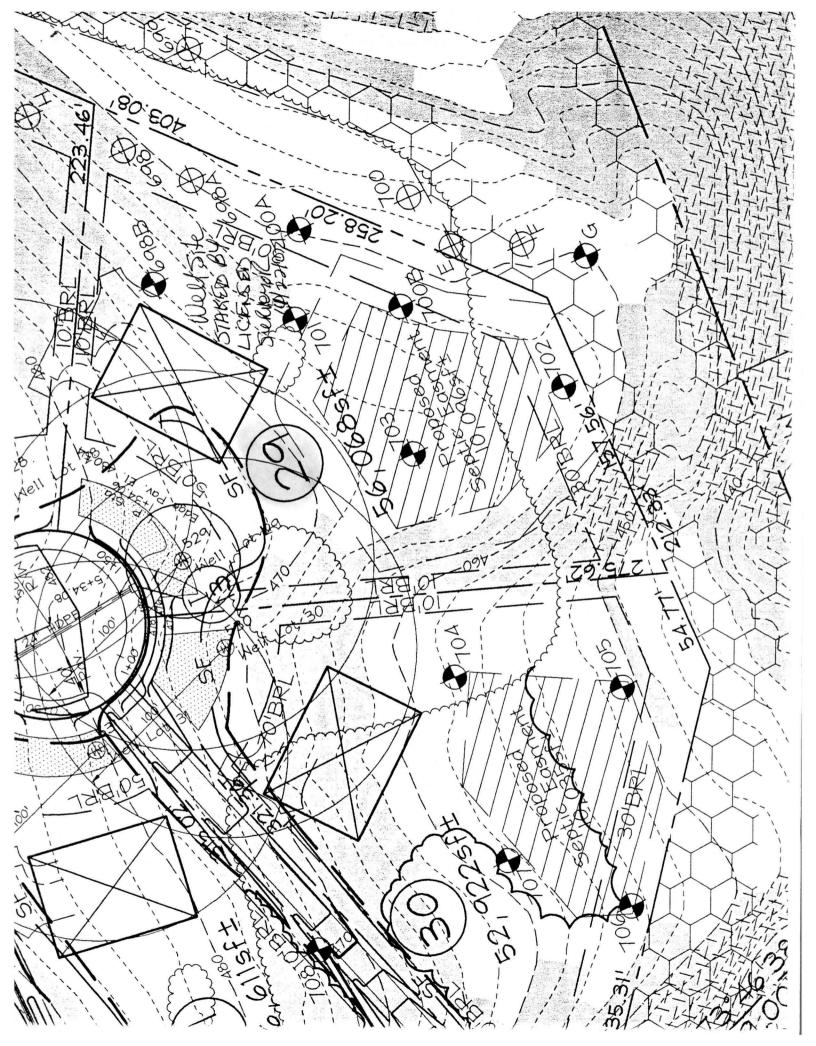
C1 14349 (MDE USE ONLY)	STATE OF MARYLAND	45 DAYS AFTER WELL IS COMPLETED.		
1 2 3 6	WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY	COUNTY A FUIC ON A		
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	PLEASE TYPE	NUMBER 4314752-A		
ST/CO USE ONLY DATE WELL COMPL	ETED Depth of Well	OV. FROM "PERMIT TO DRILL WELL"		
MM DD YY MM2 DD C	12 22 305°26	SRV 1/3/03 HO-94 -3591		
8 13 15	20 (TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 37		
OWNER_ GST TRYST + 515	TER TRUST			
STREET OR RFD	WILLYS WHAT TOWN_	GLENWOUTS		
SUBDIVISION WATTERFORD FARM				
WELL LOG	GROUTING RECORD			
Not required for driven wells STATE THE KIND OF FORMATIONS PENETRATED, THEIR	(Circle Appropriate Box) 44 44	PUMPING TEST		
COLOR, DEPTH, THICKNESS AND IF WATER BEARING	CEMENT	HOURS PUMPED (nearest hour)		
DESCRIPTION (Use FEET check if water additional sheets if needed) FROM TO bearing	45 46 0 8 45 46			
	NO. OF BAGS 4020 NO. OF POUNDS 7880	PUMPING RATE (gal. per min.)		
Burnischala 66	GALLONS OF WATER DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE Ducket		
Crown Share C	from ft. to 63 ft.			
C C .: T 66 305V	(enter 0 if from surface)	WATER LEVEL (distance from land surface)		
Brown Shale 0 66 Gray Granite 66 305 v	casing CASING RECORD	BEFORE PUMPING 47/ ft.		
i the second is	types ST CO	WHEN DUMPING 171 4		
i i	appropriate STEEL CONCRETE	WHEN PUMPING 22 25 ft.		
	below PL OT TURNER	TYPE OF PUMP USED (for test)		
the second se	MAIN Nominal diameter Total depth	A air P piston T turbine		
	CASING top (main) casing of main casing	C centrifugal R rotary O (describe		
	TYPE (nearest inch)! (nearest foot)	C centrifugal R rotary O (describe below)		
	<u>60 61</u> <u>63 64</u> <u>66</u> <u>70</u>	J jet S submersible		
	E OTHER CASING (if used)	27 27		
	A diameter depth (feet) C inch from to			
		PUMP INSTALLED DRILLER INSTALLED PUMP YES NO		
	ŝ	(CIRCLE) (YES or NO)		
		IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.		
	screen type SCREEN RECORD	TYPE OF PUMP INSTALLED		
	or open hole ST BB HO	PLACE (A,C,J,P,R,S,T,O) 29 IN BOX 29.		
	insert STEEL BRASS OPEN	CAPACITY:		
	code DIL OIT	GALLONS PER MINUTE (to nearest gallon) 31 35		
	below PLASTIC OTHER	PUMP HORSE POWER		
	C 2 DEPTH (nearest ft.)	37 41		
NUMBER OF UNSUCCESSFUL WELLS:		PUMP COLUMN LENGTH (nearest ft.)		
yes no	$E = \frac{1}{8} \frac{40}{9} \frac{68}{11} \frac{305}{17} \frac{305}{17}$	43 47 CASING HEIGHT (circle appropriate box		
WELL HYDROFRACTURED	A 9 11 15 17 21	and enter casing height)		
CIRCLE APPROPRIATE LETTER	H <sup>2</sup> 23 24 26 30 32 36	49 LAND SURFACE		
A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED	S C 3	_ below 2 (nearest) foot)		
E ELECTRIC LOG OBTAINED	R 38 39 41 45 47 51 E	49 50 51		
P TEST WELL CONVERTED TO PRODUCTION WELL	E SLOT SIZE 1 2 3	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS		
1 HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND	DIAMETER (NEAREST	BUILDING, SEPTIC TANKS, AND /OR		
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	OF SCREEN INCH)	LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES		
KNOWLEDGE.	from to	MEASUREMENTS TO WELL		
DRILLERS LIG NO. 1 M SD 24 1	GRAVEL PACK			
Joseph & Marine	IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 68	T25' Con will		
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)	MDE USE ONLY	25. 000		
LIC. NO.1 D 1	(NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q			
CITE CUDEDV/ICOD /size of driller or investment	70 72 74 75 76			
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)	TELESCOPE LOG 74 75 76 CASING INDICATOR OTHER DATA			
		And the second sec		

STATE PERMIT NUMBER STATE OF MARYLAND SFOUENCE NO APPLICATION FOR PERMIT TO DRILL WELL (MDE USE ONLY) 70 fill in this form completely please type 517434 LOCATION OF WELL В 3 Date Received (APA) 100 OWNER INFORMATION dd100 COUNTY 8 DD 8 SUBDIVISION 23 First Name Owner Last Name 15 SECTION L 016 46 Y Street or RFD 3 36 1000 0 52 NEAREST TOWN Zip 76 State 70 Town 57 M MILES FROM TOWN (enter 0 if in town) DRILLER INFORMATION 76 77 78 SD024 M В 4 Driller's Name 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX) 30 NEAR WHAT ROAD NORTH Firm Name ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) E 5 W W 32 E Address 3-37 SOUTH 34 E w TOWN DISTANCE FROM ROAD Signature 8 WELL INFORMATION ENTER FT OR MI 39 38 B 2 APPROX. PUMPING RATE s<sub>w</sub> 2 12 BLK: dy 8 (GAL. PER MIN.) PARCEL S TAX MAP: 0 AVERAGE DAILY QUANTITY NEEDED 20 NOT TO BE FILLED IN BY DRILLER (GAL. PER DAY) USE FOR WATER (CIRCLE APPROPRIATE BOX) HEALTH DEPARTMENT APPROVAL DOMESTIC POTABLE SUPPLY & RESIDENTIAL D COUNTY NO. IBRIGATION COUNTY NAM FARMING (LIVESTOCK WATERING & AGRICULTURAL STATE SIGNATURE INSERT S -F 41 IRRIGATION INDUSTRIAL, COMMERICIAL, DEWATERING DATE ISSUED 03 22 1 Illa EXP. DATE PUBLIC WATER SUPPLY WELL CO SIGNATURE P 48 43 MM DD 80 EAST TEST, OBSERVATION, MONITORING 520 NORTH 000 GRID T 000 GRID 57 50 GEO-THERMAL G SHOW MAJOR FEATURES OF BOX & LOCATE WELL 24 28 FEET WITH AN X APPROXIMATE DEPTH OF WELL SOURCES OF DRILLING WATER NEAREST INCH 1. Well APPROXIMATE DIAMETER OF WELL 2. METHOD OF DRILLING (circle one) 3 Jetted & DRIVEN JETTED BORED (or Augered) WRITE THE BOX NUMBER ROTARY (Hydraulic Rotary) AIR-ROTary AIR-PERcussion FROM THE MAP HERE DRive-POINT **REVerse-ROTary** 3 CABLE other F 000 REPLACEMENT OR DEEPENED WELLS 000 (CIRCLE APPROPRIATE BOX) N THIS WELL WILL NOT REPLACE AN EXISTING WELL N DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN THIS WELL WILL REPLACE A WELL THAT WILL BE RELATION TO NEARBY TOWNS AND ROADS AND GIVE Y DISTANCE FROM WELL TO NEAREST ROAD JUNCTION 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 a S 39 THIS WELL WILL DEEPEN AN EXISTING WELL 10 81 D PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED N Koad C 52 (IF AVAILABLE) 41 Alenwood Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER PERMIT NO æ Well SPECIAL CONDITIONS LD USE SEPARATE SHEET IF NEEDED

ageof ate_ <u>_12-24-</u>		FIELD DATA SH		1/3/03
Depth of Depth of Static Wigh rate	numping reset	Dint (M.P.) above gro L.) below M.P.		
Time pum Total tii	p started <u>6:4</u> me <u>30 m,10</u> to pump test data -	reach pumping water observations to be	Pumping rate 2 level 17/ ft. recorded every 15 minu	
TIME (in 15 minute in-	WATER LEVEL below M.P.	PUMPING RATE time to fill 5/1	FLOW METER READING (if used)	(gallons per minute)
tervals		gallon bucket 3 Aug		20919
7:00	101	4		15
7:15	171	6	and the second	- 10
7:30	171		Children and Children and Children	10
7:45	171	6	The Contraction of the second second second	10
8:00	171	6		10
8.15		6	A Cartan Contract of the Contract of the	10
8:30	170	6		10
8:45	170	4		10
9:00	170	6	the trace of gradient and the second second	10
9:15 9:30	170	6	The state of the state	10
9:45	170	6		10
10:00	170	1 Bart 6 Million	a second the second second second	10
10:15	170	6		10
10-0		a water and the second		
	a la sua la sua sua	and the second of the second second	and the second	and the second sec
		The Contract of the State of the		
	a superior and the second			at a second a star
			and the providence of the second s	
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3



## 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:		
		T : I W. II Down Testellor
(Must circle one) Licensed Plumber	Licensed Well Driller	Licensed Well Pump Installer
License # and name of individual respon		License#
Name (Print):	he actual installation. App	rentices must be under the supervision of a
*A licensed individual must perform t	er, nump installer or well d	riller. Licenses may be subjected to field
Inligenced individuals m	av he reported to the appro	priate licensing agency.
Name of Property Owner: Subdivision:	Teleph	10ne #:
Subdivision: Jaterford F	arms Lot #: a	29 Well Tag #: HO - <u>94 - 3591</u>
Site Address: 15917 Willis	Way	
	/	W. U. Constant Electric Conduit
Submersible Pump Data	Pitless Adapter	Well Cap and Electric Conduit
Make:	Make:	Two piece watertight cap: Screened, vented well cap: Cap secured to casing: Conduit min 18" B G
Model #: ODM	Model#:(26" min)	Can secured to casing:
Pump Capacity GPM	Deptn: (50 mm)	Conduit min 18" B G :
Well Yield: GPM Depth of well encountered at time of pur	NSF/WSC approved	Conduit secured to well cap:
If pump capacity exceeds well yield, a lo	mp instantation(leet)	nired by NSPC 1990 Section 17.8.4
If pump capacity exceeds well yield, a for Torque arrestors, Cable guards, or other	acceptable method used- Mu	ist circle one
Safety rope, if used, attached to brass	rope adapter or other accer	otable method inside of well casing
Safety rope, it used, attached to brass	Tope adapter of other in	
Piping to house	<b>House Connection</b>	
Type:		ed soil at wall penetration:
PSI: (160 psi min)	Approximate length of s	leeve:
Depth of supply line:(36" min)	Sleeve caulked and seale	ed properly:
	the first from the a	antie tenk, numn chamber, sewage nining,
The water supply line is required to b	e at least ten feet from the s	eptic tank, pump chamber, sewage piping, <u>nnot</u> be accomplished, contact this office for
distribution box, drainfields, and sew	age reserve area. If this <u>ca</u>	inter de accomptioneu, contact and
approval prior to installation.		
Signature of company representative res	ponsible for installation	date
For Health Depa	artment Use Only – Not to b	e completed by Installer
	41	<u>II Db</u> Inspector ast 36" below grade
Date Insp. Requested:	Date Insp. Approved:	11/00 Inspector
Inspection Data: Pitless adapter watert	ight & water supply line at lea	ast 36" below grade
Two piece cap install	ed and attached to casing secu	abed to can properly
Elec. conduit extends	at least 18" below grade/atta	
Safety rope not seen o	outside of well cap/casing hed properly and casing 8" ab	pove finished grade
Correct well lag allac	eved adequately at house con	nection
A dequate grout obset	ved below pitless adapter	Casing Extended - No
Adequate grout obser		
		Grout Seen Down to
		7' Below Grade-Left Not
		Need to See Grout

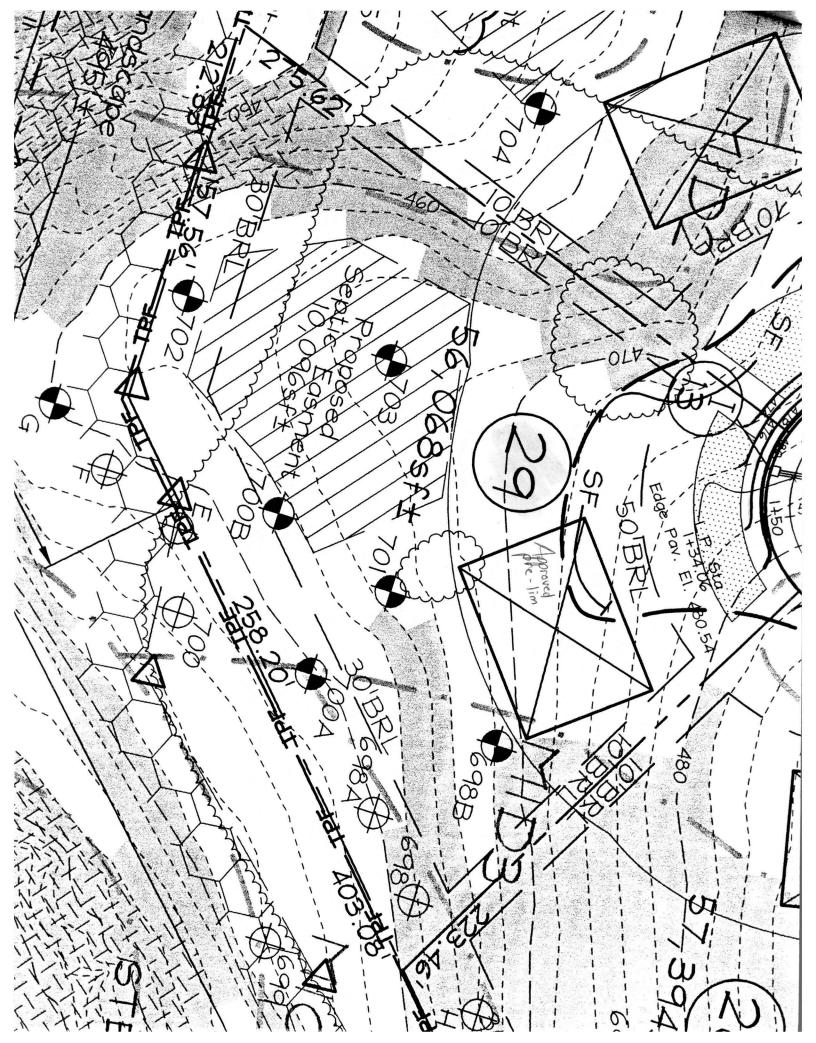
### HOWARD COUNTY HEALTH DEPARTMENT BUREAU OF ENVIRONMENTAL HEALTH WATER AND SEWERAGE PROGRAM TEL: (410)313-2640 FAX: (410)313-2648

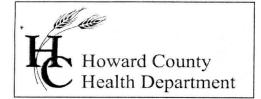
# Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

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.

Comment	Approval,		
Company N	ame: Fogles well Drilling Telephone / 100 200		
Addr	ess: 580 obrecht RD Telephone #: 410-795-5670		
	Siverille		
	Sylesville NO ZITEY		
(Must circle			
T image of the	d tame of individual Licensed Well Driller Licensed Well Pump Installer		
License # an	d name of individual responsible for the field installation:		
Name (Print)	Allen Compton		
TA MECHOCU			
supervision (	License# <u>MSD 009</u> of a licensed journeyman or master plumber, aump installation.		
subjected to	of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be field verification.		
NU DICIEU IU	ficial vertication.		
Name of Prop	perty Owner: Toll Brothers Telephone #:		
Site Address	15917 Willis Way		
	15917 Willis Way Lot #: 29 Well Tag #: HO -94-3591		
Submersible	Pump Data Pitless Adapter Well Can and Floater Condition		
Make: Gou			
Model #: 9<	COTUDE Two piece watertight can: 1485		
Pump Capacit	A NOTATION AND AND AND AND AND AND AND AND AND AN		
Well Yield:	Con secured to make a secured to secure		
Depth of well			
Te			
n pump capac	ity exceeds well yield, a low water cut off switch is Conduit secured to well cap: <u>UCS</u>		
Torque arresto	IS OF Cable mouth and the off our switch is required by NSPC 1990 Section 17.8.4		
Safety rope, if	used, attached to inside of well casing with eye bolt <u>NA</u>		
	, attached to inside of well casing with eye bolt NIA		
Piping to hous			
Type: 1 '1 Ala	House Connection		
Tybe 1.130	CKPIGSIC House Connection PVC stored to up it and the interview		
PSI: 160 (160	psi min) Approximate length of closest		
Depth of supply			
	y life: 42(36" min) Siceve caulked and sealed properly: UPS		
The water win	ply line is required to be at least ten fect from the septic tank, pump chamber, sewage piping, u, drainfields, and sewage reserve area. If this cannot be accomplished energy the property of the second seven area.		
distribution b	ply line is required to be at least ten feet from the sentie tents much		
assering bo	it, drainfields, and sewage reserve area. If this count tank, pump chamber, sewage piping,		
approval prior	ity installation.		
-un	lin com of		
Signature of cor	npany representative responsible for installation date		
	date date		
	For Health Department Use Only Not to be send to be		
	For Health Department Use Only - Not to be completed by Installer		
Date Insp. Requi	ected		
Inspection Data:	Pitless adapter and units Date Insp. Approved:		
	and weather diff. Wards company line as here to day to		
	Two piece cap installed and attached to casing securely		
	Safety rope installed inside of well casing		
	Contect well tag areabad on well 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		
UD OLE (D			

HD-215(Rev. 8/00)





7178 Columbia Gateway Drive, Columbia Maryland 21046 (410) 313-1771 Fax (410) 313-2648 TDD (410) 313-2323 Toll Free 1-866-313-6300 website: www.hchealth.org

#### Pennv E. Borenstein. M.D., M.P.H., Health Officer

April 12, 2006

Toll MD II, LP 3130 Lorenzo Lane Woodbine, MD 21797

#### SENT VIA FASCIMILE 410-489-6293

RE: Waterford Farms, Lot 29 15917 Willis Way Woodbine, MD 21747 BP #: B00155726 Well Permit # HO-94-3591

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 12/22/2005. Final approval of the well line connection to the dwelling was approved on 04/11/2006.

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.

### 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-94-3591. 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:03/Date of Well Completion:12/

03/20/2006 12/24/2002

oproving Autho Stuart Øster, Sanitarian.

Well & Septic Program

cc: Building Inspector's Office Community Health Services File

# **REPORT OF ANALYSIS**

Laboratorv ID #: Reference: Location: Date/ Time Collected Date/Time Rec'd: Chlorine ppm: Collected Bv:	58603 Toll Brothers 15917 Willis Woodbine, M : 3/30/2006 3/30/2006 Free: ND V.M. Fadoul	Way	ND	Account #: Company: Requested By: Source: Site: Treatment: pH: Well #:	1930 Fogle's Well D Dave Fogle Well Water Kitchen Sink T None 6.2 HO-94-3591	
PARAMETERS		RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYS
Bacteria. Coliform, Total,	MPN	<1.0	MPN/ 100 m	l <1.0	SM18 9223 B.	3/31/2006 / 0900 / BCD
Bacteria, E. coli, MPN		<1.0	MPN/ 100 m	1 <1.0	SM18 9223 B.	3/31/2006 / 0900 / BCD
Nitrate		<1.0	mg/L	10	601	3/31/2006 / 1500 / BCD
Turbidity		6.28	NTU	<10	SM18 2130B	3/30/2006 / 1455 / BCD
Sand		NS	mg/L	5	Visual/Gravimetric	3/30/2006 / 1455 / BCD

#### 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 in lab

Reason for Test : Use & Occupancy Building Permit # : B00155726

#### Date Reported: <u>3/31/2006</u>

MD State Certification # 133

## G. EDGAR HARR SONS' CORP. 12047 FALLS ROAD COCKEYSVILLE, MARYLAND 21030

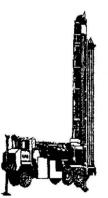
Howard County Health Dept 7178 Columbia Gateway Drive Columbia, MD 21046 Attn: Gage Creighton

April 10, 2006

Mr. Creighton,

This letter is a follow up to the letter I sent you in October of last year concerning well extensions at Waterford Farm. My previous letter only included lot 30, but we also extended the casings on lots 29 & 32. Both steel casings were extended 10 to 15 feet. A steel coupling was used and welded into place. The work was performed by Maurice Dixon, III (MSD193). If you have any questions, please give me a call.

Michael Isom



PHONE: 410-252-4588 FAX: 410-560-0784 EMAIL-geharr@crols.com

Hpr 11 2006 16:33 P.01

Fax:4105600784

E EDEUK HUGK SONS

# FILE INQUIRY NOTES

**RESULTS OF REVIEW FOR FILE** DATE tooles 410-984-15 56 26,29 2 3 to ..... hit gues,7 Larc SAIC his cou on ex 443-506 101 25 700 10 Tin Sitne 100 Re Thom Chi one ting abo hor 5 5. 1505 neu 9440 dia origina la 1/ hapo 746115 1 Le a 6 Lo p per C Co h