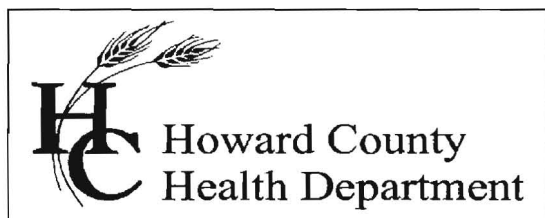


<b>C1</b> 8753 <small>1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN C.O.S. 3-6 ON ALL CARDS)</small>	SEQUENCE NO. (MDE USE ONLY)	<b>STATE OF MARYLAND</b> <b>WELL COMPLETION REPORT</b> FILL IN THIS FORM COMPLETELY PLEASE TYPE	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED. COUNTY NUMBER <b>(13) A517422</b>														
ST/CO USE ONLY DATE Received MM DD YY 6 13	DATE WELL COMPLETED MM DD YY 1 8 2007	Depth of Well 22 280 26 (TO NEAREST FOOT)	PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-0519														
OWNER <b>DeFrancis</b> STREET OR RFD <b>Raining Fence Lane</b> first name SUBDIVISION <b>Walnut Grove</b> SECTION <b>Clarksville</b> LOT <b>23</b>																	
<b>WELL LOG</b> Not required for driven wells STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">DESCRIPTION (Use additional sheets if needed)</th> <th colspan="2">FEET</th> <th rowspan="2">check if water bearing</th> </tr> <tr> <th>FROM</th> <th>TO</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>0</td> <td>56</td> <td>✓</td> </tr> <tr> <td>Gray Mica Rock</td> <td>56</td> <td>280</td> <td>✓</td> </tr> </tbody> </table>		DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing	FROM	TO	Sand	0	56	✓	Gray Mica Rock	56	280	✓	<b>GROUTING RECORD</b> WELL HAS BEEN GROUTED (Circle Appropriate Box) <b>Y</b> <b>N</b> TYPE OF GROUTING MATERIAL (Circle one) CEMENT <b>CM</b> BENTONITE CLAY <b>BC</b> NO. OF BAGS <b>40</b> NO. OF POUNDS <b>3760</b> GALLONS OF WATER <b>240</b> DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 57 ft. (enter 0 if from surface)	
DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing														
	FROM	TO															
Sand	0	56	✓														
Gray Mica Rock	56	280	✓														
<b>CASING RECORD</b> casing types insert appropriate code below <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><b>ST</b> STEEL</td> <td><b>CO</b> CONCRETE</td> </tr> <tr> <td><b>PL</b> PLASTIC</td> <td><b>OT</b> OTHER</td> </tr> </table> MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) <b>6</b> Total depth of main casing (nearest foot) <b>60</b> 60 61 63 64 66 70		<b>ST</b> STEEL	<b>CO</b> CONCRETE	<b>PL</b> PLASTIC	<b>OT</b> OTHER	<b>PUMPING TEST</b> HOURS PUMPED (nearest hour) <b>3</b> PUMPING RATE (gal. per min.) <b>5</b> METHOD USED TO MEASURE PUMPING RATE <b>Bucket</b> WATER LEVEL (distance from land surface) BEFORE PUMPING <b>25</b> ft. WHEN PUMPING <b>197</b> ft. TYPE OF PUMP USED (for test) <b>A</b> air <b>P</b> piston <b>T</b> turbine <b>C</b> centrifugal <b>R</b> rotary <b>O</b> other (describe below) <b>J</b> jet <b>S</b> submersible											
<b>ST</b> STEEL	<b>CO</b> CONCRETE																
<b>PL</b> PLASTIC	<b>OT</b> OTHER																
<b>SCREEN RECORD</b> screen type or open hole insert appropriate code below <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><b>ST</b> STEEL</td> <td><b>BR</b> BRASS BRONZE</td> <td><b>HO</b> OPEN HOLE</td> </tr> <tr> <td><b>PL</b> PLASTIC</td> <td><b>OT</b> OTHER</td> <td></td> </tr> </table>		<b>ST</b> STEEL	<b>BR</b> BRASS BRONZE	<b>HO</b> OPEN HOLE	<b>PL</b> PLASTIC	<b>OT</b> OTHER		<b>C2</b> DEPTH (nearest ft.) 1 2 3 4 5 6 7 8 9 11 15 17 21 23 24 26 30 32 36 38 39 41 45 47 51 SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) from 56 to 60									
<b>ST</b> STEEL	<b>BR</b> BRASS BRONZE	<b>HO</b> OPEN HOLE															
<b>PL</b> PLASTIC	<b>OT</b> OTHER																
NUMBER OF UNSUCCESSFUL WELLS: <b>0</b> WELL HYDROFRACTURED <b>Y</b> <b>N</b> CIRCLE APPROPRIATE LETTER <b>A</b> A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED <b>E</b> ELECTRIC LOG OBTAINED <b>P</b> TEST WELL CONVERTED TO PRODUCTION WELL I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE. DRILLERS LIC. NO. <b>M SD 024</b> DRILLERS SIGNATURE <b>Ralph Mayne</b> (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. <b>MSD 027</b>		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															
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)		LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL) 															

Well Permit No. HO - 95-0579  
Location of property (road) Running Fence Lane  
Subdivision Walnut Grove Lot 23 Block      Plat      Sec.       
Well Driller Ralph Mayne Owner De Francis  
Joseph H  
Depth of well 280  
Distance of measuring point (M.P.) above ground 2'  
Static water level (S.W.L.) below M.P. 25'

Time pump started 10:25 Pumping rate 15 gpm.  
Total time 30 min to reach pumping water level 197 ft. below M.P.

[illegible]



## Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

Main: 410-313-6300 | Fax: 410-313-6303

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

[www.hchealth.org](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)

Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

### **INTERIM CERTIFICATE OF POTABILITY** **PERMANENT DEVIATION FOR NITRATES**

Expiration Date – July 15<sup>th</sup>, 2013

January 15<sup>th</sup>, 2013

Homeowner  
12229 Running Fence Lane  
Clarksville, MD 21029

**RE: Walnut Grove, Lot 23**  
12229 Running Fence Lane  
**Building Permit: B12001424**  
**Well Permit: HO-95-0579**

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 **12/12/2012**. Final approval of the well line connection to the dwelling was granted on **10/12/2012**. The well construction was completed on **1/8/2007**. Water samples were collected on **1/11/2013, 1/2/2013, 12/20/2012 & 12/10/2012**.

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 **1/9/2007**. Results showed a Gross Alpha level of **7.0 ± 1.6 pCi/L** and **Gross Beta** level of **5.3 ± 1.2 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.

The untreated water sample collected on **12/10/2012** indicated a nitrate level of **15.2 mg/L**. **This exceeds the maximum contaminant limit of 10 mg/L set forth in COMAR 26.04.04.09**. After installation of a nitrate removal device (kitchen tap reverse osmosis system), a post-treatment water sample was collected on **12/20/2012** and indicated a nitrate level of **1.1 mg/L**.

This Department will grant a **permanent deviation** to the Interim Certificate of Potability on condition that the nitrate removal system effectively maintains a nitrate-nitrogen contaminant level of **10 mg/L or less**.

**Furthermore, it will be necessary for you to comply with the following conditions:**

1. The system must be properly operated and maintained continuously in accordance with the service contract for the life of the residence.

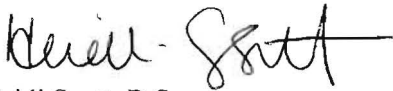
2. It is recommended that a Maryland certified water laboratory certified for nitrates analysis perform a yearly nitrate analysis.
3. If you decide to sell or rent your home in the future, you must make any potential buyer/tenant aware of this permanent deviation. **A person who fails to make this disclosure is subject to the penalties set out in COMAR 26.04.04.12F Enforcement and Environment Article 9-1311, Annotated Code of Maryland.**

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-95-0579. 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,



Heidi Scott, R.S.  
Environmental Sanitarian  
Well & Septic Program

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



TRACE LABORATORIES, INC  
5 North Park Drive  
Hunt Valley, MD 21030 USA  
Telephone: 410/584-9099 / Fax: 410/584-9117  
Website: www.tracelabs.com / Email: info@tracelabs.com

Maryland State Certified Laboratory #318

## CERTIFICATE OF ANALYSIS

**Requester:**

James H. Selfridge Builders Inc.  
4781 Ten Oaks Road  
Dayton, Maryland 21036

**S/O Number:** 87834**Report Date:** January 14, 2013**Retest #3**

**Property Sampled:** 12229 Running Fence Lane, 21029  
**Sample Location:** Pressure Tank Tap  
**Residual Chlorine:** <0.1 mg/L

**Building Permit #:** B12001424  
**Sampler ID #:** 7483AM  
**Samples Iced:** Yes

**County:** Howard  
**Map:** 28

**Subdivision:** Walnut Grove  
**Parcel:** 74

**Lot #:** 23

**Date/Time Collected in Field:** January 11, 2013 @ 2:24 pm  
**Date/Time Received in Lab:** January 11, 2013 @ 3:23 pm

**Well Tag #:** HO-95-0579  
**Well Condition:** 2-Piece Cap, Satisfactory

**Water Treatment/Conditioning:** Sediment Filter, Reverse Osmosis (R/O)

PARAMETER	METHOD	MCL	RESULT	PASS/FAIL
Total Coliform	SM 9223B	Absent	Absent	Pass
E. coli	SM 9223B	Absent	Absent	Pass

The results in this report relate only to those items tested. If any additional information or clarification of this report is required, please contact us. This test report shall not be reproduced except in full without the written approval of Trace Laboratories Inc.

Bacteria OK  
1/15/12 HS

Amber Maxwell  
Drinking Water Specialist

MCL: Maximum Contamination Level, an enforceable level established by the EPA





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Maryland State Certified Laboratory #318

## CERTIFICATE OF ANALYSIS

**Requester:**

James H. Selfridge Builders Inc.  
4781 Ten Oaks Road  
Dayton, Maryland 21036

**S/O Number:** 87736**Report Date:** January 3, 2013**Bacteria Retest #2**

**Property Sampled:** 12229 Running Fence Lane, 21029  
**Sample Location:** Pressure Tank Tap  
**Residual Chlorine:** <0.1 mg/L

**Building Permit #:** B12001424  
**Sampler ID #:** 7483AM  
**Samples Iced:** Yes

**County:** Howard  
**Map:** 28

**Subdivision:** Walnut Grove  
**Parcel:** 74

**Lot#:** 23

**Date/Time Collected in Field:** January 2, 2013 @ 12:39 pm

**Date/Time Received in Lab:** January 2, 2013 @ 1:40 pm

**Well Tag #:** HO-95-0579  
**Well Condition:** 2-Piece Cap, Satisfactory

**Water Treatment/Conditioning:** Sediment Filter, Reverse Osmosis (R/O)

PARAMETER	METHOD	MCL	RESULT	PASS/FAIL
Total Coliform	SM 9223B	Absent	PRESENT	FAIL
E. coli	SM 9223B	Absent	Absent	Pass

The results in this report relate only to those items tested. If any additional information or clarification of this report is required, please contact us. This test report shall not be reproduced except in full without the written approval of Trace Laboratories Inc.

Fail Total Coliform  
E. coli OK RCB 1/4/13

Katherine C. Higgs  
Katherine C. Higgs  
Manager – Drinking Water Testing

MCL: Maximum Contamination Level, an enforceable level established by the EPA



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Maryland State Certified Laboratory #318

## CERTIFICATE OF ANALYSIS

**Requester:**

James H. Selfridge Builders Inc.  
4781 Ten Oaks Road  
Dayton, Maryland 21036

**S/O Number:** 87640-2**Report Date:** December 21, 2012**Nitrate Retest #1**

**Property Sampled:** 12229 Running Fence Lane, 21029  
**Sample Location:** Reverse Osmosis (R/O) Tap ✓  
**Residual Chlorine:** <0.1 mg/L

**Building Permit #:** B12001424  
**Sampler ID #:** 7483AM  
**Samples Iced:** Yes

**County:** Howard  
**Map:** 28

**Subdivision:** Walnut Grove  
**Parcel:** 74

**Lot#:** 23

**Date/Time Collected in Field:** December 20, 2012 @ 12:26 pm  
**Date/Time Received in Lab:** December 20, 2012 @ 1:16 pm

**Well Tag #:** HO-95-0579  
**Well Condition:** 2-Piece Cap, Satisfactory

**Water Treatment/Conditioning:** Sediment Filter, Reverse Osmosis (R/O)

PARAMETER	METHOD	MCL	RESULT	PASS/FAIL
Nitrate	SM 4500D	10 mg/L as N	1.1 mg/L as N ✓	Pass

The results in this report relate only to those items tested. If any additional information or clarification of this report is required, please contact us. This test report shall not be reproduced except in full without the written approval of Trace Laboratories Inc.

OK / Permanent Deviation for Nitrate  
MB 1/4/13

Katherine C. Higgs  
Katherine C. Higgs  
Manager – Drinking Water Testing

MCL: Maximum Contamination Level, an enforceable level established by the EPA

**TRACE LABORATORIES, INC**

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**CERTIFICATE OF ANALYSIS****Requester:**

James H. Selfridge Builders Inc.  
4781 Ten Oaks Road  
Dayton, Maryland 21036

**S/O Number:** 87640-1

**Report Date:** December 21, 2012

**Bacteria Retest #1**

**Property Sampled:** 12229 Running Fence Lane, 21029  
**Sample Location:** Pressure Tank Tap  
**Residual Chlorine:** <0.1 mg/L

**Building Permit #:** B12001424  
**Sampler ID #:** 7483AM  
**Samples Iced:** Yes

**County:** Howard  
**Map:** 28

**Subdivision:** Walnut Grove  
**Parcel:** 74

**Lot#:** 23

**Date/Time Collected in Field:** December 20, 2012 @ 12:23 pm

**Date/Time Received in Lab:** December 20, 2012 @ 1:16 pm

**Well Tag #:** HO-95-0579  
**Well Condition:** 2-Piece Cap, Satisfactory

**Water Treatment/Conditioning:** Sediment Filter, Reverse Osmosis (R/O)

PARAMETER	METHOD	MCL	RESULT	PASS/FAIL
Total Coliform	SM 9223B	Absent	<b>PRESENT</b>	<b>FAIL</b>
<i>E. coli</i>	SM 9223B	Absent	Absent	Pass

The results in this report relate only to those items tested. If any additional information or clarification of this report is required, please contact us. This test report shall not be reproduced except in full without the written approval of Trace Laboratories Inc.

Fail rec 1/4/13

Katherine C. Higgs

Katherine C. Higgs  
Manager – Drinking Water Testing

MCL: Maximum Contamination Level, an enforceable level established by the EPA



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Maryland State Certified Laboratory #318

**CERTIFICATE OF ANALYSIS****Requester:**

James H. Selfridge Builders Inc.  
4781 Ten Oaks Road  
Dayton, Maryland 21036

**S/O Number:** 87526**Report Date:** December 11, 2012

**Property Sampled:** 12229 Running Fence Lane, 21029  
**Sample Location:** Pressure Tank Tap ✓  
**Residual Chlorine:** <0.1 mg/L

**Building Permit #:** B12001424  
**Sampler ID #:** 7483AM  
**Samples Iced:** Yes

**County:** Howard  
**Map:** 28

**Subdivision:** Walnut Grove  
**Parcel:** 74

**Lot#:** 23**Date/Time Collected in Field:** December 10, 2012 @ 12:10 pm**Date/Time Received in Lab:** December 10, 2012 @ 2:11 pm**Well Tag #:** HO-95-0579**Well Condition:** 2-Piece Cap, Satisfactory**Water Treatment/Conditioning:** Sediment Filter

PARAMETER	METHOD	MCL/*SMCL	RESULT	PASS/FAIL
Total Coliform	SM 9223B	Absent	PRESENT	FAIL
E. coli	SM 9223B	Absent	Absent	Pass
Nitrate	SM 4500D	10 mg/L as N	15.2 mg/L as N	FAIL
Turbidity	EPA 180.1	10 NTU	3.0 NTU ✓	Pass
pH	EPA 150.1	*6.5-8.5 Units	7.3 Units ✓	***
Sand		Absent	Absent ✓	Pass

The results in this report relate only to those items tested. If any additional information or clarification of this report is required, please contact us. This test report shall not be reproduced except in full without the written approval of Trace Laboratories Inc.

*Fail Nitrate*  
*Fail Bacteria*  
*\* Turbidity, pH & Sand*  
*'OK' &*  
*reb 1/4/13*

*Katherine C. Higgs*

Katherine C. Higgs  
Manager – Drinking Water Testing

MCL: Maximum Contamination Level, an enforceable level established by the EPA

\*SMCL: Secondary Maximum Contamination Level, a level recommended by the EPA

\*\*\*A non-enforceable parameter that may cause cosmetic effects or aesthetic effects (such as taste, color or odor) in drinking water.