



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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CHEMICAL

Valid To: August 31, 2020

Certificate Number: 4915.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on non-potable water, and soil/sediment in the analyte categories identified below:

Analyte Categories

Polycyclic Aromatic Hydrocarbons (PAH), Alkylated PAHs, Selected Biological Markers, Aliphatic Hydrocarbons, Total Petroleum Hydrocarbons (TPH), Extractable Organic Matter (EOM), % Moisture, Total Organic Carbon (TOC)

Testing Technologies

Analytical Methods used for Environmental and Geochemical Chemistry: Gas Chromatography, Gas Chromatography /Mass Spectrometry (Single Ion Monitoring), Gravimetry, % Carbon by Combustion/IR or Oxidation/IR

<u>Analyte</u>	<u>Test Method</u>	<u>Reference Method</u>
<u>Polycyclic Aromatic Hydrocarbons (semivolatiles-SVOC)</u>		
2,6-Dimethylnaphthalene	B&B SOP1006	EPA 8270D Mod.
2/3-Methyldibenzothiophene	B&B SOP1006	EPA 8270D Mod.
C4-Dibenzothiophenes	B&B SOP1006	EPA 8270D Mod.
Benz(a)anthracene	B&B SOP1006	EPA 8270D Mod.
Perylene	B&B SOP1006	EPA 8270D Mod.
1,6,7-Methylnaphthalene	B&B SOP1006	EPA 8270D Mod.
18a-Oleanane	B&B SOP1006	EPA 8270D Mod.
1-Methyldibenzothiophene	B&B SOP1006	EPA 8270D Mod.

Analyte	Test Method	Reference Method
1-Methylfluorene	B&B SOP1006	EPA 8270D Mod.
1-Methylnaphthalene	B&B SOP1006	EPA 8270D Mod.
1-Methylphenanthrene	B&B SOP1006	EPA 8270D Mod.
2-Methylantracene	B&B SOP1006	EPA 8270D Mod.
2-Methylfluoranthene	B&B SOP1006	EPA 8270D Mod.
2-Methylnaphthalene	B&B SOP1006	EPA 8270D Mod.
2-Methylphenanthrene	B&B SOP1006	EPA 8270D Mod.
3,6-Dimethylphenanthrene	B&B SOP1006	EPA 8270D Mod.
3-Methylphenanthrene	B&B SOP1006	EPA 8270D Mod.
4/9-Methylphenanthrene	B&B SOP1006	EPA 8270D Mod.
4-Methyldibenzothiophene	B&B SOP1006	EPA 8270D Mod.
Acenaphthene	B&B SOP1006	EPA 8270D Mod.
Acenaphthylene	B&B SOP1006	EPA 8270D Mod.
Anthracene	B&B SOP1006	EPA 8270D Mod.
Benzo(a)fluoranthene	B&B SOP1006	EPA 8270D Mod.
Benzo(a)pyrene	B&B SOP1006	EPA 8270D Mod.
Benzo(b)fluoranthene	B&B SOP1006	EPA 8270D Mod.
Benzo(b)fluorene	B&B SOP1006	EPA 8270D Mod.
Benzo(g,h,i)perylene	B&B SOP1006	EPA 8270D Mod.
Benzo(k,j)fluoranthene	B&B SOP1006	EPA 8270D Mod.
BenzoIpyrene	B&B SOP1006	EPA 8270D Mod.
Benzothiophene	B&B SOP1006	EPA 8270D Mod.
Biphenyl	B&B SOP1006	EPA 8270D Mod.
C1-Benzothiophenes	B&B SOP1006	EPA 8270D Mod.



Analyte	Test Method	Reference Method
C1-Chrysenes/Benzo(a)anthracenes	B&B SOP1006	EPA 8270D Mod.
C1-Decalins	B&B SOP1006	EPA 8270D Mod.
C1-Dibenzothiophenes	B&B SOP1006	EPA 8270D Mod.
C1-Fluoranthenes/pyrenes	B&B SOP1006	EPA 8270D Mod.
C1-Fluorenes	B&B SOP1006	EPA 8270D Mod.
C1-Naphthalenes	B&B SOP1006	EPA 8270D Mod.
C1-Naphthobenzothiophenes	B&B SOP1006	EPA 8270D Mod.
C1-Phenanthrenes/anthracenes	B&B SOP1006	EPA 8270D Mod.
C20-TAS	B&B SOP1006	EPA 8270D Mod.
C21-TAS	B&B SOP1006	EPA 8270D Mod.
C26(20R)/C27(20S)-TAS	B&B SOP1006	EPA 8270D Mod.
C26(20S)TAS	B&B SOP1006	EPA 8270D Mod.
C27(20R)-TAS	B&B SOP1006	EPA 8270D Mod.
C28(20R)-TAS	B&B SOP1006	EPA 8270D Mod.
C28(20S)-TAS	B&B SOP1006	EPA 8270D Mod.
C29-Hopane	B&B SOP1006	EPA 8270D Mod.
C2-Benzothiophenes	B&B SOP1006	EPA 8270D Mod.
C2-Chrysenes/Benzo(a)anthracenes	B&B SOP1006	EPA 8270D Mod.
C2-Decalins	B&B SOP1006	EPA 8270D Mod.
C2-Dibenzothiophenes	B&B SOP1006	EPA 8270D Mod.
C2-Fluoranthenes/pyrenes	B&B SOP1006	EPA 8270D Mod.
C2-Fluorenes	B&B SOP1006	EPA 8270D Mod.
C2-Naphthalenes	B&B SOP1006	EPA 8270D Mod.
C2-Naphthobenzothiophenes	B&B SOP1006	EPA 8270D Mod.



Analyte	Test Method	Reference Method
C2-Phenanthrenes/anthracenes	B&B SOP1006	EPA 8270D Mod.
C30-Hopane	B&B SOP1006	EPA 8270D Mod.
C3-Benzothiophenes	B&B SOP1006	EPA 8270D Mod.
C3-Chrysenes/Benzo(a)anthracenes	B&B SOP1006	EPA 8270D Mod.
C3-Decalins	B&B SOP1006	EPA 8270D Mod.
C3-Dibenzothiophenes	B&B SOP1006	EPA 8270D Mod.
C3-Fluoranthenes/pyrenes	B&B SOP1006	EPA 8270D Mod.
C3-Fluorenes	B&B SOP1006	EPA 8270D Mod.
C3-Naphthalenes	B&B SOP1006	EPA 8270D Mod.
C3-Naphthobenzothiophenes	B&B SOP1006	EPA 8270D Mod.
C3-Phenanthrenes/anthracenes	B&B SOP1006	EPA 8270D Mod.
C4-Benzothiophenes	B&B SOP1006	EPA 8270D Mod.
C4-Chrysenes/Benzo(a)anthracenes	B&B SOP1006	EPA 8270D Mod.
C4-Decalins	B&B SOP1006	EPA 8270D Mod.
C4-Fluoranthenes/pyrenes	B&B SOP1006	EPA 8270D Mod.
C4-Naphthalenes	B&B SOP1006	EPA 8270D Mod.
C4-Naphthobenzothiophenes	B&B SOP1006	EPA 8270D Mod.
C4-Phenanthrenes/anthracenes	B&B SOP1006	EPA 8270D Mod.
Carbazole	B&B SOP1006	EPA 8270D Mod.
Chrysene/Triphenylene	B&B SOP1006	EPA 8270D Mod.
cis/trans Decalin	B&B SOP1006	EPA 8270D Mod.
Dibenzo(a,h)anthracene	B&B SOP1006	EPA 8270D Mod.
Dibenzofuran	B&B SOP1006	EPA 8270D Mod.
Dibenzothiophene	B&B SOP1006	EPA 8270D Mod.



Analyte	Test Method	Reference Method
Fluoranthene	B&B SOP1006	EPA 8270D Mod.
Fluorene	B&B SOP1006	EPA 8270D Mod.
Indeno(1,2,3-cd)pyrene	B&B SOP1006	EPA 8270D Mod.
Naphthalene	B&B SOP1006	EPA 8270D Mod.
Naphthobenzothiophene	B&B SOP1006	EPA 8270D Mod.
Phenanthrene	B&B SOP1006	EPA 8270D Mod.
Pyrene	B&B SOP1006	EPA 8270D Mod.
Retene	B&B SOP1006	EPA 8270D Mod.
Aliphatic and TPH		
n-C34	B&B SOP1016	EPA 8015C Mod.
n-C40	B&B SOP1016	EPA 8015C Mod.
i-C13	B&B SOP1016	EPA 8015C Mod.
i-C14	B&B SOP1016	EPA 8015C Mod.
i-C15	B&B SOP1016	EPA 8015C Mod.
i-C16	B&B SOP1016	EPA 8015C Mod.
i-C18	B&B SOP1016	EPA 8015C Mod.
i-C19	B&B SOP1016	EPA 8015C Mod.
i-C20	B&B SOP1016	EPA 8015C Mod.
n-C10	B&B SOP1016	EPA 8015C Mod.
n-C11	B&B SOP1016	EPA 8015C Mod.
n-C12	B&B SOP1016	EPA 8015C Mod.
n-C13	B&B SOP1016	EPA 8015C Mod.
n-C14	B&B SOP1016	EPA 8015C Mod.
n-C15	B&B SOP1016	EPA 8015C Mod.



Analyte	Test Method	Reference Method
n-C16	B&B SOP1016	EPA 8015C Mod.
n-C17	B&B SOP1016	EPA 8015C Mod.
n-C18	B&B SOP1016	EPA 8015C Mod.
n-C19	B&B SOP1016	EPA 8015C Mod.
n-C20	B&B SOP1016	EPA 8015C Mod.
n-C21	B&B SOP1016	EPA 8015C Mod.
n-C22	B&B SOP1016	EPA 8015C Mod.
n-C23	B&B SOP1016	EPA 8015C Mod.
n-C24	B&B SOP1016	EPA 8015C Mod.
n-C25	B&B SOP1016	EPA 8015C Mod.
n-C26	B&B SOP1016	EPA 8015C Mod.
n-C27	B&B SOP1016	EPA 8015C Mod.
n-C28	B&B SOP1016	EPA 8015C Mod.
n-C29	B&B SOP1016	EPA 8015C Mod.
n-C30	B&B SOP1016	EPA 8015C Mod.
n-C31	B&B SOP1016	EPA 8015C Mod.
n-C32	B&B SOP1016	EPA 8015C Mod.
n-C33	B&B SOP1016	EPA 8015C Mod.
n-C35	B&B SOP1016	EPA 8015C Mod.
n-C36	B&B SOP1016	EPA 8015C Mod.
n-C37	B&B SOP1016	EPA 8015C Mod.
n-C38	B&B SOP1016	EPA 8015C Mod.
n-C39	B&B SOP1016	EPA 8015C Mod.
n-C9	B&B SOP1016	EPA 8015C Mod.



Analyte	Test Method	Reference Method
TPH	B&B SOP1016	EPA 8015C Mod.
TRH	B&B SOP1016	EPA 8015C Mod.
UCM	B&B SOP1016	EPA 8015C Mod.
<u>%Carbon</u>		
Total Organic Carbon	B&B SOP1005	Lloyd Kahn Method
Total Organic Carbon	B&B SOP1045	EPA 9060A Mod.
<u>Sample Preparation</u>		
% Moisture	B&B SOP1012	ASTM D2216-10 Mod
Alumina cleanup	B&B SOP1003 B&B SOP1011	EPA 3610B Mod.
Extractable Organic Matter	B&B SOP1055	NA
Pressurized fluid extraction (PFE)	B&B SOP1003	EPA 3545A Mod.
Separatory funnel extraction	B&B SOP1011	EPA 3510C Mod.
Silica gel cleanup	B&B SOP1003 B&B SOP1011	EPA 3630C Mod.
Sulfur cleanup	B&B SOP1003 B&B SOP1011	EPA 3660B Mod.



Accredited Laboratory

A2LA has accredited

TDI-BI/B&B LABORATORIES

College Station, TX

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 9th day of October 2018.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4915.01
Valid to August 31, 2020
Updated April 4, 2019

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.