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# Microbac Laboratories, Inc., Sayre Division

## CERTIFICATE OF ANALYSIS

S1J0374

**Elmira Water Board**

Rose Martino
One Fountain Drive
Elmira, NY 14905

**Project Name: SOCs**

Project / PO Number: N/A
Received: 10/12/2021
Reported: 10/28/2021

**Analytical Testing Parameters**

| | | | |
|---|---|---|---|
| **Client Sample ID:** | Filter Plant Entry Point | | |
| **Sample Matrix:** | Drinking Water | **Collected By:** | Rose Martino |
| **Lab Sample ID:** | S1J0374-01 | **Collection Date:** | 10/12/2021 7:30 |

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

| Volatile Organic Compounds by GC/ECD | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **Method: EPA 504.1, Rv. 1.1 (1995)** | | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | <0.00986 | 0.200 MCL | 0.00986 | ug/L | | 10/15/21 1305 | 10/16/21 0022 | ALG |
| 1,2-Dibromoethane (Ethylene dibromide, EDB) | <0.00986 | 0.0500 MCL | 0.00986 | ug/L | | 10/15/21 1305 | 10/16/21 0022 | ALG |
| Surrogate: 2,4,5,6-Tetrachloro-m-xylene | 81.0 | Limit: 70-130 | | % Rec | | 10/15/21 1305 | 10/16/21 0022 | ALG |

| Herbicides by GC/ECD | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **Method: EPA 515.3, Rv. 1 (1996)** | | | | | | | | |
| 2,4-D | <0.100 | 70.0 MCL | 0.100 | ug/L | | 10/18/21 1327 | 10/18/21 2113 | ALG |
| Dalapon | <1.00 | 200 MCL | 1.00 | ug/L | | 10/18/21 1327 | 10/18/21 2113 | ALG |
| Dicamba | <0.100 | | 0.100 | ug/L | | 10/18/21 1327 | 10/18/21 2113 | ALG |
| Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP) | <0.200 | 7.00 MCL | 0.200 | ug/L | | 10/18/21 1327 | 10/18/21 2113 | ALG |
| Pentachlorophenol | <0.0400 | 1.00 MCL | 0.0400 | ug/L | | 10/18/21 1327 | 10/18/21 2113 | ALG |
| Picloram [2C] | <0.100 | 500 MCL | 0.100 | ug/L | | 10/18/21 1327 | 10/18/21 2113 | ALG |
| 2,4,5-TP (Silvex) | <0.200 | 50.0 MCL | 0.200 | ug/L | | 10/18/21 1327 | 10/18/21 2113 | ALG |
| Surrogate: 2,4-Dichloropenylacetic acid | 104 | Limit: 70-130 | | % Rec | | 10/18/21 1327 | 10/18/21 2113 | ALG |
| Surrogate: 2,4-Dichloropenylacetic acid [2C] | 102 | Limit: 70-130 | | % Rec | | 10/18/21 1327 | 10/18/21 2113 | ALG |

| Pesticides and Polychlorinated Biphenyls (PCBs) by GC/ECD | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **Method: EPA 505, Rv. 2.1 (1995)** | | | | | | | | |
| Chlordane (tech.) | <0.200 | 2.00 MCL | 0.200 | ug/L | | 10/15/21 1325 | 10/15/21 1739 | ALG |
| Dieldrin | <0.0200 | | 0.0200 | ug/L | | 10/15/21 1325 | 10/15/21 1739 | ALG |
| Endrin | <0.0100 | 2.00 MCL | 0.0100 | ug/L | | 10/15/21 1325 | 10/15/21 1739 | ALG |
| Toxaphene | <1.00 | 3.00 MCL | 1.00 | ug/L | | 10/15/21 1325 | 10/15/21 1739 | ALG |
| Aroclor-1016 (PCB-1016) | <0.0800 | | 0.0800 | ug/L | | 10/15/21 1325 | 10/15/21 1739 | ALG |
| Aroclor-1221 (PCB-1221) | <20.0 | | 20.0 | ug/L | | 10/15/21 1325 | 10/15/21 1739 | ALG |
| Aroclor-1232 (PCB-1232) | <0.500 | | 0.500 | ug/L | | 10/15/21 1325 | 10/15/21 1739 | ALG |
| Aroclor-1242 (PCB-1242) | <0.300 | | 0.300 | ug/L | | 10/15/21 1325 | 10/15/21 1739 | ALG |
| Aroclor-1248 (PCB-1248) | <0.100 | | 0.100 | ug/L | | 10/15/21 1325 | 10/15/21 1739 | ALG |
| Aroclor-1254 (PCB-1254) | <0.100 | | 0.100 | ug/L | | 10/15/21 1325 | 10/15/21 1739 | ALG |
| Aroclor-1260 (PCB-1260) | <0.100 | | 0.100 | ug/L | | 10/15/21 1325 | 10/15/21 1739 | ALG |
| Surrogate: 2,4,5,6-Tetrachloro-m-xylene | 123 | Limit: 70-130 | | % Rec | | 10/15/21 1325 | 10/15/21 1739 | ALG |

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Microbac Laboratories, Inc., Sayre Division

# CERTIFICATE OF ANALYSIS

## S1J0374

| | | | |
|---|---|---|---|
| **Client Sample ID:** | Filter Plant Entry Point | | |
| **Sample Matrix:** | Drinking Water | **Collected By:** | Rose Martino |
| **Lab Sample ID:** | S1J0374-01 | **Collection Date:** | 10/12/2021 7:30 |

| Pesticides and Polychlorinated Biphenyls (PCBs) by GC/ECD | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|

| Herbicides by HPLC | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **Method: EPA 531.2, Rv. 1 (2001)** | | | | | | | | |
| Aldicarb sulfoxide | <0.500 | | 0.500 | ug/L | | 10/21/21 0715 | 10/21/21 1701 | RSD |
| Aldicarb sulfone | <0.800 | | 0.800 | ug/L | | 10/21/21 0715 | 10/21/21 1701 | RSD |
| Oxamyl | <1.00 | 200 MCL | 1.00 | ug/L | | 10/21/21 0715 | 10/21/21 1701 | RSD |
| Methomyl (Lannate) | <0.500 | | 0.500 | ug/L | | 10/21/21 0715 | 10/21/21 1701 | RSD |
| 3-Hydroxycarbofuran | <0.500 | | 0.500 | ug/L | | 10/21/21 0715 | 10/21/21 1701 | RSD |
| Aldicarb (Temik) | <0.500 | | 0.500 | ug/L | | 10/21/21 0715 | 10/21/21 1701 | RSD |
| Carbofuran (Furaden) | <0.900 | 40.0 MCL | 0.900 | ug/L | | 10/21/21 0715 | 10/21/21 1701 | RSD |
| Carbaryl (Sevin) | <0.500 | | 0.500 | ug/L | | 10/21/21 0715 | 10/21/21 1701 | RSD |
| Surrogate: 4-Bromo-3,5-dimethylphenyl-N-methylcarbamate | 100 | Limit: 70-130 | | % Rec | | 10/21/21 0715 | 10/21/21 1701 | RSD |

| Semivolatile Organic Compounds by GCMS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **Method: EPA 525.2, Rv. 2 (1995)** | | | | | | | | |
| Alachlor | <0.200 | 2.00 MCL | 0.200 | ug/L | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| Aldrin | <0.100 | | 0.100 | ug/L | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| Atrazine | <0.100 | 3.00 MCL | 0.100 | ug/L | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| Benzo[a]pyrene | <0.020 | 0.200 MCL | 0.020 | ug/L | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| gamma-BHC (Lindane) | <0.020 | 0.200 MCL | 0.020 | ug/L | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| Butachlor | <0.100 | | 0.100 | ug/L | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| bis(2-Ethylhexyl)adipate | <0.600 | 400 MCL | 0.600 | ug/L | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| bis(2-Ethylhexyl)phthalate | <0.600 | 6.00 MCL | 0.600 | ug/L | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| Heptachlor | <0.040 | 0.400 MCL | 0.040 | ug/L | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| Heptachlor epoxide | <0.020 | 0.200 MCL | 0.020 | ug/L | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| Hexachlorobenzene | <0.100 | 1.00 MCL | 0.100 | ug/L | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| Hexachlorocyclopentadiene | <0.100 | 50.0 MCL | 0.100 | ug/L | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| Methoxychlor | <0.100 | 40.0 MCL | 0.100 | ug/L | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| Metolachlor | <0.100 | | 0.100 | ug/L | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| Metribuzin | <0.100 | | 0.100 | ug/L | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| Propachlor (Ramrod) | <0.100 | | 0.100 | ug/L | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| Simazine | <0.070 | 4.00 MCL | 0.070 | ug/L | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 93.0 | Limit: 70-130 | | % Rec | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| Surrogate: Pyrene-d10 | 103 | Limit: 70-130 | | % Rec | | 10/15/21 0900 | 10/19/21 0248 | GMP |
| Surrogate: Triphenyl phosphate | 106 | Limit: 70-130 | | % Rec | | 10/15/21 0900 | 10/19/21 0248 | GMP |

*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.*

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Microbac Laboratories, Inc., Sayre Division

# CERTIFICATE OF ANALYSIS

S1J0374

**Definitions**

| | |
|---|---|
| **MCL:** | US EPA Maximum Contaminant Level |
| **NYVOA:** | New York DOH Part 5 Public Water System MCLs |
| **RL:** | Reporting Limit |
| **ug/L:** | Micrograms per Liter |

**Project Requested Certification(s)**

Microbac Laboratories, Inc. - Dayville

11549 New York State Department of Health

**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.* ***The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.***

**Reviewed and Approved By:**

Renee Lantz

Customer Relationship Specialist

Reported: 10/28/2021 19:49

MICROBAC®

# Chain of Custody

## Microbac Laboratories, Inc., Sayre Division

Lab Manager: Renee Lantz

**S1J0374**

**TAT 7 days**

**Elmira Water Board**

Rose Martino
One Fountain Drive
Elmira, NY 14905
Phone: (607) 732-2277

**Project Name: SOCs**

Project/PO Number: N/A
Tenatively Scheduled: 10/8/2021
Route:

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**Client Sample ID:** **Filter Plant Entry Point**
**Lab Sample ID:** **S1J0374-01**
**Matrix:** **Drinking Water**
**Type:** **Grab**

**Sampled Date & Time:** 10/12/2021 7:30am RMN

| Analysis | Method | Field Results/Comments | Hold Time |
|---|---|---|---|
| 505 PEST PCB Group | NA | | 14.00 days |
| 515 Cl Acids | EPA 515.3, Rv. 1 (1996) | | 14.00 days |
| 531.2 Carbamates | EPA 531.2, Rv. 1 (2001) | | 28.00 days |
| 505 PCB | EPA 505, Rv. 2.1 (1995) | | 14.00 days |
| 505 PEST | EPA 505, Rv. 2.1 (1995) | | 14.00 days |
| 525 SVOC STD | EPA 525.2, Rv. 2 (1995) | | 14.00 days |
| 504.1 EDB DBCP | EPA 504.1, Rv. 1.1 (1995) | | 14.00 days |

| Container(s) | Designator |
|---|---|
| 40ml-Vial-Na2S2O3 | A |
| 40ml-Vial-Na2S2O3 | B |
| 40ml-Vial-Na2S2O3 | C |
| 40ml-Vial-Na2S2O3 | D |
| 250ml-Bottle Glass Amber-Na2S2O3 | E |
| 1L-Bottle Glass Amber-Na2SO3, HCL | F |
| 1L-Bottle Glass Amber-Na2SO3, HCL | G |
| 40ml-Vial Amber-Na2S2O3, KDHP | H |
| 40ml-Vial Amber-Na2S2O3, KDHP | I |
| 40ml-Vial Amber-Na2S2O3, KDHP | J |

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**Client Sample ID:** **504.1 Trip Blank**
**Lab Sample ID:** **S1J0374-02**
**Matrix:** **Drinking Water**
**Type:** **Trip Blank**

**Sampled Date & Time:** 10/12/2021 7:30am RMN

| Analysis | Method | Field Results/Comments | Hold Time |
|---|---|---|---|
| 504.1 EDB DBCP | EPA 504.1, Rv. 1.1 (1995) | | 14.00 days |

| Container(s) | Designator |
|---|---|
| 40ml-Vial-Na2S2O3 | A |

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# Chain of Custody

## Microbac Laboratories, Inc., Sayre Division

Lab Manager: Renee Lantz

S1J0374

**Elmira Water Board**

Rose Martino
One Fountain Drive
Elmira, NY 14905
Phone: (607) 732-2277

**Project Name: SOCs**

Project/PO Number: N/A
Tenatively Scheduled: 10/8/2021
Route:

| | | |
|---|---|---|
| Sampled/Relinquished by: | Date/Time: | Received by: |
| Printed Name: | | Printed Name: |
| Relinquished by: | Date/Time: 10/8/21 1615 | Received by: |
| Printed Name: JPALANZA | | Printed Name: |
| Relinquished by: | Date/Time: | Received by: |
| Printed Name: | | Printed Name: |

*As Received at Laboratory:* On Ice: Yes / No Temp: 4.3 °C Thermometer ID: 2044 Total Containers: 11.00

*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:**