



Microbac Laboratories, Inc. - Dayville

CERTIFICATE OF ANALYSIS

D8J2463

Project Name: 118 Seabury Road, Lebanon, CT

Douglas Haynes
118 Seabury Road
Lebanon, CT 06249

Project / PO Number: CC \$250.00 Auth#92716P
Received: 10/25/2018
Reported: 11/01/2018

Case Narrative

For the parameters listed on this report, all currently established MCL's for potability have been met. If any SMCL's are outside of EPA or State established limits, a Water Treatment Specialist may be consulted for possible treatment options.

Analytical Testing Parameters

Table with client information: Client Sample ID: R.O. Faucet, Sample Matrix: Drinking Water, Lab Sample ID: D8J2463-01, Collected By: William P. Vasta, Collection Date: 10/25/2018 10:52

Main analytical results table with columns: Field Parameters, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Includes rows for Chlorine, Color, Turbidity, Odor, pH, Temperature, Calcium Hardness, Chloride, Nitrate, and Nitrite.



Microbac Laboratories, Inc. - Dayville

CERTIFICATE OF ANALYSIS

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|                                      |  |
|--------------------------------------|--|
| <b>Client Sample ID:</b> R.O. Faucet | <b>Collected By:</b> William P. Vasta    |
| <b>Sample Matrix:</b> Drinking Water | <b>Collection Date:</b> 10/25/2018 10:52 |
| <b>Lab Sample ID:</b> D8J2463-01     |  |

| Inorganics | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|------------|--------|----------|----|-------|------|----------|----------|---------|
|------------|--------|----------|----|-------|------|----------|----------|---------|

**Method: Wet Chem - DW/SM4500-SO4 E-1997**

|                |       |          |      |      |  |  |               |     |
|----------------|-------|----------|------|------|--|--|---------------|-----|
| Sulfate as SO4 | <5.00 | 250 SMCL | 5.00 | mg/L |  |  | 10/26/18 1340 | CLW |
|----------------|-------|----------|------|------|--|--|---------------|-----|

| Metals, Total | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|---------------|--------|----------|----|-------|------|----------|----------|---------|
|---------------|--------|----------|----|-------|------|----------|----------|---------|

**Method: EPA 200.7, Rv. 4.4**

|           |         |           |        |      |  |               |               |     |
|-----------|---------|-----------|--------|------|--|---------------|---------------|-----|
| Calcium   | <0.0500 |           | 0.0500 | mg/L |  | 10/26/18 0949 | 10/26/18 1352 | NJP |
| Manganese | <0.0020 | 0.05 SMCL | 0.0020 | mg/L |  | 10/26/18 0949 | 10/26/18 1352 | NJP |
| Iron      | <0.0500 | 0.3 SMCL  | 0.0500 | mg/L |  | 10/26/18 0949 | 10/26/18 1352 | NJP |
| Sodium    | <1.02   |           | 1.02   | mg/L |  | 10/26/18 0949 | 10/26/18 1352 | NJP |

| Metals, Total - ICP/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|------------------------|--------|----------|----|-------|------|----------|----------|---------|
|------------------------|--------|----------|----|-------|------|----------|----------|---------|

**Method: EPA 200.8, Rv. 5.4**

|                    |         |            |        |      |           |               |               |     |
|--------------------|---------|------------|--------|------|-----------|---------------|---------------|-----|
| Arsenic (V) (Calc) | <0.0040 |            | 0.0040 | mg/L |           | 10/30/18 1122 | 10/30/18 1159 | NJP |
| Arsenic (III)      | <0.0040 |            | 0.0040 | mg/L | <b>Y1</b> | 10/30/18 1122 | 10/30/18 1159 | NJP |
| Arsenic            | <0.0040 | 0.0100 MCL | 0.0040 | mg/L |           | 10/26/18 1148 | 10/26/18 1236 | DLO |

| Microbiology | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|--------------|--------|----------|----|-------|------|----------|----------|---------|
|--------------|--------|----------|----|-------|------|----------|----------|---------|

**Method: SM9223 B-1997**

|                  |        |         |  |          |  |               |               |     |
|------------------|--------|---------|--|----------|--|---------------|---------------|-----|
| Total Coliform   | Absent | 1.0 MCL |  | in 100mL |  | 10/25/18 1830 | 10/26/18 1833 | ARM |
| Escherichia coli | Absent | 1.0 MCL |  | in 100mL |  | 10/25/18 1830 | 10/26/18 1833 | ARM |

Results in **bold** have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

**Definitions**

- Absent:** A result of "Absent" for Total Coliform in drinking water indicates the sample is currently IN COMPLIANCE with the Total Coliform Rule as established under the Safe Drinking Water Act.
- CT101:** Connecticut Department of Public Health - Action Level List for Private Wells 19-13-B101
- H:** Sample was analyzed past holding time.
- MCL:** US EPA Maximum Contaminant Level
- RL:** Reporting Limit
- SMCL:** US EPA Secondary Maximum Contaminant Level
- Y1:** Accreditation is not offered by the accrediting body for this analyte.

**Project Requested Certification(s)**

Microbac Laboratories, Inc. - Dayville  
PH-0465

Connecticut Department of Public Health



Microbac Laboratories, Inc. - Dayville

CERTIFICATE OF ANALYSIS

D8J2463

**Report Comments**

*Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.*

*The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.*

**Reviewed and Approved By:**

A handwritten signature in black ink that reads 'Melisa L. Montgomery'.

Melisa L. Montgomery

QA Officer

Reported: 11/01/2018 11:20



D 8 J 2 4 6 3

CASH CUSTOMER



TAT 5 days

Project Name: 118 Seabury Road, Lebanon, CT

Douglas Haynes  
118 Seabury Road  
Lebanon, CT 06249  
Phone: 860-617-0484

Project / PO Number: \$250.00  
Tenatively Scheduled: 10/25/2018  
Field Route ID: DAY - Daily

Client Sample ID: Sample Location: R.O. Faucet

Lab Sample ID: D8J2463-01 (Reverse Osmosis)

Matrix: Drinking Water

Sampled Date & Time: 10/25/18 1052

Type: Grab

| <u>Analysis</u>           | <u>Method</u>                    | <u>Field Results/Comments</u>                              | <u>Hold Time</u>  |
|---------------------------|----------------------------------|--|-------------------|
| Field CL Res Total SM     | SM4500-CI G-2000                 | Field Instrument: <u>TRC</u> Result: <u>ND</u> Unit: _____ | 180.00 days       |
| 200.8 As Speciation Group | varies                           |  | 15.00 mins        |
| PRO-Basic P A_FCL         | varies                           |  | 2.00 days         |
| pH for Color              | SM2120 B-2001                    |  | 180.00 days       |
| Turbidity SM Metals       | SM2130 B-2001                    |  |                   |
|                           | <u>Container(s)</u>              |  | <u>Designator</u> |
|                           | M-120ml, Sterile Poly Bottle     |  | A                 |
|                           | P-500ml Plastic Oblong WM        |  | B                 |
|                           | P-125ml, HNO3, Plastic Oblong WM |  | C                 |
|                           | P-250ml, EDTA Plastic Oblong WM  |  | D                 |

|   |                                 |                                 |
|---|---------------------------------|---------------------------------|
| Sampled/Relinquished by: <u>[Signature]</u> | Date/Time: <u>10/25/18 1705</u> | Received by: <u>[Signature]</u> |
| Printed Name:                               |                                 | Printed Name:                   |
| Relinquished by:                            | Date/Time:                      | Received by:                    |
| Printed Name:                               |                                 | Printed Name:                   |
| Relinquished by:                            | Date/Time:                      | Received by:                    |
| Printed Name:                               |                                 | Printed Name:                   |

As Received at Laboratory: On Ice: Yes / No Temp 1.3 °C Total Containers: 4

Microbac Laboratories may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to an appropriately accredited laboratory. By signing this document you are acknowledging that you have been informed by Microbac that testing could be subcontracted and agree with this arrangement.

Notes:

0900-1200. Collection Address: 118 Seabury Road, Lebanon, CT. 860-617-0484. Colonial/Grey/Black Shuttere. Collect Payment.



EXP 

PRESERVATIVE  
VERIFIED  
Initials WPY



Microbac Laboratories, Inc. - Dayville

CERTIFICATE OF ANALYSIS

D8H2447

Project Name: 118 Seabury Road, Lebanon, CT

Douglas Haynes
118 Seabury Road
Lebanon, CT 06249

Project / PO Number: CC \$250.00 Auth#55267P
Received: 08/23/2018
Reported: 08/30/2018

Case Narrative

This water sample does not meet the established EPA MCL's for potability for one or more parameters. You should notify your Public Health Official for interpretation and instructions. A Water Treatment Specialist may be consulted for possible treatment options.

Analytical Testing Parameters

Table with client information: Client Sample ID: Kitchen Sink, Sample Matrix: Drinking Water, Lab Sample ID: D8H2447-01, Collected By: Peter Laflamme, Collection Date: 08/23/2018 11:50

Field Parameters

Table with 9 columns: Field Parameters, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row: Method: SM4500-CI G-2000, Chlorine - Total Residual, <0.05, 0.05, mg/L, 08/23/18 1150, PL

General Parameters

Table with 9 columns: General Parameters, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row: Method: Wet Chem - DW/SM2120 B-2001, Color - Apparent, 0, Color Units, 08/23/18 2105, SJR

Table with 9 columns: General Parameters, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row: Method: Wet Chem - DW/SM2130 B-2001, Turbidity, 0.280, 0.100, NTU, 08/23/18 2105, SJR

Table with 9 columns: General Parameters, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row: Method: Wet Chem - DW/SM2150 B-1997, Odor - TON, 0, 3 SMCL, T.O.N., 08/23/18 2105, SJR

Table with 9 columns: General Parameters, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row: Method: Wet Chem - DW/SM4500 H+ B-2000, pH, 8.23, 6.50-8.5 SMCL, pH Units, H, 08/23/18 2105, SJR

Table with 9 columns: General Parameters, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row: Method: Wet Chem - DW/SM4500 H+ B-2011, Temperature for pH, 14.7, °C, 08/23/18 2105, SJR

Inorganics

Table with 9 columns: Inorganics, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row: Method: EPA 200.7, Rv. 4.4, Calcium Hardness as CaCO3 (Calc), 58.8, 0.125, mg CaCO3/L, 08/27/18 1549, 08/27/18 2144, BRC

Table with 9 columns: Inorganics, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row: Method: Wet Chem - DW/SM4500-CI E-2011, Chloride, 19.7, 250 SMCL, 2.00, mg/L, 08/23/18 2117, MCM

Table with 9 columns: Inorganics, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row: Method: Wet Chem - DW/SM4500-NO3 F-2000, Nitrate as N, 0.123, 10.0 MCL, 0.0500, mg/L, 08/23/18 1832, MCM

Microbac Laboratories, Inc.

61 Louisa Viens Drive | Dayville, CT 06241 | 860.774.6814 p | www.microbac.com



Microbac Laboratories, Inc. - Dayville

CERTIFICATE OF ANALYSIS

D8H2447

|                                       |  |
|---------------------------------------|--|
| <b>Client Sample ID:</b> Kitchen Sink | <b>Collected By:</b> Peter Laflamme      |
| <b>Sample Matrix:</b> Drinking Water  | <b>Collection Date:</b> 08/23/2018 11:50 |
| <b>Lab Sample ID:</b> D8H2447-01      |  |

| Inorganics   | Result | Limit(s) | RL     | Units | Note | Prepared | Analyzed      | Analyst |
|--------------|--------|----------|--------|-------|------|----------|---------------|---------|
| Nitrite as N | 0.0505 | 1.00 MCL | 0.0100 | mg/L  |      |          | 08/23/18 1832 | MCM     |

Method: Wet Chem - DW/SM4500-SO4 E-1997

Method Notes: Temp

|                |      |          |      |      |  |  |               |     |
|----------------|------|----------|------|------|--|--|---------------|-----|
| Sulfate as SO4 | 22.7 | 250 SMCL | 5.00 | mg/L |  |  | 08/27/18 1504 | MCM |
|----------------|------|----------|------|------|--|--|---------------|-----|

| Metals, Total | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|---------------|--------|----------|----|-------|------|----------|----------|---------|
|---------------|--------|----------|----|-------|------|----------|----------|---------|

Method: EPA 200.7, Rv. 4.4

|           |         |           |        |      |  |               |               |     |
|-----------|---------|-----------|--------|------|--|---------------|---------------|-----|
| Calcium   | 23.6    |           | 0.0500 | mg/L |  | 08/27/18 1549 | 08/27/18 2144 | BRC |
| Manganese | 0.0122  | 0.05 SMCL | 0.0020 | mg/L |  | 08/27/18 1549 | 08/27/18 2144 | BRC |
| Iron      | <0.0500 | 0.3 SMCL  | 0.0500 | mg/L |  | 08/27/18 1549 | 08/27/18 2144 | BRC |
| Sodium    | 10.9    |           | 1.02   | mg/L |  | 08/27/18 1549 | 08/27/18 2144 | BRC |

| Metals, Total - ICP/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|------------------------|--------|----------|----|-------|------|----------|----------|---------|
|------------------------|--------|----------|----|-------|------|----------|----------|---------|

Method: EPA 200.8, Rv. 5.4

|                    |               |            |        |      |    |               |               |     |
|--------------------|---------------|------------|--------|------|----|---------------|---------------|-----|
| Arsenic (V) (Calc) | 0.0114        |            | 0.0040 | mg/L |    | 08/28/18 1236 | 08/28/18 1317 | CMK |
| Arsenic (III)      | <0.0040       |            | 0.0040 | mg/L | Y1 | 08/28/18 1236 | 08/28/18 1317 | CMK |
| Arsenic            | <b>0.0114</b> | 0.0100 MCL | 0.0040 | mg/L |    | 08/28/18 1236 | 08/28/18 1315 | CMK |

| Microbiology | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|--------------|--------|----------|----|-------|------|----------|----------|---------|
|--------------|--------|----------|----|-------|------|----------|----------|---------|

Method: SM9223 B-1997

|                  |        |         |  |          |  |               |               |     |
|------------------|--------|---------|--|----------|--|---------------|---------------|-----|
| Total Coliform   | Absent | 1.0 MCL |  | in 100mL |  | 08/23/18 1800 | 08/24/18 1821 | ARM |
| Escherichia coli | Absent | 1.0 MCL |  | in 100mL |  | 08/23/18 1800 | 08/24/18 1821 | ARM |

Results in **bold** have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

Definitions

- Absent:** A result of "Absent" for Total Coliform in drinking water indicates the sample is currently IN COMPLIANCE with the Total Coliform Rule as established under the Safe Drinking Water Act.
- CT101:** Connecticut Department of Public Health - Action Level List for Private Wells 19-13-B101
- H:** Sample was analyzed past holding time.
- MCL:** US EPA Maximum Contaminant Level
- RL:** Reporting Limit
- SMCL:** US EPA Secondary Maximum Contaminant Level
- Temp:** The sample temperature exceeded the recommended storage temperature range due to a failure of the sample storage refrigerator.
- Y1:** Accreditation is not offered by the accrediting body for this analyte.



Microbac Laboratories, Inc. - Dayville

CERTIFICATE OF ANALYSIS

D8H2447

**Project Requested Certification(s)**

Microbac Laboratories, Inc. - Dayville  
PH-0465

Connecticut Department of Public Health

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**Report Comments**

*Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.*

*The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.*

**Reviewed and Approved By:**

A handwritten signature in black ink that reads "Melisa L. Montgomery".

Melisa L. Montgomery  
QA Officer

Reported: 08/30/2018 16:13

Microbac Laboratories, Inc.

61 Louisa Viens Drive | Dayville, CT 06241 | 860.774.6814 p | www.microbac.com



Microbac Laboratories, Inc. - Dayville

Chain of Custody

**D8H2447**

TAT 5 days

Project Name: 118 Seabury Road, Lebanon, CT

Douglas Haynes  
118 Seabury Road  
Lebanon, CT 06249  
Phone: 860-617-0484

Project / PO Number: \$250.00  
Tenatively Scheduled: 8/23/2018  
Field Route ID: DAY - Daily

Client Sample ID: Sample Location: KITCHEN SINK

Lab Sample ID: D8H2447-01

Matrix: Drinking Water

Sampled Date & Time: 8-23-18 1150

Type: Grab

| <u>Analysis</u>           | <u>Method</u>    | <u>Field Results/Comments</u>                         | <u>Hold Time</u>  |
|---------------------------|------------------|---|-------------------|
| Field CL Res Total SM     | SM4500-CI G-2000 | Field Instrument: _____ Result: <u>ND</u> Unit: _____ | 180.00 days       |
| 200.8 As Speciation Group | varies           |   | 15.00 mins        |
| PRO-Basic P A_FCL         | varies           |   | 2.00 days         |
| pH for Color              | SM2120 B-2001    |   | 180.00 days       |
| Turbidity SM Metals       | SM2130 B-2001    |   |                   |
|                           |                  | <u>Container(s)</u>                                   | <u>Designator</u> |
|                           |                  | M-120ml, Sterile Poly Bottle                          | A                 |
|                           |                  | P-500ml Plastic Oblong WM                             | B                 |
|                           |                  | P-125ml, HNO3, Plastic Oblong WM                      | C                 |
|                           |                  | P-250ml, EDTA Plastic Oblong WM                       | D                 |

|  |                                   |                                    |
|--|-----------------------------------|------------------------------------|
| Sampled/Relinquished by:<br><u>[Signature]</u> | Date/Time:<br><u>8-23-18 1645</u> | Received by:<br><u>[Signature]</u> |
| Printed Name:<br><u>VERA CAFFANUE</u>          |                                   | Printed Name:                      |
| Relinquished by:                               | Date/Time:                        | Received by:                       |
| Printed Name:                                  |                                   | Printed Name:                      |
| Relinquished by:                               | Date/Time:                        | Received by:                       |
| Printed Name:                                  |                                   | Printed Name:                      |

As Received at Laboratory: On Ice: Yes / No Temp 4.2°C Total Bottles: 4

Microbac Laboratories may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to an appropriately accredited laboratory. By signing this document you are acknowledging that you have been informed by Microbac that testing could be subcontracted and agree with this arrangement.

Notes:

0900-1200. Collection Address: 118 Seabury Road, Lebanon, CT. 860-617-0484. Colonial/Grey/Black Shutter. Collect Payment.

MASTER CARD



RXP