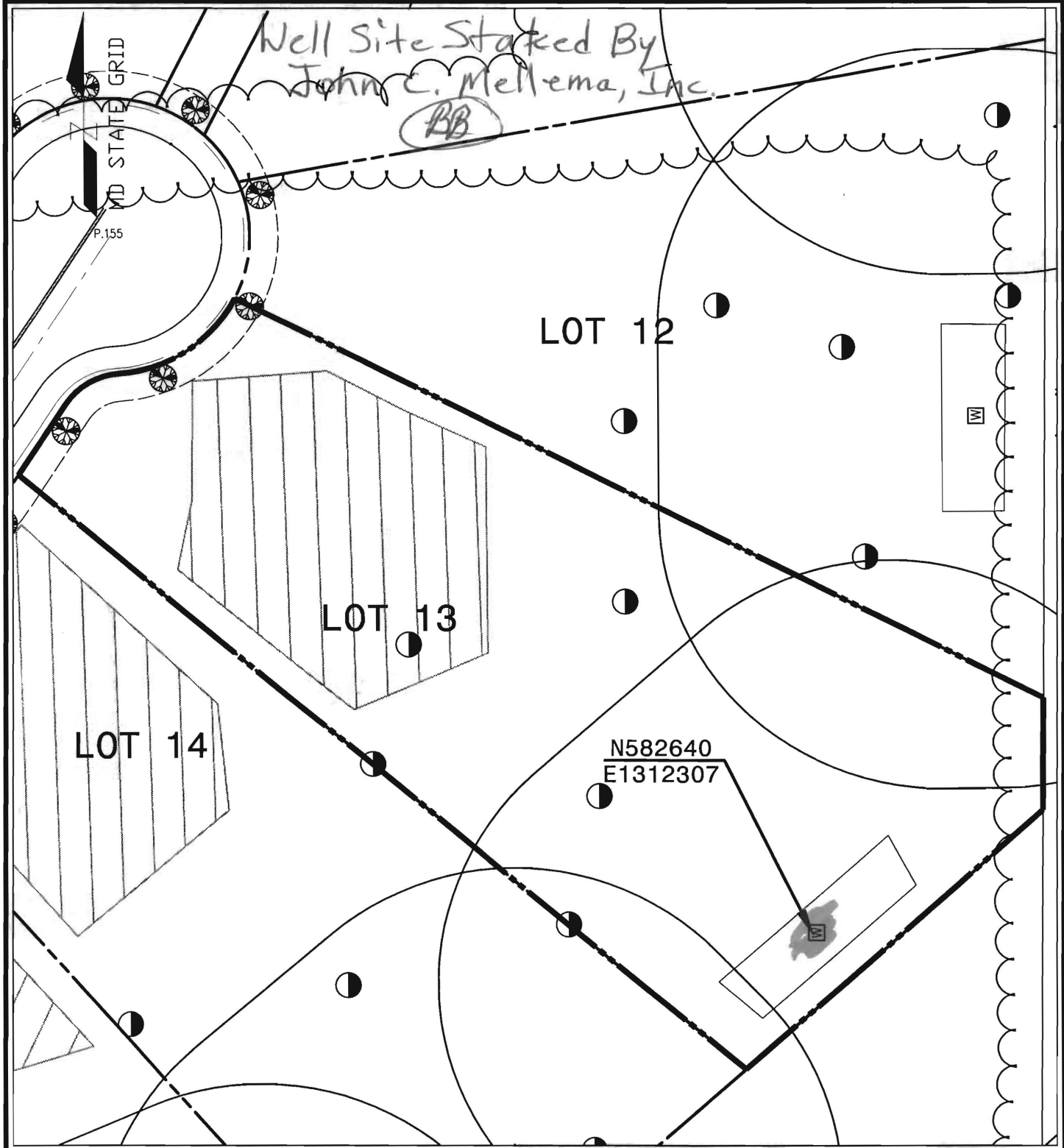
For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: _____	Date Insp. Approved: <u>BB</u>
Inspection Data: Pitless adapter and 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 installed inside of well casing	<input checked="" type="checkbox"/>
Correct well tag attached properly and casing 3" 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"/>

1/13/2005

Well Site Staked By
John C. Mellema, Inc.

BB



WELL LOCATION PLAN
LOT 13

HOPKINS CHOICE SUBDIVISION

4th ELECTION DISTRICT, TAX MAP # 21, GRID 12, ZONE : RR-DEO PARCEL 111
HOWARD COUNTY, MARYLAND

1" = 50'
SCALE :

10-21-04
DATE :

PREPARED BY :

American Land Development
and Engineering, Inc.

10749 BIRMINGHAM WAY
WOODSTOCK, MD. 21163
TEL. (410) 465-7903
FAX. (410) 465-3845

CONTRACT No.

FILE No.



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

September 28, 2011

Homeowner
14075 Patterson Farm Court
Glenelg, MD 21737

RE: Hopkins Choice, Lot 13
14075 Patterson Farm Court
BP #: B11000244
Well Tag: HO-94-4082

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 08/15/2011. Final approval of the well line connection to the dwelling was approved on 07/07/2011.**

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.

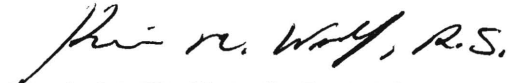
INTERIM CERTIFICATE OF POTABILITY

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-94-4082. 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: 09/26/2011
Date of Well Completion: 03/24/2005

Approving Authority,



Kevin M. Wolf, R. S., R.E.H.S
Environmental Sanitarian
Well & Septic Program

cc: Building Inspector's Office
Community Hygiene Program
File

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

REPORT OF ANALYSIS

Laboratory ID #:	81434	Account #:	1930
Reference:	Toll Brothers Lot 13	Company:	Fogle's Well Drilling
Location:	14075 Patterson Farm Court Glenelg, MD 21737	Requested By:	Dave Fogle
Date/ Time Collected:	9/26/2011 1015	Source:	Well Water
Date/Time Rec'd:	9/26/2011 1150	Site:	Kitchen Sink
Chlorine ppm:	Free: ND Total: ND	Treatment:	None
Collected By:	J. Fogle 1974JF	pH:	5.8
		Well #:	HO-94-4082

OK

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	9/27/2011 / 0900 / KME
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	9/27/2011 / 0900 / KME
Nitrate	4.45	mg/L	10	601	9/26/2011 / 1600 / CCH
Turbidity	1.73	NTU	<10	SM18 2130B	9/26/2011 / 1345 / KME
Sand	NS	mg/L	5	Visual/Gravimetric	9/26/2011 / 1345 / KME

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 Sample collected by client, analyzed as received
- 8 pH and Chlorine level tested on site

Reason for Test : Use & Occupancy
 Building Permit # : B-11000244

Date Reported: 9/27/2011