

C 1 - 05917		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.	
1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)						COUNTY NUMBER (13)	
ST/CO USE ONLY DATE Received MM 04 DD 30 YY 13		DATE WELL COMPLETED MM 8 DD 16 YY 13		Depth of Well 125 (TO NEAREST FOOT)		PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-2469	
OWNER last name TOLL first name BROS.		WELL SITE ADDRESS 4702 Ashby Ct		TOWN ECLEICOTT CITY		SUBDIVISION HOMERWOOD CROSSING SECTION 79 LOT 79	

WELL LOG Not required for driven wells STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING			GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC NO. OF BAGS 16 NO. OF POUNDS 1504 GALLONS OF WATER 96 DEPTH OF GROUT SEAL (to nearest foot) from 0 TOP 52 ft. to 45 BOTTOM 58 ft. (enter 0 if from surface)			C 3 1 2 PUMPING TEST HOURS PUMPED (nearest hour) 03 PUMPING RATE (gal. per min.) 8.5 METHOD USED TO MEASURE PUMPING RATE 1 gal WATER LEVEL (distance from land surface) BEFORE PUMPING 16 ft. WHEN PUMPING 54 ft. TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary O other (describe below) J jet S submersible		
DESCRIPTION (Use additional sheets if needed)			FEET FROM TO			check if water bearing		
Light Brown Loamy			0 24					
Dark Brown			24 25			✓		
White			25 35			✓		
Large Gray Rock			35 125			✓		
Gray & White								
NUMBER OF UNSUCCESSFUL WELLS: 0			C 2 DEPTH (nearest ft.) 40 46 125					
WELL HYDROFRACTURED Y N			CIRCLING					
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			SCREEN RECORD screen type or open hole ST BR HO (insert appropriate code below) STEEL BRASS OPEN HOLE BRONZE PLASTIC OTHER			PUMP INSTALLED DRILLER INSTALLED PUMP YES NO 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) 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 - below 01 (nearest foot)		
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.			SLOT SIZE 1 2 3			LATITUDE 39.2419052 LONGITUDE 76.9076691 (DEFAULT COORD. WGS 84)		
DRILLERS LIC. NO. M SD 009 Allen Conley DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. D			DIA. OF SCREEN (NEAREST INCH) 56 60 from to			NOTES:		
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 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					

B 1 1 2 3 6 <u>09377</u>	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL <u>544471</u> please type	STATE PERMIT NUMBER <u>40-95-2469</u> <small>fill in this form completely</small>
Date Received (APA) <u>12 19 12</u> 8 MM DD YY 13 OWNER INFORMATION <u>Toll Brothers</u> 15 Last Name Owner First Name 34 <u>11423 Hunt Crossing Ct</u> 36 Street or RFD 55 <u>Ellicott City Md 21043</u> 57 Town 70 State 72 Zip 76		B 3 LOCATION OF WELL <u>Howard</u> 8 COUNTY 21 <u>Homewood Crossing</u> 23 SUBDIVISION 42 SECTION <u>44</u> 46 LOT <u>79</u> 50 <u>Ellicott City</u> 52 NEAREST TOWN 71	
DRILLER INFORMATION <u>Allen Compton</u> M S D <u>009</u> Driller's Name 76 License No. 81 <u>Fogles Well Drilling, LLC</u> Firm Name <u>P.O. Box 202 Woodbine md</u> Address <u>Allen Compton 12-6-12</u> Signature Date		B 4 SOURCES OF DRILLING WATER 1. _____ 2. _____ 3. _____ <u>4702 Ashby</u> 11 STREET ADDRESS 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH <input checked="" type="checkbox"/> WEST <input type="checkbox"/> EAST <input type="checkbox"/> SOUTH <input type="checkbox"/> 34 50 37 DISTANCE FROM ROAD ENTER FT OR MI 38 39 TAX MAP: <u>0029</u> BLK: <u>0009</u> PARCEL <u>0028</u>	
B 2 WELL INFORMATION 1 2 APPROX. PUMPING RATE <u>5</u> (GAL. PER MIN.) 8 12 AVERAGE DAILY QUANTITY NEEDED <u>500</u> (GAL. PER DAY) 14 20		USE FOR WATER (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="checkbox"/> PUBLIC WATER SUPPLY WELL <input type="checkbox"/> TEST, OBSERVATION, MONITORING <input type="checkbox"/> OPEN LOOP GEOTHERMAL <input type="checkbox"/> CLOSED LOOP GEOTHERMAL	
APPROXIMATE DEPTH OF WELL <u>300</u> FEET 24 28 APPROXIMATE DIAMETER OF WELL <u>6</u> INCH METHOD OF DRILLING (circle one) BORED (or Augered) JETTED Jetted & DRIVEN <input checked="" type="checkbox"/> AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary) <input type="checkbox"/> CABLE REVERSE-ROTARY DRIVE-POINT other _____		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL <u>Howard</u> <u>(13)</u> <u>A515042</u> COUNTY NAME COUNTY NO. STATE SIGNATURE _____ INSERT S → 41 DATE ISSUED <u>1/18/13</u> <u>1/18/14</u> 43 MM DD YY 48 CO SIGNATURE EXP. DATE	
REPLACEMENT OR DEEPEENED WELLS (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="checkbox"/> THIS WELL WILL DEEPEEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEENED (IF AVAILABLE) 41 _____ 52		PROPOSED LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL 	
Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER <u>402023G006</u> PERMIT No. <u>40-95-2469</u> 70 71 72 73 74 75 76 77 78 79		SPECIAL CONDITIONS <u>See attached memo</u>	

Well Permit No. HO - 95-2469
Location of property (road) Homewood Rd 4702 Ashby CT
Subdivision W Homewood Crossing Lot 79 Block Plat Sec.
Well Driller Fogles Owner Toll Bros

Depth of well 125'
Distance of measuring point (M.P.) above ground 2'
Static water level (S.W.L.) below M.P. 16'

Time pump started 12:45 Pumping rate 12
Total time 30 min to reach pumping water level 54 ft. below M.P.

[illegible]

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: Fogles Well Drilling LLC Telephone #: 410-795-8270
Address: PO Box 2021
Woodrow, 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): David C. Fogle License #: MSD226

*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 #: 410-489-2275
Subdivision: Benedict Farm / Patient Care Lot #: 79 Well Tag #: HO-45-2469
Site Address: 4702 Ashby Ct
Ellicott City, MD

<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>1536E07-180</u>	Model #: <u>N/A</u>	Screened, vented well cap: <u>YES</u>
Pump Capacity: <u>18</u> GPM	Depth: <u>36"</u> (36" min)	Cap secured to casing: <u>YES</u>
Well Yield: <u>4.5</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>125</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>200 (160 psi min)</u>	Length of sleeve (5" minimum from foundation): <u>6'</u>
Depth of supply line: <u>36"</u> (36" min)	Sleeve sealed properly: <u>YES</u>

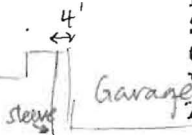
The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation: David Fogle date: 7/30/15

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

Date Insp. Requested: 8/3/15 Date Insp. Approved: 8/3/15 Inspector: SC
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 ✓

40' 2" PVC sleeve under driveway



B 1 <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">6141</div>	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">527287</div> please type	STATE PERMIT NUMBER <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">HO-95-1243</div> fill in this form completely
Date Received (APA) <div style="border: 1px solid black; padding: 2px;"> 8 MM DD YY 13 <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">Toll Brothers</div> <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">11423 Hunt Crossing Ct.</div> <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">Ellicott City, Md. 21042</div> </div>		B 3 LOCATION OF WELL <div style="border: 1px solid black; padding: 2px;"> 8 COUNTY <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">Howard</div> 23 SUBDIVISION <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">Homewood Crossing</div> SECTION <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">II</div> LOT <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">79</div> 52 NEAREST TOWN <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">Columbia</div> </div>	
OWNER INFORMATION <div style="border: 1px solid black; padding: 2px;"> 15 Last Name <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">Toll Brothers</div> 34 First Name 36 Street or RFD <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">11423 Hunt Crossing Ct.</div> 55 57 Town <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">Ellicott City</div> State <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">Md.</div> Zip <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">21042</div> </div>		B 4 1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX) 	
DRILLER INFORMATION <div style="border: 1px solid black; padding: 2px;"> Driller's Name <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">Allen Compton</div> M S D 009 Firm Name <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">Eagles Well Drilling</div> Address <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">580 Obrecht Rd</div> Signature <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">[Signature]</div> Date <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">7-17-07</div> </div>		11 NEAR WHAT ROAD <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">Ashby CT</div> ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) <div style="border: 1px solid black; padding: 2px; text-align: center;"> NORTH <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">W</div> <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">E</div> <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">S</div> <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">N</div> </div> 45 34 37 DISTANCE FROM ROAD ENTER FT OR MI <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">FT</div> TAX MAP: <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">29</div> BLK: <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">9</div> PARCEL <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">28</div>	
B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">5</div> AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">500</div>		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">Howard (13) A515042</div> COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT S → DATE ISSUED <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">8/23/2007</div> <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">Brian Baker</div> <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">8/23/2008</div> 43 MM DD YY 48 CO SIGNATURE EXP DATE NORTH GRID <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">513</div> 0 0 0 EAST GRID <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">826</div> 0 0 0 50 55 57 63	
USE FOR WATER (CIRCLE APPROPRIATE BOX) <div style="border: 1px solid black; padding: 2px;"> <input checked="" type="checkbox"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="checkbox"/> PUBLIC WATER SUPPLY WELL <input type="checkbox"/> TEST, OBSERVATION, MONITORING <input type="checkbox"/> GEO-THERMAL </div>		SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. 2. 3. WRITE THE BOX NUMBER FROM THE MAP HERE E <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">826</div> N <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">5103</div>	
APPROXIMATE DEPTH OF WELL <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">300</div> FEET APPROXIMATE DIAMETER OF WELL <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">6</div> INCH		DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION 	
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) <div style="border: 1px solid black; padding: 2px;"> <input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="checkbox"/> THIS WELL WILL DEEPEEN AN EXISTING WELL </div> 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 <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">H02003 G006</div> PERMIT No. <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">HO-95-1243</div>			
SPECIAL CONDITIONS NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET PROVIDED <div style="border: 1px solid black; padding: 2px; font-size: 24px; font-weight: bold;">Radium Sample Needed During Yield Test</div>			



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Maura Rossman, M.D., Health Officer

August 8, 2015

**Toll Brothers Inc.
14540 Edgewood Way
Glenelg, Maryland 21737**

**RE: Homewood Crossing Lot 79
Ashby Court
Well Tag: HO - 95 - 2469**

To Whom it May Concern:

A sample was collected during a yield test on August 16, 2013 and submitted to the Department of Health & 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. These naturally occurring radioactive nuclides have been demonstrated to be present in a certain type of geologic formation known as the Baltimore Gneiss which exists in your area of development within the County.

Results from this screening revealed a **Gross Alpha** of 5.5 ± 1.7 picocuries/liter (pCi/L), while the **Gross Beta** level was 9.3 ± 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 targeted 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 is within EPA regulatory standards. Additional testing **for these parameters** will not be required to secure the future Use & Occupancy. **Please note** that other standard testing parameters (bacteria, nitrate, turbidity and sand) will still be required to help secure Use & Occupancy.

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, Director
Bureau of Environmental Health

Enclosure
cc: Well & Septic property file

Send Report To:

Bob Nixon

Howard County Health Department
Bureau of Environmental Health
7173 Columbia Gateway Drive
Columbia, Maryland 21046

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
ENVIRONMENTAL METALS SECTION

201 W. Preston Street, Baltimore, Maryland 21201

Lab No. Date Received

Do not write above this line

LABORATORY ANALYSIS REQUEST

Please Print

Sample ID No: HOKW/Na 2469 Site Name: Homewood Crossing County: Howard

Sample Source: Ashby Ct. Ellicott City Lot 79 Collector: K. Wolf
Street Town or City Name

Date Collected: 08 / 16 / 2013 Time Collected: _____ a.m. 2 p.m. Phone #: 410-313-2645

Sample Preserved By: ☐ Field ☐ ESRL ☐ Central Lab

Preservative Used: ☒ HNO₃ _____

Sample Type: ☒ Drinking Water ☐ Landfill ☒ Source (Raw Water) ☐ Liquid
☐ Community ☐ Stream ☐ Distribution (Treated) ☐ Solid
☐ Non-Community ☐ Sediment ☐ Other _____
☒ Private

Specify Program: ☐ SDWA ☐ NPDES ☐ CWA ☐ RCRA ☐ Consumer Products ☒ Other _____

Type of Sample Preparation: ☐ Total Metals ☐ Total Metals TCLP ☐ Dissolved Metals
(field preparation required)

Remarks: Sample preserved w/ HNO₃. Taken during yidel test
to test for potential road salt contamination.

✓	Element	Results (ppm)	✓	Element	Results (ppm)
	Antimony (Sb)			Copper (Cu)	
	Arsenic (As)			Lead (Pb)	
	Barium (Ba)			Silver (Ag)	
	Beryllium (Be)			Zinc (Zn)	
	Cadmium (Cd)			Aluminum (Al)	
	Chromium (Cr)			Iron (Fe)	
	Mercury (Hg)			Manganese (Mn)	
	Nickel (Ni)			Calcium (Ca)	
	Selenium (Se)			Magnesium (Mg)	
✓	Sodium (Na)			Potassium (K)	
	Thallium (Tl)			Uranium (U)	

Lab Supervisor: _____

Date Reported: ____/____/____

Send Report To:

Bert Nixon

Howard County Health Department
Bureau of Environmental Health
7178 Columbia Gateway Drive
Columbia, Maryland 21046

State of Maryland
DHMH - Laboratories Administration

Division of Environmental Chemistry
RADIATION LABORATORY

201 W. Preston Street, Baltimore, Maryland 21201
John M. DeBoy, Dr. P. H., Director

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: — No. B: — Field Blank Bottle No. 1: FBKW 81613 No B: —

Plant/Site Name: HCHD County: Howard

Sample Source: Distilled H₂O Location: Lab
(well no, lab sink, sample tap, etc.)

County: ☒ 3 Plant No. ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

CHECK (one per box)

Drinking Water <input checked="" type="checkbox"/>	Community <input type="checkbox"/>	Source (raw water) <input checked="" type="checkbox"/>	Emergency <input type="checkbox"/>
Landfill <input type="checkbox"/>	Non-community <input type="checkbox"/>	Distribution (treated) <input type="checkbox"/>	Routine <input checked="" type="checkbox"/>
Stream <input type="checkbox"/>	Private <input checked="" type="checkbox"/>	MCL <input type="checkbox"/>	Recheck <input type="checkbox"/>
Other <input type="checkbox"/>	Other <input type="checkbox"/>		Special <input type="checkbox"/>

Collector: K. Welf Telephone No.: 410 813 2645

Date Collected: 8/16/13 Time Collected: 9:00 a.m. — p.m.

Nitric Acid Preserved: Yes ☒ No ☐ Iced: Yes ☒ No ☐

Submitters Code: ☐ ☐ Federal Project: ☐ Field Data: — pH — Chlorine —

Remarks: Field Blank Gross 2, B

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Analyzed	Date Reported
	Gross Alpha	4000				
	Gross Beta	4100				
	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				

Date Received: — / — / —

Supervisor: —

• Tel. No.: (410) 767 - 5537 • Fax No.: (410) 333 - 5373

Send Report To:

Bert Nixon

State of Maryland
DHMH - Laboratories Administration

Division of Environmental Chemistry
RADIATION LABORATORY

201 W. Preston Street, Baltimore, Maryland 21201
John M. DeBoy, Dr. P. H., Director

Howard County Health Department
Bureau of Environmental Health
7178 Columbia Gateway Drive
Columbia, Maryland 21046

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: HOKWRAD2469 No. B: — Field Blank Bottle No. 1: FBKW8613 No B: —

Plant/Site Name: Homewood Crossing Lot (79) County: Howard

Sample Source: Ashby Court Location: HO -95-2469
(well no, lab sink, sample tap, etc.)

County: ☒ 1 ☒ 3 Plant No. ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

CHECK (one per box)

Drinking Water ☒
Landfill ☐
Stream ☐
Other ☐

Community ☐
Non-community ☐
Private ☒
Other ☐

Source (raw water) ☒
Distribution (treated) ☐
MCL ☐

Emergency ☐
Routine ☒
Recheck ☐
Special ☐

Collector: K. Wolf

Telephone No.: 410 313 2645

Date Collected: 8/16/13

Time Collected: 8 a.m. 2 p.m.

Nitric Acid Preserved: Yes ☒ No ☐

Iced: Yes ☒ No ☐

Submitters Code: ☐☐ Federal Project: ☐

Field Data: — pH — Chlorine

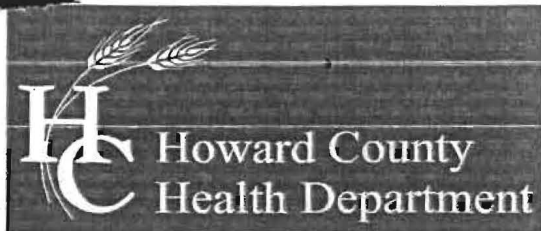
Remarks: Sample pH preserved < 2.0

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Analyzed	Date Reported
✓	Gross Alpha	4000				
✓	Gross Beta	4100				
	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				

Date Received: — / — / —

Supervisor: —

•Tel. No.: (410) 767 - 5537 •Fax No: (410) 333- 5373



Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

Main: 410-313-2640 | Fax: 410-313-2648

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

MEMORANDUM

TO: Fogle's Well Drilling
ATTN: Theresa
Allen Compton MWD

FROM: Kevin M. Wolf, R.S., R.E.H.S. *(KMW)*
Well and Septic Program
Groundwater Management Section

RE: ***Homewood Crossing Lots 70, 71, 73, 75, 76, 78, 79 Well Permit Applications: Special Conditions***

DATE: January 17th, 2013

The following comments apply to the above referenced Well Permit Applications. Please read through and complete as needed.

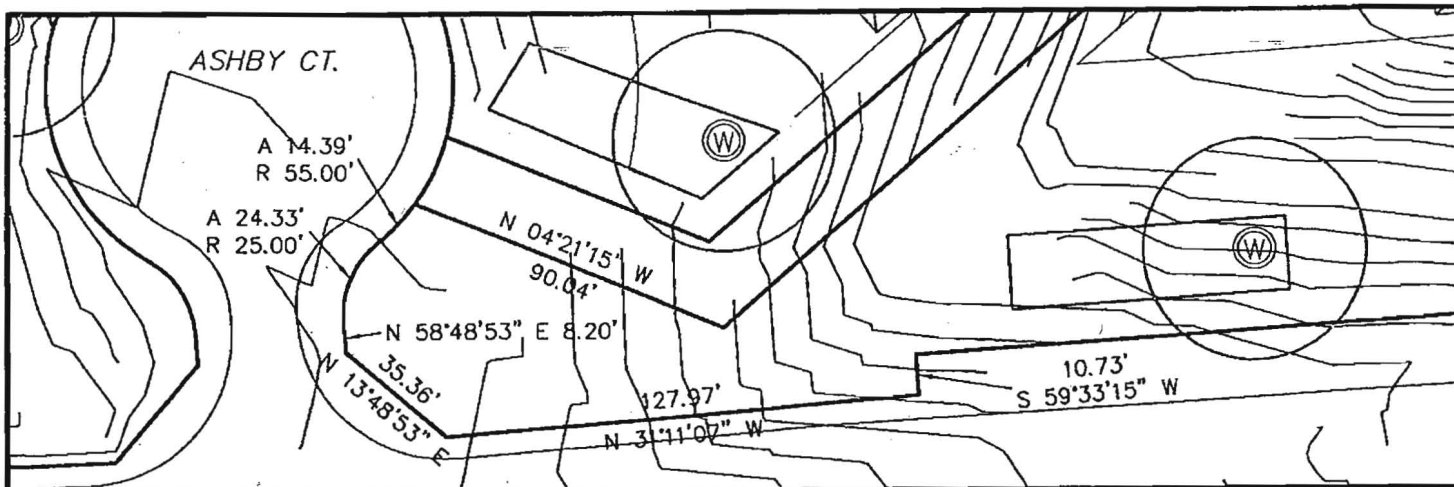
In order to preserve the quality of ground drinking water, a special condition has been set for the above referenced lots. This condition requires the driller to seal off the upper strata by placing a certain amount of casing to the approximate depth below the very first water-bearing fracture OR a minimum of 75 feet (which ever comes first). For example, if you hit a water-bearing fracture at 53 feet, then there should be at least 55 feet of casing or enough casing to get below that fracture. **Any deviations to this condition are to be prior approved by the Health Department.** This will also require sampling at the time of yield test for each well. Sampling will include but not limited to, total dissolved solids, chlorides and sodium.

Homewood Crossing Lots 70, 71, 73, 75, 76, 78, and 79 are located in the Radium area and require testing. This testing will be done during the yield test of each well on each indicated lot. When calling in yields and grouts on such pre-scheduled days, please make a note that a sanitarian will need to be present during the time of the yield test to take the recommended samples.

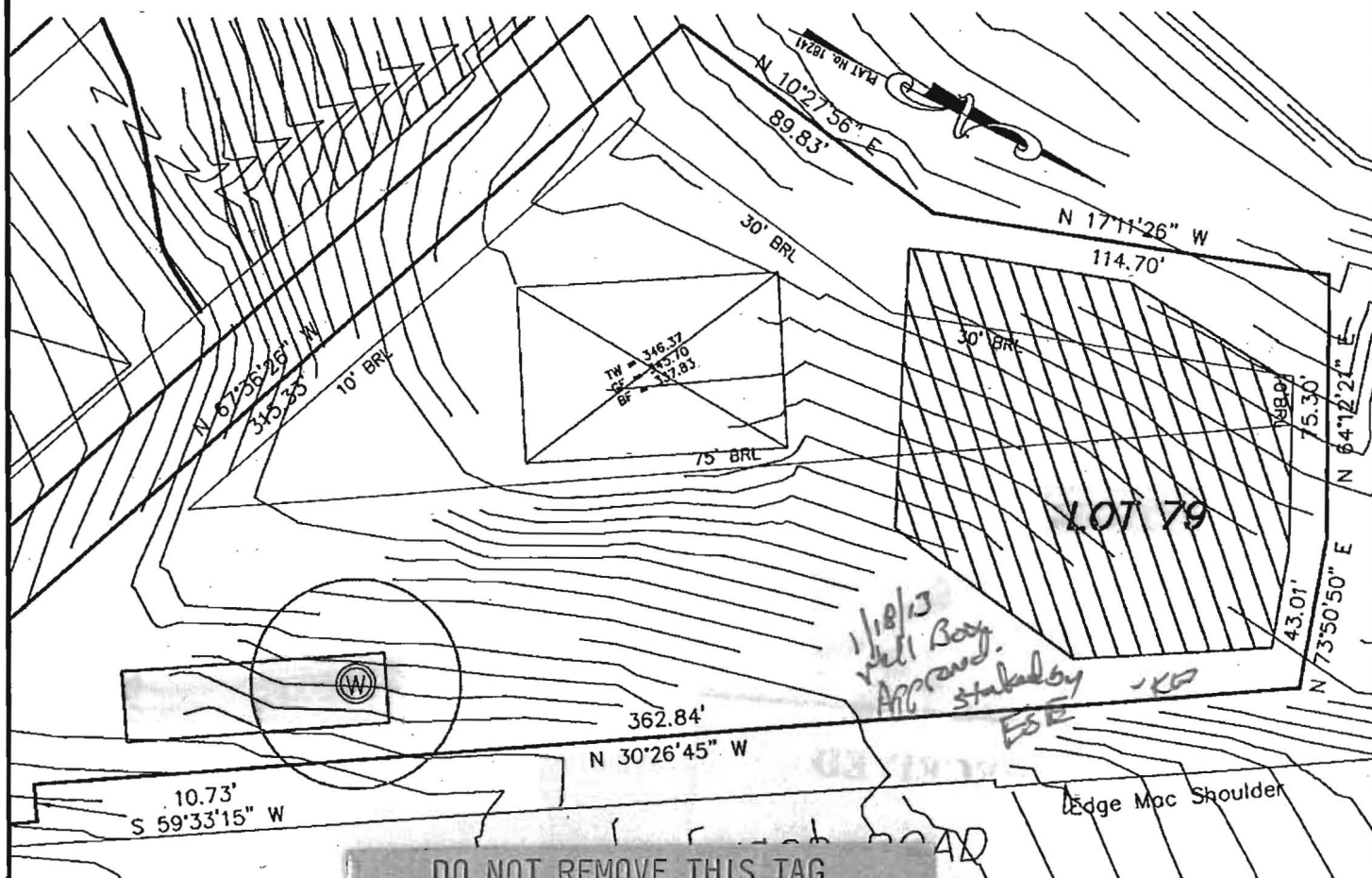
If you have any questions on this matter, please feel free to call me at any time at 410-313-2645.

KMW

C.C. Files Lots 70, 71, 73, 75, 76, 78, and 79



SCALE 1" = 50'



DO NOT REMOVE THIS TAG
DEPARTMENT OF THE ENVIRONMENT
WELL PERMIT NUMBER

HO-95-2469

INFORMATION-GIVE NUMBER AND WRITE
1800 WASHINGTON BLVD.
BALTIMORE, MARYLAND 21230

IG



Land Planning
Engineering
Land Surveying

ESE Consultants Inc.
7164 Columbia Gateway Dr.
Suite 203
Columbia, MD 21046
TEL: 410-872-9105
FAX: 410-872-4870

DATE: 12/14/2012

DRAWN BY: C.E.R.


CHK'D: M.J.B.

SCALE 1" = 50'

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

MEMORANDUM

TO: Teresa Miller
Allen Compton, MWD
Fogles Well & Septic
Faxed to 443-609-4196

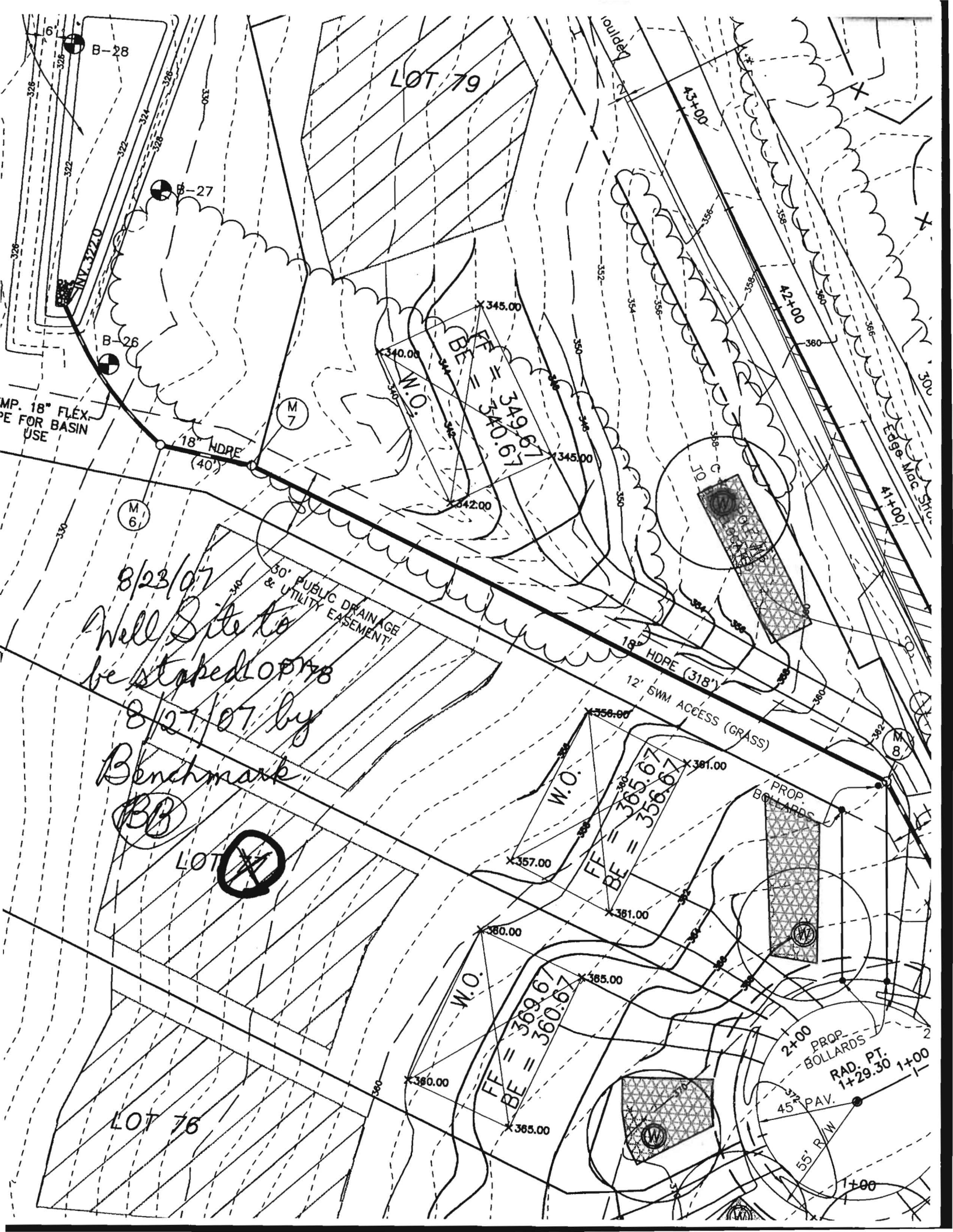
FROM: Stuart F. Oster, R.S. 
Groundwater Management Section Supervisor
Well and Septic Program

DATE: August 21, 2009

RE: One year well permit extension (8/23/09 to 8/23/10) for the following
wells in the **Patuxent Chase (Homewood Crossing) Development**

<u>LOT #</u>	<u>WELL TAG #</u>
44	HO-95-1229
67	HO-95-1295
70	HO-95-1238
71	HO-95-1296
73	HO-95-1239
75	HO-95-1240
76	HO-95-1241
78	HO-95-1242
79	HO-95-1243

C: Files



8/23/07

Well Site to
be staked on 78

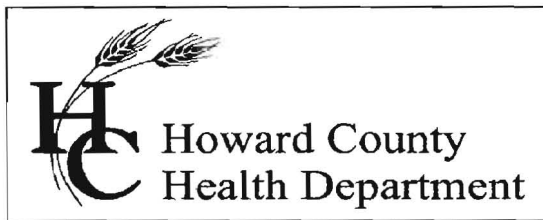
8/27/07 by

Benchmark

BB

LOT 75

LOT 76



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

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 – July 20, 2016

January 20, 2016

TOLL MD III LP
14590 Edgewoods Way
Glenelg, MD 21042

**RE: Homewood Crossing, Lot 79
4702 Ashby Court
Building Permit: B15001163
Well Permit: HO-95-2469**

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 **1/12/16**. Final approval of the well line connection to the dwelling was granted on **8/3/15**. The well construction was completed on **8/16/13**. Water samples were collected on **11/20/15**.

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 **8/16/13**. Results showed a Gross Alpha level of **5.5 ± 1.7 pCi/L** and **Gross Beta** level of **9.3 ± 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 target level of 50pCi/L (roughly equivalent to the annual dose rate of 4 millirems per year). 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-95-2469. 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,

Hank Oswald

Hank Oswald
Environmental Sanitarian
Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits
Community Hygiene Program
File



Fredericktowne
ENVIRONMENTAL TESTING

Labs Inc.

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. 8933 - 5-1

Field Record

Site visit performed on: Friday, November 20, 2015 1:55 PM

by: Jessica Fogle

Affiliation: Fogle's Well Drilling & Pumps

Property Owner: Residence

Property Address: 4702 Ashby Court

Ellicott City, MD

Sample Source: Pressure Tank

Laboratory Report

Sample Received at laboratory: 11/20/2015 3:30 PM

Bacteriological results:

Total Colif. (/100ml)	E.coli. (/100ml)	Start		End		Method	Analyst
		Date	Time	Date	Time		
<1	<1	11/20/15	16:20	11/21/15	16:20	9223B	KB

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

Inorganic Chemical results:

Parameter	Result	Units	MCL	Date of Analysis	Method	Analyst
Nitrate-Nitrogen	3.8	mg/l	10	11/20/2015	300.0	PH
Sand	<2	mg/l	5	11/21/2015	0.065mm Filter	KB
Turbidity	5.6	NTU	10	11/20/2015	180.1	PH

Reported by:

Colleen Mellott 11/25/15
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

Send Report To:

Bert Nixon

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
RADIATION LABORATORY

E000516 221

Howard County Health Department
Bureau of Environmental Health
7178 Columbia Gateway Drive
Columbia, Maryland 21046

201 W. Preston Street, Baltimore, Maryland 21201
John M. DeBoy, Dr. P. H., Director

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: HOKWRAD2469 No. B: — Field Blank Bottle No. 1: FBKW8613 No B: —

Plant/Site Name: Homewood Crossing Lot (79) County: Howard

Sample Source: Ashby Court Location: HO - 95-2469
(well no, lab sink, sample tap, etc.)

County: ☒ 1 ☒ 3 Plant No. ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

CHECK (one per box)

Drinking Water ☒
Landfill ☐
Stream ☐
Other ☐

Community ☐
Non-community ☐
Private ☒
Other ☐

Source (raw water) ☒
Distribution (treated) ☐
MCL ☐

Emergency ☐
Routine ☒
Recheck ☐
Special ☐

Collector: K. Wolf

Telephone No.: 410 313 2645

Date Collected: 8/16/13

Time Collected: 8 a.m. 2 p.m.

Nitric Acid Preserved: Yes ☒ No ☐

Iced: Yes ☒ No ☐

Submitters Code: ☐ ☐

Federal Project: ☐

Field Data: — pH — Chlorine

Remarks: Sample pH preserved < 2.0

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Analyzed	Date Reported
✓	Gross Alpha	4000	0516	5.5 ± 1.7	8/24/13	8/27/13
✓	Gross Beta	4100	0516	9.3 ± 2.0	✓	✓
	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				

Date Received: 08/21/13

Supervisor: [Signature]

• Tel. No. (410) 767 - 5537 • Fax No. (410) 333- 5373

Date Reported _____



Fredericktowne

ENVIRONMENTAL TESTING

Labs Inc.

3020 Venture Court • P.O. BOX 245 • Myersville, MD 21773 • 800-332-3340 • FAX 301-293-2366

www.fredericktownelabs.com • info@fredericktownelabs.com

Analysis Results

REVISED
Address 12/21/15

Account No.: 8933 - 5-2

Residence
4702 Ashby Court
Ellicott City, MD

Date Received: Friday, November 20, 2015
Collected By: Jessica Fogle
Fogle's Well Drilling & Pumps
Date Reported: Wednesday, December 02, 2015

Matrix: Drinking Water

Lab#	Parameter	Result	Limit of Detection	Method	Start Date	Start Time	End Date	End Time	Analyst
Source: - Pressure Tank Type: Grab Collection Date: 11/20/2015 - 13:55									
8933-5-2-1	Radium 226	See Report							BRD

Notes:

1. mg/l stands for milligrams per liter and is nearly synonymous with parts per million
2. ug/l stands for micrograms per liter and is nearly synonymous with parts per billion
3. < stands for "less than" and indicates that the component in question was not detected (i.e. was less than the detection limit)
4. All analyses performed using EPA accepted methods in accordance with Title 40 Code of Federal Regulations Part 141 & 143. Method references: (1) Methods for the Chemical Analysis of Water & Wastewater EPA-600/4-79-020, (2) Standard Methods for the Examination of Water Wastewater - AWWA 19th/20th eds.
5. "***" denotes an analysis that was subcontracted to a State of Maryland approved lab.
6. Information concerning field pH and chlorine for bacteriological samples may be found on the chain of custody form.

Verified by:

M. L. Miller 12/21/15
M. L. Miller, Ph.D.
Laboratory Director

Fredericktowne Labs is a State Certified Water Quality Laboratory
MD Cert. No.: 116 VA Cert. No.: 444
MDOT WBE Cert. No.: 91-158



Summit Environmental Technologies, Inc.
 3310 Win St.
 Cuyahoga Falls, Ohio 44223
 TEL: (330) 253-8211 FAX: (330) 253-4489
 Website: <http://www.settek.com>

Analytical Report

(consolidated)

WO#: 15111668

Date Reported: 11/30/2015

CLIENT: Fredericktowne Labs, Inc
 Project: 8933-5-2
 Lab ID: 15111668-001
 Client Sample ID 8933-5-2-1

Collection Date: 11/20/2015 1:55:00 PM

Matrix: DRINKING WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
DW RADIUM-226 ANALYSIS (903.0)							
					E903.0	E903-904	Analyst: BRD
Radium-226	ND	0.980		pCi/L	± 0.13	1	11/30/2015 11:47:00 A
Yield	0.980					1	11/30/2015 11:47:00 A

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- H Holding times for preparation or analysis exceeded
- MC Value is below Minimum Compound Limit.
- ND Not Detected at the Reporting Limit
- P Second column confirmation exceeds

- R Value above quantitation range
- M Manual Integration used to determine area response
- N Tentatively identified compounds
- O RSD is greater than RSDlimit
- PL Permit Limit

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Page 5 of 8



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
A SERVICE LABORATORY

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.setek.com>

November 30, 2015

Patricia Hill
Fredericktowne Labs, Inc
PO 245
Myersville, MD 21773
TEL: 301-293-3340
FAX: 301-293-2366

RE: 8933-5-2

Dear Patricia Hill:

Order No: 15111668

Summit Environmental Technologies, Inc. received 1 sample(s) on 11/24/2015 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Ana C. Slocum
Project Manager
3310 Win St.
Cuyahoga Falls, Ohio 44223

AKLA 072401, Alabama 41600, Arizona AZ0788, Arkansas 83-0935, California 072567A, Colorado, Connecticut PH-0105, Delaware, Florida NELAC 087688, Georgia 637688 and 943, Idaho OH00923, Illinois 200061 and Reg 5, Indiana C-OH-13, Kansas E-49347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Louisiana 04461 and LA12004, Maine 2012015, Maryland 339, Massachusetts M-OPH923, Minnesota 409711, Montana CERT0099, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, Ohio Drinking Water 4170, Ohio VAP CLO052, Oklahoma 9440, Oregon OH200601, Rhode Island LA000317, South Carolina 92015001, Tennessee TN04018, Texas T10470446b-11-5, Region 3 8TMS-L, USDA APHIS P430-11-00244, Utah OH009232011-1, Vermont VT-87638, Virginia 00440 and 1581, Washington C891, West Virginia 248 and 9957C and E87688, Wisconsin 399013010

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Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.setek.com>

Case Narrative

WO#: 15111668
Date: 11/30/2015

CLIENT: Fredericktowne Labs, Inc
Project: 8933-5-2

This report in its entirety consists of the documents listed below. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Paginated Report including Cover Letter, Case Narrative, Analytical Results, Applicable Quality Control Summary Reports, and copies of the Chain of Custody Documents are supplied with this sample set

Concentrations reported with a J-Flag in the Qualifier Field are values below the Limit of Quantitation (LOQ) but greater than the established Method Detection Limit (MDL).

Method numbers, unless specified as SM (Standard Methods) or ASTM, are EPA methods.

Estimated uncertainty values are available upon request.

Analysis performed by DBM, VRM, or SFG were performed at Summit Labs 2704 Eatonton Highway Haddock, GA 31033

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

This report is believed to meet all of the requirements of NELAP or the accrediting / certifying agency. Any comments or problems with the analytical events associated with this report are noted below.

Original

Page 2 of 5



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
A Division of Summit Environmental Technologies, Inc.

Summit Environmental Technologies, Inc.
3310 Wins
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-448
Website: <http://www.seftek.co>

Qualifiers and Acronyms

WO#: 15111668

Date: 11/30/2015

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

F	The compound was analyzed for but was not detected.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B/MB+	The analyte was detected in the associated blank.
G	The ICB or CCB contained reportable amounts of analyte.
QC/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
Z	Deviation: A deviation from the method was performed. Please refer to the Case Narrative for additional information.

Acronyms

ND	Not Detected	RL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MCL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	Calibration Factor
DF	Dilution Factor	RF	Response Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Original
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SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Geophysical - Environmental

Summit Environmental Technologies, Inc.
3316 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.satek.com>

Workorder Sample Summary

WO#: 15111668

30-Nov-15

CLIENT: Fredericktowne Labs, Inc
Project: 8933-5-2

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
15111668-001	8933-5-2-1		11/20/2015 1:55:00 PM	11/24/2015 11:00:00 AM	Drinking Water

FREDERICKTOWNE LABS, INC.
3020 VENTRIE CT., PO BOX 245, MYERSVILLE, MD 21773
301-293-3340 OR FAX 301-293-2366

[illegible]