



State of Tennessee

Department of Environment & Conservation

Division of Water Supply

Certifies That

**Microbac Laboratories, Inc.
Camp Hill Division**

*Having Met the Requirements of the Regulations for the
Certification of Laboratories Analyzing Drinking Water
is hereby Approved as a*

State Certified Laboratory in Chemistry

*To perform the Analyses as Indicated on the Certified Parameter List
For the Public Water Systems of Tennessee*

Laboratory ID Number TN02865 Effective through January 31, 2010

*Troy D. Taubert
Laboratory Certification Officer
Division of Water Supply*

*This certification is subject to performance on E.P.A. Performance
Evaluation Samples, laboratory inspections
and payment of annual fees.*

Certified Parameters - 2008

(Tennessee)

Microbac Laboratories, Inc. - Camp Hill

TN02865

EPA ID#PA00028

2/2/2009

Debra Musser
209 Senate Ave., Suite West 105
Camp Hill, PA 17011

| <u>Parameter</u> | <u>EPA Parameter #</u> | <u>Approved Method</u> | <u>Study Type</u> | <u>Date Complete</u> | <u>PT Provider / WS #</u> |
|------------------------------------|----------------------------|----------------------------|-------------------|--------------------------|---------------------------|
| Disinfection By-Products | | | | | |
| Bromide | 1004 | EPA - 300.0 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| DOC (dissolved organic carbon) | 2923 | SM - 5310 C | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| TOC (total organic carbon) | 2920 | SM - 5310 C | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| UV 254 Absorbance | 2922 | SM - 5910 B | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Total Haloacetic Acids(five)(HAA5) | 2456 | SM - 6251 B | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Total Trihalomethanes (TTHM) | 2950 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | 2110 | EPA - 515.3 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| 2,4-D | 2105 | EPA - 515.3 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Alachlor | 2051 | EPA - 525.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Alachlor | 2051 | EPA - 505 | Proficiency Test | 10/17/2008 | ERA / 09-16-08C |
| Atrazine | 2050 | EPA - 525.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Atrazine | 2050 | EPA - 505 | Proficiency Test | 10/17/2008 | ERA / 09-16-08C |
| Dalaphon | 2031 | EPA - 515.3 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Dinoseb | 2041 | EPA - 515.3 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Diquat | 2032 | EPA - 549.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Endothall | 2033 | EPA - 548 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Glyphosate | 2034 | EPA - 547 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Picloram | 2040 | EPA - 515.3 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Simazine | 2037 | EPA - 505 | Proficiency Test | 10/17/2008 | ERA / 09-16-08C |
| Organics | | | | | |
| Hexachlorocyclopentadiene | 2042 | EPA - 505 | Proficiency Test | 10/17/2008 | ERA / 09-16-08C |
| Hexachlorocyclopentadiene | 2042 | EPA - 525.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| DBCP (Dibromochloropropane) | 2931 | EPA - 504.1 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| EDB (Ethylene dibromide) | 2946 | EPA - 504.1 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| bis(2-ethylhexyl)adipate | 2035 | EPA - 525.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| bis(2-ethylhexyl)phthalate | 2039 | EPA - 525.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Pesticides | | | | | |
| Pentachlorophenol | 2326 | EPA - 515.3 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Carbofuran | 2046 | EPA - 531.1 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Chlordane | 2959 | EPA - 505 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Endrin | 2005 | EPA - 505 | Proficiency Test | 10/17/2008 | ERA / 09-16-08C |
| Endrin | 2005 | EPA - 525.2 | Proficiency Test | 10/17/2008 | ERA / 09-16-08C |
| Heptachlor | 2065 | EPA - 505 | Proficiency Test | 10/17/2008 | ERA / 09-16-08C |
| Heptachlor | 2065 | EPA - 525.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Heptachlor Epoxide | 2067 | EPA - 505 | Proficiency Test | 10/17/2008 | ERA / 09-16-08C |
| Heptachlor Epoxide | 2067 | EPA - 525.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Hexachlorobenzene | 2274 | EPA - 525.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Hexachlorobenzene | 2274 | EPA - 505 | Proficiency Test | 10/17/2008 | ERA / 09-16-08C |
| Lindane | 2010 | EPA - 525.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Lindane | 2010 | EPA - 505 | Proficiency Test | 10/17/2008 | ERA / 09-16-08C |
| Methoxychlor | 2015 | EPA - 525.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Methoxychlor | 2015 | EPA - 505 | Proficiency Test | 10/17/2008 | ERA / 09-16-08C |
| Oxamyl (Vydate) | 2036 | EPA - 531.1 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Simazine | 2037 | EPA - 525.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Toxaphene | 2020 | EPA - 505 | Proficiency Test | 8/21/2008 | ERA / WS-144 |

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|--------------------------------------|----------------------------|----------------------------|-------------------|--------------------------|---------------------------|
| VOCs - Regulated | | | | | |
| 1,1,1-Trichloroethane | 2981 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| 1,1,2-Trichloroethane | 2985 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| 1,1-Dichloroethylene | 2977 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| 1,2,4-Trichlorobenzene | 2378 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| 1,2-Dichlorobenzene | 2968 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| 1,2-Dichloroethane | 2980 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| 1,2-Dichloropropane | 2983 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| 1,4-Dichlorobenzene | 2969 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Benzene | 2990 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Carbon Tetrachloride | 2982 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Chlorobenzene | 2989 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| cis-1,2-Dichloroethylene | 2380 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Ethylbenzene | 2992 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Methylene chloride (dichloromethane) | 2964 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Styrene | 2996 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Tetrachloroethylene | 2987 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Toluene | 2991 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| trans-1,2-dichloroethylene | 2979 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Trichloroethylene | 2984 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Vinyl Chloride | 2976 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| Xylenes | 2955 | EPA - 524.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |
| VOCs - Synthetics | | | | | |
| Benzo(a)pyrene | 2306 | EPA - 525.2 | Proficiency Test | 8/21/2008 | ERA / WS-144 |