

ARIZONA DEPARTMENT  
OF HEALTH SERVICES

## ENVIRONMENTAL LABORATORY LICENSE

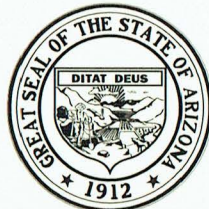
Issued to:

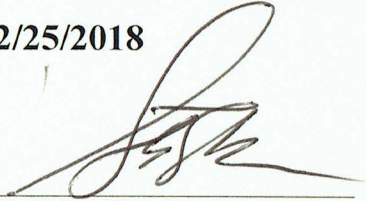
Laboratory Director: Leslie S. Bucina  
Owner/Representative: N. Cabot Earle, Jr.

*Microbac Laboratories, Inc. Ohio Valley Division*  
*AZ0723*

is in compliance with Environmental Laboratory's applicable standards for the State of Arizona and maintains on file a List of Parameters for which the laboratory is certified to perform analysis.

**PERIOD OF LICENSURE FROM: 02/25/2017 TO: 02/25/2018**



  
Steven D. Baker, Chief  
Office of Laboratory Licensure & Certification  
Bureau of State Laboratory Services

## Arizona Department Of Health Services Office of Laboratory Licensure and Certification

250 N.17th Avenue, Phoenix, Arizona 85007-3246

### SW

Parameter	EPA Method	Certified On
CHROMIUM, TOTAL	EPA 6010C	2/25/2008 12:00:00 AM
CYANIDE	EPA 9010C	4/28/2008 12:00:00 AM
TIN	EPA 6010C	2/25/2008 12:00:00 AM
TITANIUM	EPA 6010C	2/25/2008 12:00:00 AM
VANADIUM	EPA 6010C	2/25/2008 12:00:00 AM
ZINC	EPA 6010C	2/25/2008 12:00:00 AM
CORROSIVITY PH DETERMINATION	EPA 9040C	4/23/2008 12:00:00 AM
FLASH POINT BY PENSKEY MARTEMS CUP	EPA 1010A	4/23/2008 12:00:00 AM
BROMIDE	EPA 9056A	4/23/2008 12:00:00 AM
CHLORIDE	EPA 9056A	4/23/2008 12:00:00 AM
FLUORIDE	EPA 9056A	4/23/2008 12:00:00 AM
NITRATE	EPA 9056A	4/23/2008 12:00:00 AM
NITRITE	EPA 9056A	4/23/2008 12:00:00 AM
OIL AND GREASE AND PETROLEUM HYDROCARBONS	EPA 1664B	4/23/2008 12:00:00 AM
PH (HYDROGEN ION)	EPA 9045D	4/23/2008 12:00:00 AM
SULFATE	EPA 9056A	4/23/2008 12:00:00 AM
SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION	EPA 3510C	4/23/2008 12:00:00 AM
CONTINUOUS LIQUID-LIQUID EXTRACTION	EPA 3520C	4/23/2008 12:00:00 AM
SPE	EPA 3535A	4/23/2008 12:00:00 AM
PRESSURIZED FLUID EXTRACTION	EPA 3545A	4/23/2008 12:00:00 AM
ULTRASONIC EXTRACTION	EPA 3550C	4/23/2008 12:00:00 AM
WASTE DILUTION	EPA 3580A	4/23/2008 12:00:00 AM
FLORISIL CLEANUP	EPA 3620C	4/23/2008 12:00:00 AM
PURGE AND TRAP FOR AQUEOUS SAMPLES	EPA 5030C	4/23/2008 12:00:00 AM
CLOSED SYSTEM PURGE AND TRAP EXTRACT. VOCS	EPA 5035A	4/23/2008 12:00:00 AM
EDB AND DBCP BY MICROEXTRACTION AND GC	EPA 8011	4/23/2008 12:00:00 AM

## SW

Parameter	EPA Method	Certified On
NONHALOGENATED ORGANICS USING GC/FID	EPA 8015D	4/23/2008 12:00:00 AM
ORGANOCHLORINE PESTICIDES BY GC	EPA 8081B	4/23/2008 12:00:00 AM
PCBS BY GC	EPA 8082A	4/23/2008 12:00:00 AM
VOCs by GC/MS, INCLUDING N-HEXANE	EPA 8260B	4/23/2008 12:00:00 AM
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	EPA 8270C	4/23/2008 12:00:00 AM
NITROAROMATICS AND NITRAMINES BY HPLC	EPA 8330A	4/23/2008 12:00:00 AM
TOCS	EPA 9060A	4/23/2008 12:00:00 AM
NITROAROMATICS, NITRAMINES & NITRATE ESTERS	EPA 8330B	12/16/2008 12:00:00 AM
CHLORIN. HERBS BY GC METHYLATION	EPA 8151A	4/22/2009 12:00:00 AM
TCLP	EPA 1311	2/25/2008 12:00:00 AM
MICROWAVE ASSISTED DIGESTIONS	EPA 3015A	2/25/2008 12:00:00 AM
MICROWAVE ASSISTED DIGESTIONS	EPA 3051A	2/25/2008 12:00:00 AM
ALUMINUM	EPA 6010C	2/25/2008 12:00:00 AM
ANTIMONY	EPA 6010C	2/25/2008 12:00:00 AM
ARSENIC	EPA 6010C	2/25/2008 12:00:00 AM
BARIUM	EPA 6010C	2/25/2008 12:00:00 AM
BERYLLIUM	EPA 6010C	2/25/2008 12:00:00 AM
CALCIUM	EPA 6010C	2/25/2008 12:00:00 AM
CADMIUM	EPA 6010C	2/25/2008 12:00:00 AM
COBALT	EPA 6010C	2/25/2008 12:00:00 AM
COPPER	EPA 6010C	2/25/2008 12:00:00 AM
IRON	EPA 6010C	2/25/2008 12:00:00 AM
LEAD	EPA 6010C	2/25/2008 12:00:00 AM
LITHIUM	EPA 6010C	2/25/2008 12:00:00 AM
MAGNESIUM	EPA 6010C	2/25/2008 12:00:00 AM
MANGANESE	EPA 6010C	2/25/2008 12:00:00 AM
MERCURY	EPA 7470A	2/25/2008 12:00:00 AM
MERCURY	EPA 7471B	2/25/2008 12:00:00 AM
MOLYBDENUM	EPA 6010C	2/25/2008 12:00:00 AM
NICKEL	EPA 6010C	2/25/2008 12:00:00 AM

**SW**

Parameter	EPA Method	Certified On
POTASSIUM	EPA 6010C	2/25/2008 12:00:00 AM
SELENIUM	EPA 6010C	2/25/2008 12:00:00 AM
SILVER	EPA 6010C	2/25/2008 12:00:00 AM
SODIUM	EPA 6010C	2/25/2008 12:00:00 AM
STRONTIUM	EPA 6010C	2/25/2008 12:00:00 AM
THALLIUM	EPA 6010C	2/25/2008 12:00:00 AM
CYANIDE	EPA 9014	4/28/2008 12:00:00 AM
PERCHLORATE	EPA 6850	9/5/2013 12:00:00 AM
ANTIMONY	EPA 6020A	3/8/2017 2:58:44 PM
ARSENIC	EPA 6020A	3/8/2017 2:58:44 PM
BARIIUM	EPA 6020A	3/8/2017 2:58:45 PM
CADMIUM	EPA 6020A	3/8/2017 2:58:46 PM
CHROMIUM, TOTAL	EPA 6020A	3/8/2017 2:58:46 PM
COBALT	EPA 6020A	3/8/2017 2:58:47 PM
COPPER	EPA 6020A	3/8/2017 2:58:48 PM
LEAD	EPA 6020A	3/8/2017 2:58:48 PM
MANGANESE	EPA 6020A	3/8/2017 2:58:49 PM
NICKEL	EPA 6020A	3/8/2017 2:58:50 PM
SELENIUM	EPA 6020A	3/8/2017 2:58:50 PM
SILVER	EPA 6020A	3/8/2017 2:58:51 PM
THALLIUM	EPA 6020A	3/8/2017 2:58:52 PM
VANADIUM	EPA 6020A	3/8/2017 2:58:52 PM
ZINC	EPA 6020A	3/8/2017 2:58:53 PM
BORON	EPA 6010C	3/8/2017 2:58:53 PM
PHOSPHORUS	EPA 6010C	3/8/2017 2:58:54 PM
SILICA	EPA 6010C	3/8/2017 2:58:55 PM
MICROWAVE ASSISTED DIGESTIONS	3546	3/8/2017 2:58:55 PM

Total Count: 83

**WW**

Parameter	EPA Method	Certified On
ALKALINITY, TOTAL	EPA 310.2 (1974)	4/23/2008 12:00:00 AM
ORTHOPHOSPHATE	SM 4500-P E (2011)	4/23/2008 12:00:00 AM

3/8/2017 3:27:41 PM

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**WW**

Parameter	EPA Method	Certified On
PHOSPHORUS, TOTAL	EPA 365.4 (1974)	4/22/2009 12:00:00 AM
KJELDAHL, TOTAL NITROGEN	EPA 351.2 (2.0)	4/23/2008 12:00:00 AM

Total Count: 4

**Instrument**

Instrument	Instrument Code	Certified On
GAS CHROMATOGRAPH	GC	12/18/2013 12:00:00 AM
HIGH PERFORMANCE LIQUID CHROMATOGRAPH/MASS SPEC	HPLC/MS	12/18/2013 12:00:00 AM
GAS CHROMATOGRAPH/MASS SPECTROMETER	GC/MS	1/17/2012 12:00:00 AM
INDUCTIVELY COUPLED PLASMA/MASS SPECTROMETER	ICP/MS	2/9/2012 12:00:00 AM
HIGH PERFORMANCE LIQUID CHROMATOGRAPH	HPLC	3/11/2008 12:00:00 AM
ION CHROMATOGRAPH	IC	12/19/2014 12:00:00 AM
AUTOMATED AUTOANALYZER	AUTOANALYZER	12/19/2014 12:00:00 AM
INDUCTIVELY COUPLED PLASMA SPECTROMETER	ICP	12/18/2013 12:00:00 AM
MERCURY ANALYZER	MA	12/13/2007 12:00:00 AM

Total Count: 9

**Software**

Software Code	Certified On
PERKIN ELMER - ICP	12/13/2007 12:00:00 AM
TJA(THERMO JARREL ASH) - ICP	12/13/2007 12:00:00 AM
PERKIN ELMER - ICP/MS	2/9/2012 12:00:00 AM
LEMAN-HYDRA - MA	12/13/2007 12:00:00 AM
ENVIROQUANT/CHEMSTATION - GC	3/11/2008 12:00:00 AM
ENVIROQUANT/CHEMSTATION - GC/MS	3/11/2008 12:00:00 AM
HP CHEMSTATION-HPLC	3/11/2008 12:00:00 AM
SMACTCHEM - AUTO ANALYZER	3/11/2008 12:00:00 AM
OTHER - HPLC	1/17/2012 12:00:00 AM

Total Count: 9