c 1 2964	(MDE USE		STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
THIS NUMBER IS TO BE PUIN COLS. 3-6 ON ALL CARD	OS)		FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY NUMBER A 520 414
ST/CO USE ONLY DATE Received MM DD YY	DATE WELL	00 1	22 11/6 26	FROM "PERMIT NO. DRILL WELL"
8 13	15		(TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 3
OWNERSTREET OR RFD/_	last name thos	n U	ay first name TOWN_	Folloott City
SUBDIVISIONWELL	100	P	GROUTING RECORD YES NO	LOT 69
Not required for			WELL HAS BEEN GROUTED (Circle Appropriate Box)	C 3 1 2 PUMPING TEST
STATE THE KIND OF FORMAT COLOR, DEPTH, THICKNESS			TYPE OF GROUTING MATERIAL (Circle one)	HOURS PUMPED (nearest hour)
DESCRIPTION (Use additional sheets if needed)	FEET FROM TO	check if water bearing	NO. OF BAGS NO. OF POUNDS 45 46 28	PUMPING RATE (gal. per min.)
Sand Stone	0 36		GALLONS OF WATER	METHOD USED TO
Gray Granite	36 245	V	from 48 TOP 52 ft. to 3 bottom 58 ft.	WATER LEVEL (distance from land surface)
			(enter 0 if from surface)	BEFORE PUMPING 44 ft.
			types insert ST CO	17 48 20
			appropriate code below P L O T	TYPE OF PUMP USED (for test)
		1.4	PLASTIC OTHER MAIN Nominal diameter Total depth	A air P piston T turbine
			CASING top (main) casing of main casing TYPE (nearest inch)! (nearest foot)	C centrifugal R rotary O other (descril
			ST 6 40 60 61 63 64 66 70	27 27 below)
			E OTHER CASING (if used) A diameter depth (feet)	J jet S submersible
			H inch from to	PUMP INSTALLED
			A S I N	DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES or NO)
			Ğ — CONTRACTOR OF THE CONTRACT	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
		. 75	screen type or open hole ST BR HO	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29.
			insert appropriate code BRASS BRONZE HOLE	CAPACITY: GALLONS PER MINUTE
			below PLASTIC OTHER	(to nearest gallon) 31
		0	C 2 DEPTH (nearest ft.)	PUMP HORSE POWER PUMP COLUMN LENGTH
NUMBER OF UNSUCCESSF	yes	no	Ho 38 245	(nearest ft.)
WELL HYDROFRACTURED	Y	N)	A 8 9 11 15 17 21	above and enter casing height)
A WELL WAS ABANDON WHEN THIS WELL WAS	IED AND SEALED		H 23 24 26 30 32 36 S	LAND SURFACE (neares
E ELECTRIC LOG OBTAIN	ED		C 3 R 38 39 41 45 47 51 E	49 / 50 51 1001)
HEREBY CERTIFY THAT THIS WE	LL HAS BEEN CONSTR	UCTED IN	SLOT SIZE 1 2 3	SHOW PERMANENT STRUCTURE SUCH AS
ACCORDANCE WITH COMAR 26.04. IN CONFORMANCE WITH ALL CON CAPTIONED PERMIT, AND THAT HEREIN IS ACCURATE AND CON KNOWLEDGE.	IDITIONS STATED IN T	HE ABOVE RESENTED	DIAMETER	BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)
DRILLERS LIC. NO. 1	MSD02	41	GRAVEL PACK	
DRILLERS SIGNATURE	2 May	20	WAS FLOWING WELL INSERT F IN BOX 68 68	July 1
(MUST MATCH SIGNATURE O			MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	w syo
			70 72	150 €
SITE SUPERVISOR (sign. o responsible for sitework if dif			TELESCOPE LOG 74 75 76 CASING INDICATOR OTHER DATA	Tw huthorn
DENV-CR00			COUNTY	W

B 1 9879 SEQUENCE NO. (MDE USE ONLY)		OF MARYLAND	STATE PE	RMIT NUMBER
1 2 3 6	25 - 5 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	R PERMIT TO DRILL WELL please type	10 - 95	5-0714
Data Reseived (ARA)	525693		fill in this for LOCATION OF WELL	orm completely
Date Received (APA) OWNER INFO	RMATION	B 3 Howard	LOCATION OF WELL	
8 MM DD YY 13	0	8 COUNTY	, 01	21
15 Last Name Owner	First Name 34	23 SUBDIVISION	d Phase	42
36 Street or RFD	uite 800	SECTION 44 46	LOT 69 50	
Bethesda nd 57 Town 70 State	72 Zip 76	52 NEAREST TOWN	City	71
DRILLER INFORMATION		MILES FROM TOWN (enter		M 1
Driller's Name	M D 76 License No. 81	B 4	73	76 77 78
Film Name	Ireling)	1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	11 NEAR W	HAT ROAD 30
SS12 Ridge Rd Mt. aug	y Md 2171	N NE NE	ON WHICH SIDE (
Signature Joseph & Mayre	/ - 30-07 Date	TOWN E	34 🗶	WEST S EAST
B 2 WELL INFORMATION 1 2 APPROX. PUMPING RATE -	5-			E FROM ROAD NTER FT OR MI 38 39
(GAL. PER MIN.) AVERAGE DAILY QUANTITY NEEDED	8 500	S _W S S S S S S S S S S S S S S S S S S S		: 3 PARCEL 20
(GAL. PER DAY) 14 USE FOR WATER (CIRCLE A	PPROPRIATE BOX)		BE FILLED IN BY	
DOMESTIC POTABLE SUPPLY & RESIDE	NTIAL	HEALTH	DEPARTMENT AP	PROVAL
F RAMING (LIVESTOCK WATERING & AGI	RICULTURAL	COUNTY NAME	131 AT	COUNTY NO.
IRRIGATION	NO.	STATE SIGNATURE		INSERT S -
INDOGNINAL, COMMENTOIAL, BEVIALEN	ING	DATE ISSUED	11. 11.	120- 141
P PUBLIC WATER SUPPLY WELL		43 MM DD YY 48	CO SIGNATURE	EXP. DATE
T TEST, OBSERVATION, MONITORING G GEO-THERMAL			00 GRID 68	265 000
G GEO-MENWAL		50	55 57	63
APPROXIMATE DEPTH OF WELL L 30	O J FEET	SHOW MAJOR FEATURES BOX & LOCATE WELL ' WITH AN X	1/05/	67.0
APPROXIMATE DIAMETER OF WELL	NEAF INCH	weel	VATER RAM	um Sampla
METHOD OF DRILLING	(circle one)	2. 3.	Colle	ited During
BORED (or Augered) 30 AUD BOX	Jetted & DRIVEN		98	2100
37 AIR-ROTary AIR-PERcussion REVerse-ROTary	ROTARY (Hydraulic Rotary DRive-POIN	Willie We box Howel	gie !	la deste
other	<u> </u>	- PROM THE MAP HERE	0	(BB)
REPLACEMENT OR DEEP. (CIRCLE APPROPRIAT		E 82\$ 6	000	
N THIS WELL WILL NOT REPLACE AN EXIST		N 516 3	5 000	
THIS WELL WILL REPLACE A WELL THAT	WILL BE	DRAW A SKETCH BELOW	SHOWING LOCATION O	F WELL IN
ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL THAT	WILL BE USED	RELATION TO NEARBY TO DISTANCE FROM WELL TO	DWNS AND ROADS AND O NEAREST ROAD JUNC	TION EAL.
AS A STANDBY-CONTACT LOCAL APPROV	VING AUTHORITY		3	except lity
PERMIT NUMBER OF WELL TO BE REPLACED O			2	
(IF AVAILABLE) 41	52	N avell	K	open Run Rd
Not to be filled in by driller (MDE OR (WY:TI	The state of the s	
APPROP. PERMIT NUMBER #2 20	24 GOO7	* Omino	may 3	
PERMIT No. 70 71	72 73 74 75 76 77 78 7	9	3	
SPECIAL CONDITIONS NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED	DRADI	IM SAMPLE		●

_						
₹	2	1/	1	0	W	

FIELD DATA SHEET HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 95- 07/4	
Location of property (road) whithour	Way
Subdivision Reverwood Phase 2	Lot 69 Block Plat Sec.
Hell Driller peepl mayne	Owner Winchester Homes Inc
Depth of well 245' Distance of measuring point (M.P.) about Static water level (S.W.L.) below M.P.	
I. High rate pumping reservoir drawdown	
Time pump started 10.40 am Total time to reach pumping	Pumping rate 20 gran water level 48 ft. below M.P.

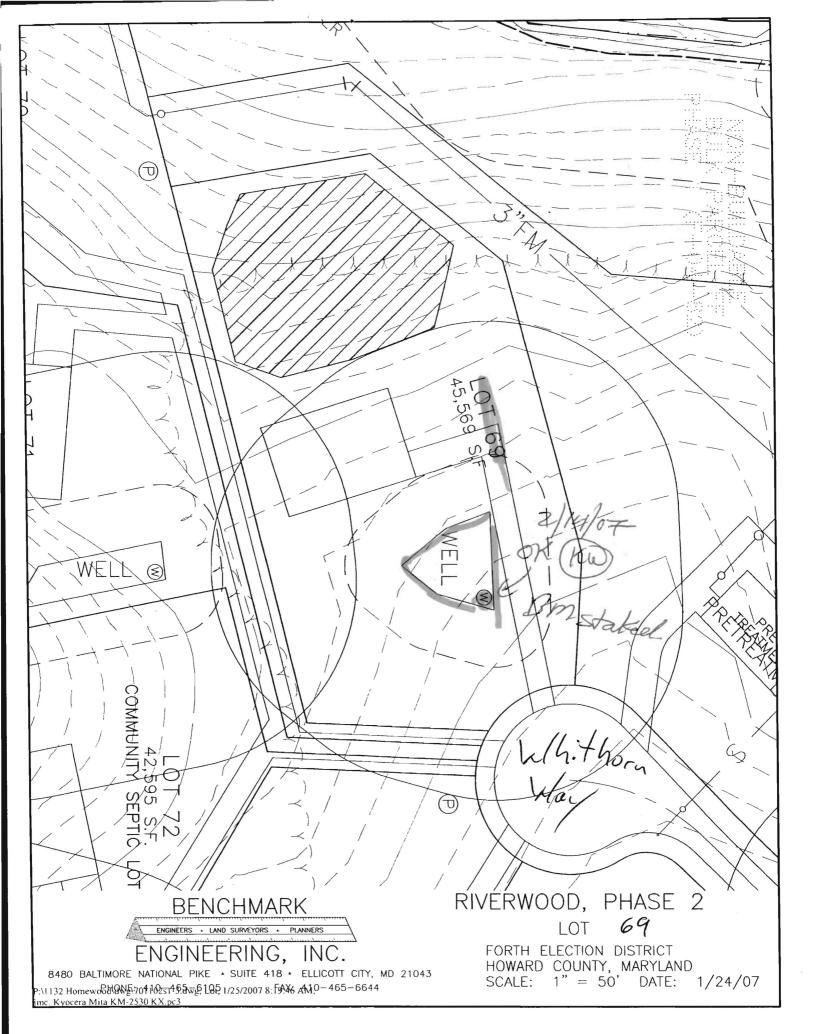
II. Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute in- tervals	WATER LEVEL below M.P.	PUMPING RATE time to fill 3/ gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
10:40 cm.	44'		N/A	
10:55	48	3 pse.		20 april.
11:10	48	3		20 0
11:25	48	3		20
11:40	48	3		20
11:55	48	3		20
12:10	48	3		20
12:25	48	3		20
12:40	48	3		20
12:55	48	3		20
1:10	48	3		20
1:25	48	3		20
1:40	48	3		20

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 Pining

inspection. No work is to be covered until appr with the National Standard Plumbing Code (sesting an inspection prior to 9 am on the day of the desired roved by the Health Department. All installations must comply NSPC, as amended locally) and COMAR 26.04.04 (MD Well mplete form is required prior to Use and Occupancy approval.
Address: Po Boy 138 Ash for, N.D. 2086	
(Must circle one) Licensed Plumber Licens License # and name of individual responsible for t Name (Print): DAVD (VCKC	ed Well Driller Licensed Well Pump Installer License# P1 - 0.145
	installation. Apprentices must be under the direct
	plumber, pump installer or well driller. Licenses may be
subjected to field verification.	hamper's hamb consenies as were as commer and ac
Name of Property Owner: Wesches TER	Telephone # 30/ - 254 - /333
Subdivision: RIVERWARD	Telephone #: 30/ - 254 - 1333 Lot #: 69 Well Tag #: HO - 95 - 07/4
	AY
	21042
Submersible Pump Data Pitless	danter Well Can and Electric Conduit
Make: Grund tos Make:	Two piece watertight cap:
Model #: /5SQE 03 - /7 Model #: Pump Capacity /5 GPM Depth: -	Screened, vented well cap:
Well Yield: 20 GPM NSF app	(36" min) Cap secured to casing:
Depth of well encountered at time of pump installa	tion: /80 (feet) Conduit secured to well cap:
	ut off switch is required by NSPC 1990 Section 17.8.4
Torque arrestors or Cable guards are required - Mu	ist circle one
Safety rope, if used, attached to inside of well ca	sing with eye bolt ///
	e Connection
	ximate length of sleeve: 5'
Depth of supply line; 4/(36" min) Sleeve	caulked and sealed properly: 1/6-5
before a supply line, 5 (30) lillin)	, caused and scaled property. 7 -
The water supply line is required to be at least t	en feet from the septic tank, pump chamber, sewage piping,
	area. If this cannot be accomplished, contact this office for
approval phior to installation.	· ·
\sim (11-7-11
Signature of company representative responsible for	r installation date
For Health Department Us	Only - Not to be completed by Installer
Date Insp. Requested:	Date Insp. Approved: 9/13/11 (Ku)
inspection Data: Pitless adapter and water supply	
Two piece cap installed and attac	
	below grade/attached to cap properly
Safety rope installed inside of we	and ensing 8" shows finished grade
Water supply line sieeved adequa	
Adequate grout observed below p	





7178 Columbia Gateway Drive, Columbia, MD 21046 (410) 313-2640 Fax (410) 313-2648 Toll Free 1-866-313-6300 TDD (410) 313-2323 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:

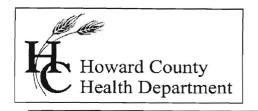
Well Site Location: Riverwood Phase # 43-77 Subdivision/Property Name Lot#	CASTREBAGE Rd, HUNTERS VIEW ROAD ROAD & Whithorn Wa
	y employing professional land surveyors) and does not require a site inspection.
	perty owner will call the Health Department ne field to verify the proposed well site

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

Contact is:
Exstendings
301-829-1440

2006 DE 18 PM 2:32



Bureau of Environmental Health 7178 Gateway Drive (410) 313-2640 TDD (410) 313-2323

Columbia, MD 21046 Fax (410) 313-2648 Toll Free 1-866-313-6300

website: www.hchealth.org

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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date - May 21, 2011

November 22, 2011

Winchester Homes 6905 Rockledge Drive, Suite 800 Bethesda, Maryland, 20817

RE:

Riverwood, Lot# 69

11240 Withorn Way

Building Permit: B: B11002028 Well Permit: HO-95-0714

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 11/1/11. Final approval of the well line connection to the dwelling was granted on 9/13/11. The well construction was completed on 7/25/05. Water samples were collected on 11/21/11.

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.

Gross Alpha and Beta samples were also collected on 7/25/07. Results showed a Gross Alpha level of 12.0 \pm 2.0 pCi/L and Gross Beta level of 9.0 \pm 2.0 pCi/L. The Gross Alpha was below the maximum contaminant level (MCL) of 15 pCi/L and the Gross Beta was below the MCL of 50pCi/L. At the time of testing and with respect to these parameters, the well water is safe for all uses.

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-95-0714. 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 certified water quality 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,

Dana Bernard, REHS/RS Environmental Sanitarian Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits

Community Hygiene Program

File

COUNTAIN VALLEY ANALYTICAL LABORATORY, INC 1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

3123

REPORT OF ANALYSIS

Laboratory ID #:

82296

Reference:

Riverwood Lot 69

Location:

11240 Whithorn Way

Ellicott City, MD 21042

Date/ Time Collected: 11/21/2011 Date/Time Rec'd:

11/21/2011 Free: ND

1156 1317

Total: ND

Account #:

Company:

National Water Servicing Dave Rycke

Requested By:

Well Water

Source: Site:

Pressure Tank

Treatment:

Sediment Filter**

pH:

6.2

J.Yeager 6176JY Well #: HO-95-0714

MPN/ 100 ml

PARAMETERS Bacteria, Coliform, Total, MPN

Bacteria, E. coli, MPN

Chlorine ppm:

Collected By:

<1.0

<1.0

RESULTS UNITS REFERENCE METHOD DATE/TIME/ANALYST MPN/ 100 ml

<1.0 <1.0 SM18 9223 SM18 9223 11/22/2011 / 0845 / KME 11/22/2011 / 0845 / KME

NOTES

- 1 **Sample collected prior to sediment filter
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- ND:None Detected
- 5 Visual well check: Sealed, vented cap
- pH and Chlorine level tested on site

Reason for Test:

Use & Occupancy

Building Permit #:

11002028

THE REPORT OF THE PROPERTY OF

1413 Old Taneytown Rd. Westminster NtD (410) 848-1014 (410) 876-4554 Fax (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #:

82203

Account #:

3123

Reference:

Riverwood Lot 69

Company:

National Water Servicing

Location:

11240 Whithorn Way

Requested By:

TALIONAL WARDI BEXTYON

Location:

Ellicott City, MD 21042

Source:

Dave Rycke Well Water

Date/ Time Collected: 11/15/2011

11/15/2011

Site:

Pressure Tank

Date/Time Rec'd:

1145 1248

6176JY

Treatment:

Sediment Filter**

Chlorine ppm:

Collected By:

Free: ND J.Yeager Total: ND

pH: Well #:

HO-95-0714

5.8

PARAMINIARS	and the same of	ioruis kie	PERENCE.	kiimiiob X eeb	
Bacteria, Coliform, Total, MPN	12.4	MPN/ 100 ml	<1.0	SM18 9223	11/16/2011 / 0900 / CCH
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1,0	SM18 9223	11/16/2011 / 0900 / CCH
Nitrate	2.99	mg/L	10	601	11/16/2011 / 1200 / CCH
Turbidity	1.10	NTU	<10	\$M18 2130B	11/16/2011 / 0900 / KME
Sand	NS	mg/L	5	Visual/Gravimetric	11/16/2011 / 0900 / kmc

Need test Backeria

NOTES

- 1 **Sample collected prior to sediment filter
- 2 mg/L = milligrams per liter (also, parts per million)
- 3 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 4 NS = None Seen (NS indicates less than 5 mg/L)
- 5 NTU = Nephelometric Turbidity Units
- 6 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 7 ND:None Detected
- 8 Visual well check: Sealed, vented cap
- 9 pH and Chlorine level tested on site

Reason for Test:

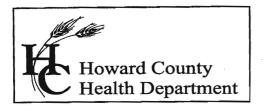
Use & Occupancy

Building Permit #:

11002028

Date Reported:

11/16/2011



Bureau of Environmental Health
7178 Columbia 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 L. Beilenson, M.D., M.P.H., Health Officer

August 30, 2007

Winchester of Howard County 6905 Rockledge Dr. Suite 800 Bethesda, MD 20817

> RE: Riverwood Subdivison, Lot# 69 Well Tag: HO-95-0714

To Whom It May Concern:

A sample was collected from a yield test July 25, 2007 and submitted to Department of Health and Mental Hygiene Laboratories to assess the possible presence of Gross Alpha and Gross Beta in the future well water supply. Gross Alpha and Gross Beta measure the total alpha and beta particle activity in a water supply. In turn, this can provide information regarding naturally occurring radiation (i.e., Radionuclides) that may exist in your area of development within the County.

Results from this screening revealed a Gross Alpha of 12.0 ± 2.0 picocuries/liter (pCi/L); while the Gross Beta level was 9.0 ± 2.0 pCi/L. The Gross Alpha result was below its maximum contaminant level (MCL) of 15 pCi/L, while the Gross Beta level was below its target value of 50 pCi/L (roughly equivalent to the annual dose rate of 4 millirems/year).

At the time of testing and with respect to these parameters, the future well water supply appears safe for all uses. No additional testing for these parameters will be required to secure the future Use & Occupancy. However, other standard (potability) testing will still be necessary.

A copy of the test results is enclosed for your information. Please call this office at 410-313-1773 if you have any further questions.

Sincerely.

Bert Nixon, Deputy Director Bureau of Environmental Health

cc: Eric Dougherty, MDE Water Mgmt., Groundwater Well & Septic File

Send	Report To:	DHMH - Labo Division of E	e of Maryland pratories Administration nvironmental Chemistry N LABORATORY		T			
201 W. Preston Street, Baltimore, Maryland 21201								
			Boy, Dr. P.H., Direct					
		LABORATORY	ANALYSIS RE	QUEST				
Samp	le Bottle No. A:	9507/4 No. B:	_ Field Blank Be	ottle No. A:	No. B:			
Plant	Site Name: River	wood-Lo	+69	County: How	iard			
Samp	le Source: White	chorn Way	Location:	HO-95-	0714			
Coun	ty: 🖊 🗗	Plant No.		(well no., lab sink, san	 			
CHE	CK (one per box)							
Drink Land Stream Other	m	Community Non-community Private Other	Source (raw water) Distribution (treated) MCL	Emergen Routine Recheck Special	cy			
Colle	- 1 1 -	ker	Telephone No:	1 1	-2643			
Date	Collected: 7 125	107	Time Collected		p.m.			
Nitri	Acid Preserved: Yes	⊠ No □	Iced: Yes	No 🖾				
Subm	nitters Code: 🔲 🗀	Federal Project:	Field Data:					
Rema	orks: Sample	Collected	During	Vield Tes	lorine			
\checkmark	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported			
V	Gross Alpha	4000	0251	12=2	7/30/07			
V	Gross Beta	4100		9=2				
	Radon-222 Bottle A	4004						
	Radon-222 Bottle B	4004						
	Field Blank A	4004						
	Field Blank B	4004						
	Tritium							
	Ra - 226	4020						
	Ra - 228	4030						
	Total Uranium	4006		·				
	9							
	,							
	Date Received: Supervisor:			·				
EODM D	EVISED 02/06 • Te	el. No.: (410) 767-553	7 • Fax. No.: (4	10) 333-5373				

PROGRAM COPY