



# CERTIFICATE OF ACCREDITATION

**ANSI-ASQ National Accreditation Board**  
500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that  
**Enthalpy Analytical, LLC**  
**2323 Fifth Street**  
**Berkeley CA 94710**

has been assessed by ANAB  
and meets the requirements of

**ISO/IEC 17025:2005 and DoD-ELAP**

while demonstrating technical competence in the field of

**TESTING**

Refer to the accompanying Scope of Accreditation for information regarding the types of tests to which this accreditation applies.

L-2442

Certificate Number

  
ANAB Approval

Certificate Valid: 06/29/2017-06/29/2020  
Issued: 06/29/2017



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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 January 2009).



# Scope of Accreditation For Enthalpy Analytical, LLC

2323 Fifth Street  
Berkeley CA 94710  
Teresa Morrison  
510-486-0900

In recognition of a successful assessment to ISO/IEC 17025:2005 and the requirements of the DoD Environmental Laboratory Accreditation Program as detailed in the DoD Quality Systems Manual for Environmental Laboratories (DoD QSM V5) based on the TNI Standard - Environmental Laboratory Sector, Volume 1 – Management and Technical Requirements for Laboratories Performing Environmental Analysis, Sept 2009 (EL-V1-2009); accreditation is granted to **Enthalpy Analytical, LLC** to perform the following tests:

Accreditation granted through: **June 29, 2020**

## Testing - Environmental

Non-Potable Water		
Technology	Method	Analyte
GC-FID	EPA 8015B/ 8015D	Gasoline Range Organics (GRO, TPH-G)
GC-FID	EPA 8015B/ 8015D	Diesel Range Organics (DRO, TPH-D)
GC-FID	RSK-175	Acetylene
GC-FID	RSK-175	Ethane
GC-FID	RSK-175	Ethene
GC-FID	RSK-175	Methane
GC-PID	EPA 8021B	MTBE
GC-PID	EPA 8021B	Benzene
GC-PID	EPA 8021B	Toluene
GC-PID	EPA 8021B	Ethylbenzene
GC-PID	EPA 8021B	m,p-Xylenes
GC-PID	EPA 8021B	o-Xylene
GC-ECD	EPA 8081A/ 8081B	Aldrin
GC-ECD	EPA 8081A/ 8081B	a-BHC
GC-ECD	EPA 8081A/ 8081B	b-BHC
GC-ECD	EPA 8081A/ 8081B	d-BHC
GC-ECD	EPA 8081A/ 8081B	g-BHC
GC-ECD	EPA 8081A/ 8081B	Chlordane (Technical)



Non-Potable Water		
Technology	Method	Analyte
GC-ECD	EPA 8081A/ 8081B	a-Chlordane
GC-ECD	EPA 8081A/ 8081B	g-Chlordane
GC-ECD	EPA 8081A/ 8081B	4,4'-DDD
GC-ECD	EPA 8081A/ 8081B	4,4'-DDE
GC-ECD	EPA 8081A/ 8081B	4,4'-DDT
GC-ECD	EPA 8081A/ 8081B	Dieldrin
GC-ECD	EPA 8081A/ 8081B	Endosulfan I
GC-ECD	EPA 8081A/ 8081B	Endosulfan II
GC-ECD	EPA 8081A/ 8081B	Endosulfan Sulfate
GC-ECD	EPA 8081A/ 8081B	Endrin
GC-ECD	EPA 8081A/ 8081B	Endrin Aldehyde
GC-ECD	EPA 8081A/ 8081B	Endrin Ketone
GC-ECD	EPA 8081A/ 8081B	Heptachlor
GC-ECD	EPA 8081A/ 8081B	Heptachlor Epoxide
GC-ECD	EPA 8081A/ 8081B	Methoxychlor
GC-ECD	EPA 8081A/ 8081B	Toxaphene
GC-ECD	EPA 8082/ 8082A	Arochlor 1016
GC-ECD	EPA 8082/ 8082A	Arochlor 1221
GC-ECD	EPA 8082/ 8082A	Arochlor 1232
GC-ECD	EPA 8082/ 8082A	Arochlor 1242
GC-ECD	EPA 8082/ 8082A	Arochlor 1248
GC-ECD	EPA 8082/ 8082A	Arochlor 1254
GC-ECD	EPA 8082/ 8082A	Arochlor 1260
GC-MS	EPA 8260B/ 8260C	1,1,1,2-Tetrachloroethane
GC-MS	EPA 8260B/ 8260C	1,1,1-Trichloroethane
GC-MS	EPA 8260B/ 8260C	1,1,2,2-Tetrachloroethane
GC-MS	EPA 8260B/ 8260C	1,1,2-Trichloroethane
GC-MS	EPA 8260B/ 8260C	1,1-Dichloroethane
GC-MS	EPA 8260B/ 8260C	1,1-Dichloroethene
GC-MS	EPA 8260B/ 8260C	1,1-Dichloropropene
GC-MS	EPA 8260B/ 8260C	1,2,3-Trichlorobenzene
GC-MS	EPA 8260B/ 8260C	1,2,3-Trichloropropane
GC-MS	EPA 8260B/ 8260C	1,2,4-Trichlorobenzene
GC-MS	EPA 8260B/ 8260C	1,2,4-Trimethylbenzene
GC-MS	EPA 8260B/ 8260C	1,2-Dibromo-3-Chloropropane
GC-MS	EPA 8260B/ 8260C	1,2-Dibromoethane
GC-MS	EPA 8260B/ 8260C	1,2-Dichlorobenzene
GC-MS	EPA 8260B/ 8260C	1,2-Dichloroethane
GC-MS	EPA 8260B/ 8260C	1,2-Dichloropropane



Non-Potable Water		
Technology	Method	Analyte
GC-MS	EPA 8260B/ 8260C	1,3,5-Trimethylbenzene
GC-MS	EPA 8260B/ 8260C	1,3-Dichlorobenzene
GC-MS	EPA 8260B/ 8260C	1,3-Dichloropropane
GC-MS	EPA 8260B/ 8260C	1,4-Dichlorobenzene
GC-MS	EPA 8260B/ 8260C	2,2-Dichloropropane
GC-MS	EPA 8260B/ 8260C	2-Butanone
GC-MS	EPA 8260B/ 8260C	2-Chlorotoluene
GC-MS	EPA 8260B/ 8260C	2-Hexanone
GC-MS	EPA 8260B/ 8260C	4-Chlorotoluene
GC-MS	EPA 8260B/ 8260C	4-Methyl-2-Pentanone
GC-MS	EPA 8260B/ 8260C	Acetone
GC-MS	EPA 8260B/ 8260C	Benzene
GC-MS	EPA 8260B/ 8260C	Bromobenzene
GC-MS	EPA 8260B/ 8260C	Bromochloromethane
GC-MS	EPA 8260B/ 8260C	Bromodichloromethane
GC-MS	EPA 8260B/ 8260C	Bromoform
GC-MS	EPA 8260B/ 8260C	Bromomethane
GC-MS	EPA 8260B/ 8260C	Carbon Disulfide
GC-MS	EPA 8260B/ 8260C	Carbon Tetrachloride
GC-MS	EPA 8260B/ 8260C	Chlorobenzene
GC-MS	EPA 8260B/ 8260C	Chloroethane
GC-MS	EPA 8260B/ 8260C	Chloroform
GC-MS	EPA 8260B/ 8260C	Chloromethane
GC-MS	EPA 8260B/ 8260C	cis-1,2-Dichloroethene
GC-MS	EPA 8260B/ 8260C	cis-1,3-Dichloropropene
GC-MS	EPA 8260B/ 8260C	Dibromochloromethane
GC-MS	EPA 8260B/ 8260C	Dibromomethane
GC-MS	EPA 8260B/ 8260C	Ethylbenzene
GC-MS	EPA 8260B/ 8260C	Ethyl tert-Butyl Ether (ETBE)
GC-MS	EPA 8260B/ 8260C	Freon 113
GC-MS	EPA 8260B/ 8260C	Freon 12
GC-MS	EPA 8260B/ 8260C	Hexachlorobutadiene
GC-MS	EPA 8260B/ 8260C	Isopropylbenzene
GC-MS	EPA 8260B/ 8260C	Isopropyl Ether (DIPE)
GC-MS	EPA 8260B/ 8260C	m,p-Xylenes
GC-MS	EPA 8260B/ 8260C	Methylene Chloride
GC-MS	EPA 8260B/ 8260C	Methyl tert-Amyl Ether (TAME)
GC-MS	EPA 8260B/ 8260C	Methyl tert-Butyl Ether (MTBE)
GC-MS	EPA 8260B/ 8260C	Naphthalene



Non-Potable Water		
Technology	Method	Analyte
GC-MS	EPA 8260B/ 8260C	n-Butylbenzene
GC-MS	EPA 8260B/ 8260C	o-Xylene
GC-MS	EPA 8260B/ 8260C	para-Isopropyl Toluene
GC-MS	EPA 8260B/ 8260C	Propylbenzene
GC-MS	EPA 8260B/ 8260C	sec-Butylbenzene
GC-MS	EPA 8260B/ 8260C	Styrene
GC-MS	EPA 8260B/ 8260C	tert-Butyl Alcohol (TBA)
GC-MS	EPA 8260B/ 8260C	tert-Butylbenzene
GC-MS	EPA 8260B/ 8260C	Tetrachloroethene
GC-MS	EPA 8260B/ 8260C	Toluene
GC-MS	EPA 8260B/ 8260C	trans-1,2-Dichloroethene
GC-MS	EPA 8260B/ 8260C	trans-1,3-Dichloropropene
GC-MS	EPA 8260B/ 8260C	Trichloroethene
GC-MS	EPA 8260B/ 8260C	Trichlorofluoromethane
GC-MS	EPA 8260B/ 8260C	Vinyl Acetate
GC-MS	EPA 8260B/ 8260C	Vinyl Chloride
GC-MS	EPA 8270C/ 8270D	1,2,4-Trichlorobenzene
GC-MS	EPA 8270C/ 8270D	1,2-Dichlorobenzene
GC-MS	EPA 8270C/ 8270D	1,3-Dichlorobenzene
GC-MS	EPA 8270C/ 8270D	1,4-Dichlorobenzene
GC-MS	EPA 8270C/ 8270D	2,4,5-Trichlorophenol
GC-MS	EPA 8270C/ 8270D	2,4,6-Trichlorophenol
GC-MS	EPA 8270C/ 8270D	2,4-Dichlorophenol
GC-MS	EPA 8270C/ 8270D	2,4-Dimethylphenol
GC-MS	EPA 8270C/ 8270D	2,4-Dinitrophenol
GC-MS	EPA 8270C/ 8270D	2,4-Dinitrotoluene
GC-MS	EPA 8270C/ 8270D	2,6-Dinitrotoluene
GC-MS	EPA 8270C/ 8270D	2-Chloronaphthalene
GC-MS	EPA 8270C/ 8270D	2-Chlorophenol
GC-MS	EPA 8270C/ 8270D	2-Methylnaphthalene
GC-MS	EPA 8270C/ 8270D	2-Methylphenol
GC-MS	EPA 8270C/ 8270D	2-Nitroaniline
GC-MS	EPA 8270C/ 8270D	2-Nitrophenol
GC-MS	EPA 8270C/ 8270D	3,3'-Dichlorobenzidine
GC-MS	EPA 8270C/ 8270D	3-Nitroaniline
GC-MS	EPA 8270C/ 8270D	4,6-Dinitro-2-methylphenol
GC-MS	EPA 8270C/ 8270D	4-Bromophenyl-phenylether
GC-MS	EPA 8270C/ 8270D	4-Chloro-3-methylphenol
GC-MS	EPA 8270C/ 8270D	4-Chloroaniline



Non-Potable Water		
Technology	Method	Analyte
GC-MS	EPA 8270C/ 8270D	4-Chlorophenyl-phenylether
GC-MS	EPA 8270C/ 8270D	4-Methylphenol
GC-MS	EPA 8270C/ 8270D	4-Nitroaniline
GC-MS	EPA 8270C/ 8270D	4-Nitrophenol
GC-MS	EPA 8270C/ 8270D	Acenaphthene
GC-MS	EPA 8270C/ 8270D	Acenaphthylene
GC-MS	EPA 8270C/ 8270D	Anthracene
GC-MS	EPA 8270C/ 8270D	Azobenzene
GC-MS	EPA 8270C/ 8270D	Benzo(a)anthracene
GC-MS	EPA 8270C/ 8270D	Benzo(a)pyrene
GC-MS	EPA 8270C/ 8270D	Benzo(b)fluoranthene
GC-MS	EPA 8270C/ 8270D	Benzo(g,h,i)perylene
GC-MS	EPA 8270C/ 8270D	Benzo(k)fluoranthene
GC-MS	EPA 8270C/ 8270D	Benzoic acid
GC-MS	EPA 8270C/ 8270D	Benzyl alcohol
GC-MS	EPA 8270C/ 8270D	bis(2-Chloroethoxy)methane
GC-MS	EPA 8270C/ 8270D	bis(2-Chloroethyl)ether
GC-MS	EPA 8270C/ 8270D	bis(2-Chloroisopropyl) ether
GC-MS	EPA 8270C/ 8270D	bis(2-Ethylhexyl)phthalate
GC-MS	EPA 8270C/ 8270D	Butylbenzylphthalate
GC-MS	EPA 8270C/ 8270D	Chrysene
GC-MS	EPA 8270C/ 8270D	Dibenz(a,h)anthracene
GC-MS	EPA 8270C/ 8270D	Dibenzofuran
GC-MS	EPA 8270C/ 8270D	Diethylphthalate
GC-MS	EPA 8270C/ 8270D	Dimethylphthalate
GC-MS	EPA 8270C/ 8270D	Di-n-butylphthalate
GC-MS	EPA 8270C/ 8270D	Di-n-octylphthalate
GC-MS	EPA 8270C/ 8270D	Fluoranthene
GC-MS	EPA 8270C/ 8270D	Fluorene
GC-MS	EPA 8270C/ 8270D	Hexachlorobenzene
GC-MS	EPA 8270C/ 8270D	Hexachlorobutadiene
GC-MS	EPA 8270C/ 8270D	Hexachlorocyclopentadiene
GC-MS	EPA 8270C/ 8270D	Hexachloroethane
GC-MS	EPA 8270C/ 8270D	Indeno(1,2,3-cd)pyrene
GC-MS	EPA 8270C/ 8270D	Isophorone
GC-MS	EPA 8270C/ 8270D	Naphthalene
GC-MS	EPA 8270C/ 8270D	Nitrobenzene
GC-MS	EPA 8270C/ 8270D	N-Nitrosodimethylamine
GC-MS	EPA 8270C/ 8270D	N-Nitroso-di-n-propylamine



Non-Potable Water		
Technology	Method	Analyte
GC-MS	EPA 8270C/ 8270D	N-Nitrosodiphenylamine
GC-MS	EPA 8270C/ 8270D	Pentachlorophenol
GC-MS	EPA 8270C/ 8270D	Phenanthrene
GC-MS	EPA 8270C/ 8270D	Phenol
GC-MS	EPA 8270C/ 8270D	Pyrene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	1,4-Dioxane
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Acenaphthylene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Acenaphthene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Anthracene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Benzo(a)anthracene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Benzo(a)pyrene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Benzo(b)fluoranthene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Benzo(g,h,i)perylene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Benzo(k)fluoranthene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Chrysene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Dibenz(a,h)anthracene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Fluoranthene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Fluorene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Indeno(1,2,3-cd)pyrene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	1-Methylnaphthalene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	2-Methylnaphthalene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Naphthalene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Phenanthrene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Pyrene
HPLC-UV	EPA 8330/ 8330A	2-Amino-4,6-dinitrotoluene



Non-Potable Water		
Technology	Method	Analyte
HPLC-UV	EPA 8330/ 8330A	4-Amino-2,6-dinitrotoluene
HPLC-UV	EPA 8330/ 8330A	3,5-Dinitroaniline
HPLC-UV	EPA 8330/ 8330A	1,3-Dinitrotoluene
HPLC-UV	EPA 8330/ 8330A	2,4-Dinitrotoluene
HPLC-UV	EPA 8330/ 8330A	2,6-Dinitrotoluene
HPLC-UV	EPA 8330/ 8330A	HMX
HPLC-UV	EPA 8330/ 8330A	RDX
HPLC-UV	EPA 8330/ 8330A	Nitroglycerine
HPLC-UV	EPA 8330/ 8330A	Nitrobenzene
HPLC-UV	EPA 8330/ 8330A	2-Nitrotoluene
HPLC-UV	EPA 8330/ 8330A	3-Nitrotoluene
HPLC-UV	EPA 8330/ 8330A	4-Nitrotoluene
HPLC-UV	EPA 8330/ 8330A	Pentaerythritol (PETN)
HPLC-UV	EPA 8330/ 8330A	RDX
HPLC-UV	EPA 8330/ 8330A	Tetryl
HPLC-UV	EPA 8330/ 8330A	1,3,5-Trinitrobenzene
HPLC-UV	EPA 8330/ 8330A	2,4,6-Trinitrotoluene
ICP-AES	EPA 6010B/ 6010C	Aluminum
ICP-AES	EPA 6010B/ 6010C	Antimony
ICP-AES	EPA 6010B/ 6010C	Arsenic
ICP-AES	EPA 6010B/ 6010C	Barium
ICP-AES	EPA 6010B/ 6010C	Beryllium
ICP-AES	EPA 6010B/ 6010C	Cadmium
ICP-AES	EPA 6010B/ 6010C	Calcium
ICP-AES	EPA 6010B/ 6010C	Chromium
ICP-AES	EPA 6010B/ 6010C	Cobalt
ICP-AES	EPA 6010B/ 6010C	Copper
ICP-AES	EPA 6010B/ 6010C	Iron
ICP-AES	EPA 6010B/ 6010C	Lead
ICP-AES	EPA 6010B/ 6010C	Magnesium
ICP-AES	EPA 6010B/ 6010C	Manganese
ICP-AES	EPA 6010B/ 6010C	Molybdenum
ICP-AES	EPA 6010B/ 6010C	Nickel
ICP-AES	EPA 6010B/ 6010C	Potassium
ICP-AES	EPA 6010B/ 6010C	Selenium
ICP-AES	EPA 6010B/ 6010C	Silver
ICP-AES	EPA 6010B/ 6010C	Sodium
ICP-AES	EPA 6010B/ 6010C	Thallium
ICP-AES	EPA 6010B/ 6010C	Vanadium





Non-Potable Water		
Technology	Method	Analyte
ICP-AES	EPA 6010B/ 6010C	Zinc
ICP-MS	EPA 6020/ 6020A	Aluminum
ICP-MS	EPA 6020/ 6020A	Antimony
ICP-MS	EPA 6020/ 6020A	Arsenic
ICP-MS	EPA 6020/ 6020A	Barium
ICP-MS	EPA 6020/ 6020A	Beryllium
ICP-MS	EPA 6020/ 6020A	Cadmium
ICP-MS	EPA 6020/ 6020A	Calcium
ICP-MS	EPA 6020/ 6020A	Chromium
ICP-MS	EPA 6020/ 6020A	Cobalt
ICP-MS	EPA 6020/ 6020A	Copper
ICP-MS	EPA 6020/ 6020A	Iron
ICP-MS	EPA 6020/ 6020A	Lead
ICP-MS	EPA 6020/ 6020A	Magnesium
ICP-MS	EPA 6020/ 6020A	Manganese
ICP-MS	EPA 6020/ 6020A	Molybdenum
ICP-MS	EPA 6020/ 6020A	Nickel
ICP-MS	EPA 6020/ 6020A	Potassium
ICP-MS	EPA 6020/ 6020A	Selenium
ICP-MS	EPA 6020/ 6020A	Silver
ICP-MS	EPA 6020/ 6020A	Sodium
ICP-MS	EPA 6020/ 6020A	Thallium
ICP-MS	EPA 6020/ 6020A	Vanadium
ICP-MS	EPA 6020/ 6020A	Zinc
CVAA	EPA 7470A	Mercury
Ion Chromatography	EPA 300.0 / 9056	Bromide
Ion Chromatography	EPA 300.0 / 9056	Chloride
Ion Chromatography	EPA 300.0 / 9056	Fluoride
Ion Chromatography	EPA 300.0 / 9056	Nitrate-N
Ion Chromatography	EPA 300.0 / 9056	Nitrite-N
Ion Chromatography	EPA 300.0 / 9056	Sulfate
Ion Chromatography	EPA 314	Perchlorate
Ion Chromatography	EPA 7199	Hexavalent Chromium
Ion Selective Electrode	SM 4500-NH3 D	Ammonia
Ion Selective Electrode	SM 5210B	Biochemical Oxygen Demand (BOD)
Ion Selective Electrode	EPA 9040B SM 4500-H +B	pH
Ion Selective Electrode	SM 2510B	Specific Conductance
UV-VIS Spectrometer	SM 5220D	Chemical Oxygen Demand (COD)



Non-Potable Water		
Technology	Method	Analyte
UV-VIS Spectrometer	SM 4500-CN E EPA 9010B/ 9014	Cyanide
UV-VIS Spectrometer	SM 4500-CN E EPA 9010B/ 9014	Cyanide, Amenable
UV-VIS Spectrometer	SM 3500-Fe B	Ferrous Iron
UV-VIS Spectrometer	EPA 7196A	Hexavalent Chromium
UV-VIS Spectrometer	SM 4500-P E	Total Phosphate-P
UV-VIS Spectrometer	SM 4500-S2 D	Sulfide
UV-VIS Spectrometer	SM 5310C	Total Organic Carbon (TOC)
Titration	SM 2320B	Alkalinity
Titration	SM 4500-NH3 C	Total Kjeldahl Nitrogen (TKN)
Gravimetric	SM 2540C	Total Dissolved Solids (TDS)
Gravimetric	SM 2540D	Total Suspended Solids (TSS)
Other	EPA 1010 ASTM D93	Flash Point
Preparation	Method	Analyte
Purge & Trap	EPA 5030B/ 5030C	Preparation for Volatiles
Extraction	EPA 3520C	Continuous Liquid-Liquid Extraction for Semivolatile Organics (DRO, BNA, PCB, Pesticides, SIM)
Extraction	EPA 3535	Solid Phase Extraction (for Nitroaromatics & Nitramines)
Digestion	EPA 200.8	Water Digestion for ICP-MS Metals
Digestion	EPA 3010A	Water Digestion for ICP Metals

Solid and Chemical Materials		
Technology	Method	Analyte
GC-FID	EPA 8015B/ 8015D	Gasoline Range Organics (GRO, TPH-G)
GC-FID	EPA 8015B/ 8015D	Diesel Range Organics (DRO, TPH-D)
GC-PID	EPA 8021B	MTBE
GC-PID	EPA 8021B	Benzene
GC-PID	EPA 8021B	Toluene
GC-PID	EPA 8021B	Ethylbenzene
GC-PID	EPA 8021B	m,p-Xylenes
GC-PID	EPA 8021B	o-Xylene
GC-ECD	EPA 8081A/ 8081B	Aldrin
GC-ECD	EPA 8081A/ 8081B	a-BHC
GC-ECD	EPA 8081A/ 8081B	b-BHC
GC-ECD	EPA 8081A/ 8081B	d-BHC
GC-ECD	EPA 8081A/ 8081B	g-BHC
GC-ECD	EPA 8081A/ 8081B	Chlordane (Technical)



Solid and Chemical Materials		
Technology	Method	Analyte
GC-ECD	EPA 8081A/ 8081B	a-Chlordane
GC-ECD	EPA 8081A/ 8081B	g-Chlordane
GC-ECD	EPA 8081A/ 8081B	4,4'-DDD
GC-ECD	EPA 8081A/ 8081B	4,4'-DDE
GC-ECD	EPA 8081A/ 8081B	4,4'-DDT
GC-ECD	EPA 8081A/ 8081B	Dieldrin
GC-ECD	EPA 8081A/ 8081B	Endosulfan I
GC-ECD	EPA 8081A/ 8081B	Endosulfan II
GC-ECD	EPA 8081A/ 8081B	Endosulfan Sulfate
GC-ECD	EPA 8081A/ 8081B	Endrin
GC-ECD	EPA 8081A/ 8081B	Endrin Aldehyde
GC-ECD	EPA 8081A/ 8081B	Endrin Ketone
GC-ECD	EPA 8081A/ 8081B	Heptachlor
GC-ECD	EPA 8081A/ 8081B	Heptachlor Epoxide
GC-ECD	EPA 8081A/ 8081B	Methoxychlor
GC-ECD	EPA 8081A/ 8081B	Toxaphene
GC-ECD	EPA 8082/ 8082A	Arochlor 1016
GC-ECD	EPA 8082/ 8082A	Arochlor 1221
GC-ECD	EPA 8082/ 8082A	Arochlor 1232
GC-ECD	EPA 8082/ 8082A	Arochlor 1242
GC-ECD	EPA 8082/ 8082A	Arochlor 1248
GC-ECD	EPA 8082/ 8082A	Arochlor 1254
GC-ECD	EPA 8082/ 8082A	Arochlor 1260
GC-MS	EPA 8260B/ 8260C	1,1,1,2-Tetrachloroethane
GC-MS	EPA 8260B/ 8260C	1,1,1-Trichloroethane
GC-MS	EPA 8260B/ 8260C	1,1,2,2-Tetrachloroethane
GC-MS	EPA 8260B/ 8260C	1,1,2-Trichloroethane
GC-MS	EPA 8260B/ 8260C	1,1-Dichloroethane
GC-MS	EPA 8260B/ 8260C	1,1-Dichloroethene
GC-MS	EPA 8260B/ 8260C	1,1-Dichloropropene
GC-MS	EPA 8260B/ 8260C	1,2,3-Trichlorobenzene
GC-MS	EPA 8260B/ 8260C	1,2,3-Trichloropropane
GC-MS	EPA 8260B/ 8260C	1,2,4-Trichlorobenzene
GC-MS	EPA 8260B/ 8260C	1,2,4-Trimethylbenzene
GC-MS	EPA 8260B/ 8260C	1,2-Dibromo-3-Chloropropane
GC-MS	EPA 8260B/ 8260C	1,2-Dibromoethane
GC-MS	EPA 8260B/ 8260C	1,2-Dichlorobenzene
GC-MS	EPA 8260B/ 8260C	1,2-Dichloroethane
GC-MS	EPA 8260B/ 8260C	1,2-Dichloropropane



Solid and Chemical Materials		
Technology	Method	Analyte
GC-MS	EPA 8260B/ 8260C	1,3,5-Trimethylbenzene
GC-MS	EPA 8260B/ 8260C	1,3-Dichlorobenzene
GC-MS	EPA 8260B/ 8260C	1,3-Dichloropropane
GC-MS	EPA 8260B/ 8260C	1,4-Dichlorobenzene
GC-MS	EPA 8260B/ 8260C	2,2-Dichloropropane
GC-MS	EPA 8260B/ 8260C	2-Butanone
GC-MS	EPA 8260B/ 8260C	2-Chlorotoluene
GC-MS	EPA 8260B/ 8260C	2-Hexanone
GC-MS	EPA 8260B/ 8260C	4-Chlorotoluene
GC-MS	EPA 8260B/ 8260C	4-Methyl-2-Pentanone
GC-MS	EPA 8260B/ 8260C	Acetone
GC-MS	EPA 8260B/ 8260C	Benzene
GC-MS	EPA 8260B/ 8260C	Bromobenzene
GC-MS	EPA 8260B/ 8260C	Bromochloromethane
GC-MS	EPA 8260B/ 8260C	Bromodichloromethane
GC-MS	EPA 8260B/ 8260C	Bromoform
GC-MS	EPA 8260B/ 8260C	Bromomethane
GC-MS	EPA 8260B/ 8260C	Carbon Disulfide
GC-MS	EPA 8260B/ 8260C	Carbon Tetrachloride
GC-MS	EPA 8260B/ 8260C	Chlorobenzene
GC-MS	EPA 8260B/ 8260C	Chloroethane
GC-MS	EPA 8260B/ 8260C	Chloroform
GC-MS	EPA 8260B/ 8260C	Chloromethane
GC-MS	EPA 8260B/ 8260C	cis-1,2-Dichloroethene
GC-MS	EPA 8260B/ 8260C	cis-1,3-Dichloropropene
GC-MS	EPA 8260B/ 8260C	Dibromochloromethane
GC-MS	EPA 8260B/ 8260C	Dibromomethane
GC-MS	EPA 8260B/ 8260C	Ethylbenzene
GC-MS	EPA 8260B/ 8260C	Ethyl tert-Butyl Ether (ETBE)
GC-MS	EPA 8260B/ 8260C	Freon 113
GC-MS	EPA 8260B/ 8260C	Freon 12
GC-MS	EPA 8260B/ 8260C	Hexachlorobutadiene
GC-MS	EPA 8260B/ 8260C	Isopropylbenzene
GC-MS	EPA 8260B/ 8260C	Isopropyl Ether (DIPE)
GC-MS	EPA 8260B/ 8260C	m,p-Xylenes
GC-MS	EPA 8260B/ 8260C	Methylene Chloride
GC-MS	EPA 8260B/ 8260C	Methyl tert-Amyl Ether (TAME)
GC-MS	EPA 8260B/ 8260C	Methyl tert-Butyl Ether (MTBE)
GC-MS	EPA 8260B/ 8260C	Naphthalene



Solid and Chemical Materials		
Technology	Method	Analyte
GC-MS	EPA 8260B/ 8260C	n-Butylbenzene
GC-MS	EPA 8260B/ 8260C	o-Xylene
GC-MS	EPA 8260B/ 8260C	para-Isopropyl Toluene
GC-MS	EPA 8260B/ 8260C	Propylbenzene
GC-MS	EPA 8260B/ 8260C	sec-Butylbenzene
GC-MS	EPA 8260B/ 8260C	Styrene
GC-MS	EPA 8260B/ 8260C	tert-Butyl Alcohol (TBA)
GC-MS	EPA 8260B/ 8260C	tert-Butylbenzene
GC-MS	EPA 8260B/ 8260C	Tetrachloroethene
GC-MS	EPA 8260B/ 8260C	Toluene
GC-MS	EPA 8260B/ 8260C	trans-1,2-Dichloroethene
GC-MS	EPA 8260B/ 8260C	trans-1,3-Dichloropropene
GC-MS	EPA 8260B/ 8260C	Trichloroethene
GC-MS	EPA 8260B/ 8260C	Trichlorofluoromethane
GC-MS	EPA 8260B/ 8260C	Vinyl Acetate
GC-MS	EPA 8260B/ 8260C	Vinyl Chloride
GC-MS	EPA 8270C/ 8270D	1,2,4-Trichlorobenzene
GC-MS	EPA 8270C/ 8270D	1,2-Dichlorobenzene
GC-MS	EPA 8270C/ 8270D	1,3-Dichlorobenzene
GC-MS	EPA 8270C/ 8270D	1,4-Dichlorobenzene
GC-MS	EPA 8270C/ 8270D	2,4,5-Trichlorophenol
GC-MS	EPA 8270C/ 8270D	2,4,6-Trichlorophenol
GC-MS	EPA 8270C/ 8270D	2,4-Dichlorophenol
GC-MS	EPA 8270C/ 8270D	2,4-Dimethylphenol
GC-MS	EPA 8270C/ 8270D	2,4-Dinitrophenol
GC-MS	EPA 8270C/ 8270D	2,4-Dinitrotoluene
GC-MS	EPA 8270C/ 8270D	2,6-Dinitrotoluene
GC-MS	EPA 8270C/ 8270D	2-Chloronaphthalene
GC-MS	EPA 8270C/ 8270D	2-Chlorophenol
GC-MS	EPA 8270C/ 8270D	2-Methylnaphthalene
GC-MS	EPA 8270C/ 8270D	2-Methylphenol
GC-MS	EPA 8270C/ 8270D	2-Nitroaniline
GC-MS	EPA 8270C/ 8270D	2-Nitrophenol
GC-MS	EPA 8270C/ 8270D	3,3'-Dichlorobenzidine
GC-MS	EPA 8270C/ 8270D	3-Nitroaniline
GC-MS	EPA 8270C/ 8270D	4,6-Dinitro-2-methylphenol
GC-MS	EPA 8270C/ 8270D	4-Bromophenyl-phenylether
GC-MS	EPA 8270C/ 8270D	4-Chloro-3-methylphenol
GC-MS	EPA 8270C/ 8270D	4-Chloroaniline



Solid and Chemical Materials		
Technology	Method	Analyte
GC-MS	EPA 8270C/ 8270D	4-Chlorophenyl-phenylether
GC-MS	EPA 8270C/ 8270D	4-Methylphenol
GC-MS	EPA 8270C/ 8270D	4-Nitroaniline
GC-MS	EPA 8270C/ 8270D	4-Nitrophenol
GC-MS	EPA 8270C/ 8270D	Acenaphthene
GC-MS	EPA 8270C/ 8270D	Acenaphthylene
GC-MS	EPA 8270C/ 8270D	Anthracene
GC-MS	EPA 8270C/ 8270D	Azobenzene
GC-MS	EPA 8270C/ 8270D	Benzo(a)anthracene
GC-MS	EPA 8270C/ 8270D	Benzo(a)pyrene
GC-MS	EPA 8270C/ 8270D	Benzo(b)fluoranthene
GC-MS	EPA 8270C/ 8270D	Benzo(g,h,i)perylene
GC-MS	EPA 8270C/ 8270D	Benzo(k)fluoranthene
GC-MS	EPA 8270C/ 8270D	Benzoic acid
GC-MS	EPA 8270C/ 8270D	Benzyl alcohol
GC-MS	EPA 8270C/ 8270D	bis(2-Chloroethoxy)methane
GC-MS	EPA 8270C/ 8270D	bis(2-Chloroethyl)ether
GC-MS	EPA 8270C/ 8270D	bis(2-Chloroisopropyl) ether
GC-MS	EPA 8270C/ 8270D	bis(2-Ethylhexyl)phthalate
GC-MS	EPA 8270C/ 8270D	Butylbenzylphthalate
GC-MS	EPA 8270C/ 8270D	Chrysene
GC-MS	EPA 8270C/ 8270D	Dibenz(a,h)anthracene
GC-MS	EPA 8270C/ 8270D	Dibenzofuran
GC-MS	EPA 8270C/ 8270D	Diethylphthalate
GC-MS	EPA 8270C/ 8270D	Dimethylphthalate
GC-MS	EPA 8270C/ 8270D	Di-n-butylphthalate
GC-MS	EPA 8270C/ 8270D	Di-n-octylphthalate
GC-MS	EPA 8270C/ 8270D	Fluoranthene
GC-MS	EPA 8270C/ 8270D	Fluorene
GC-MS	EPA 8270C/ 8270D	Hexachlorobenzene
GC-MS	EPA 8270C/ 8270D	Hexachlorobutadiene
GC-MS	EPA 8270C/ 8270D	Hexachlorocyclopentadiene
GC-MS	EPA 8270C/ 8270D	Hexachloroethane
GC-MS	EPA 8270C/ 8270D	Indeno(1,2,3-cd)pyrene
GC-MS	EPA 8270C/ 8270D	Isophorone
GC-MS	EPA 8270C/ 8270D	Naphthalene
GC-MS	EPA 8270C/ 8270D	Nitrobenzene
GC-MS	EPA 8270C/ 8270D	N-Nitrosodimethylamine
GC-MS	EPA 8270C/ 8270D	N-Nitroso-di-n-propylamine



Solid and Chemical Materials		
Technology	Method	Analyte
GC-MS	EPA 8270C/ 8270D	N-Nitrosodiphenylamine
GC-MS	EPA 8270C/ 8270D	Pentachlorophenol
GC-MS	EPA 8270C/ 8270D	Phenanthrene
GC-MS	EPA 8270C/ 8270D	Phenol
GC-MS	EPA 8270C/ 8270D	Pyrene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	1,4-Dioxane
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Acenaphthylene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Acenaphthene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Anthracene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Benzo(a)anthracene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Benzo(a)pyrene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Benzo(b)fluoranthene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Benzo(g,h,i)perylene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Benzo(k)fluoranthene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Chrysene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Dibenz(a,h)anthracene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Fluoranthene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Fluorene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Indeno(1,2,3-cd)pyrene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	1-Methylnaphthalene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	2-Methylnaphthalene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Naphthalene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Phenanthrene
GC-MS	EPA 8270C-SIM EPA 8270D-SIM	Pyrene



Solid and Chemical Materials		
Technology	Method	Analyte
HPLC-UV	EPA 8330 EPA 8330A MOD EPA 8330B MOD	2-Amino-4,6-dinitrotoluene
HPLC-UV	EPA 8330 EPA 8330A MOD EPA 8330B MOD	4-Amino-2,6-dinitrotoluene
HPLC-UV	EPA 8330 EPA 8330A MOD EPA 8330B MOD	3,5-Dinitroaniline
HPLC-UV	EPA 8330 EPA 8330A MOD EPA 8330B MOD	1,3-Dinitrotoluene
HPLC-UV	EPA 8330 EPA 8330A MOD EPA 8330B MOD	2,4-Dinitrotoluene
HPLC-UV	EPA 8330 EPA 8330A MOD EPA 8330B MOD	2,6-Dinitrotoluene
HPLC-UV	EPA 8330 EPA 8330A MOD EPA 8330B MOD	HMX
HPLC-UV	EPA 8330 EPA 8330A MOD EPA 8330B MOD	RDX
HPLC-UV	EPA 8330 EPA 8330A MOD EPA 8330B MOD	Nitroglycerine
HPLC-UV	EPA 8330 EPA 8330A MOD EPA 8330B MOD	Nitrobenzene
HPLC-UV	EPA 8330 EPA 8330A MOD EPA 8330B MOD	2-Nitrotoluene
HPLC-UV	EPA 8330 EPA 8330A MOD EPA 8330B MOD	3-Nitrotoluene
HPLC-UV	EPA 8330 EPA 8330A MOD EPA 8330B MOD	4-Nitrotoluene
HPLC-UV	EPA 8330 EPA 8330A MOD EPA 8330B MOD	Pentaerythritol (PETN)
HPLC-UV	EPA 8330 EPA 8330A MOD EPA 8330B MOD	RDX





Solid and Chemical Materials		
Technology	Method	Analyte
HPLC-UV	EPA 8330 EPA 8330A MOD EPA 8330B MOD	Tetryl
HPLC-UV	EPA 8330 EPA 8330A MOD EPA 8330B MOD	1,3,5-Trinitrobenzene
HPLC-UV	EPA 8330 EPA 8330A MOD EPA 8330B MOD	2,4,6-Trinitrotoluene
ICP-AES	EPA 6010B/ 6010C	Aluminum
ICP-AES	EPA 6010B/ 6010C	Antimony
ICP-AES	EPA 6010B/ 6010C	Arsenic
ICP-AES	EPA 6010B/ 6010C	Barium
ICP-AES	EPA 6010B/ 6010C	Beryllium
ICP-AES	EPA 6010B/ 6010C	Cadmium
ICP-AES	EPA 6010B/ 6010C	Calcium
ICP-AES	EPA 6010B/ 6010C	Chromium
ICP-AES	EPA 6010B/ 6010C	Cobalt
ICP-AES	EPA 6010B/ 6010C	Copper
ICP-AES	EPA 6010B/ 6010C	Iron
ICP-AES	EPA 6010B/ 6010C	Lead
ICP-AES	EPA 6010B/ 6010C	Magnesium
ICP-AES	EPA 6010B/ 6010C	Manganese
ICP-AES	EPA 6010B/ 6010C	Molybdenum
ICP-AES	EPA 6010B/ 6010C	Nickel
ICP-AES	EPA 6010B/ 6010C	Potassium
ICP-AES	EPA 6010B/ 6010C	Selenium
ICP-AES	EPA 6010B/ 6010C	Silver
ICP-AES	EPA 6010B/ 6010C	Sodium
ICP-AES	EPA 6010B/ 6010C	Thallium
ICP-AES	EPA 6010B/ 6010C	Vanadium
ICP-AES	EPA 6010B/ 6010C	Zinc
ICP-MS	EPA 6020/ 6020A	Aluminum
ICP-MS	EPA 6020/ 6020A	Antimony
ICP-MS	EPA 6020/ 6020A	Arsenic
ICP-MS	EPA 6020/ 6020A	Barium
ICP-MS	EPA 6020/ 6020A	Beryllium
ICP-MS	EPA 6020/ 6020A	Cadmium
ICP-MS	EPA 6020/ 6020A	Calcium
ICP-MS	EPA 6020/ 6020A	Chromium
ICP-MS	EPA 6020/ 6020A	Cobalt



Solid and Chemical Materials		
Technology	Method	Analyte
ICP-MS	EPA 6020/ 6020A	Copper
ICP-MS	EPA 6020/ 6020A	Iron
ICP-MS	EPA 6020/ 6020A	Lead
ICP-MS	EPA 6020/ 6020A	Magnesium
ICP-MS	EPA 6020/ 6020A	Manganese
ICP-MS	EPA 6020/ 6020A	Molybdenum
ICP-MS	EPA 6020/ 6020A	Nickel
ICP-MS	EPA 6020/ 6020A	Potassium
ICP-MS	EPA 6020/ 6020A	Selenium
ICP-MS	EPA 6020/ 6020A	Silver
ICP-MS	EPA 6020/ 6020A	Sodium
ICP-MS	EPA 6020/ 6020A	Thallium
ICP-MS	EPA 6020/ 6020A	Vanadium
ICP-MS	EPA 6020/ 6020A	Zinc
CVAA	EPA 7471A/ 7471B	Mercury
Ion Chromatography	EPA 300.0 / 9056	Bromide
Ion Chromatography	EPA 300.0 / 9056	Chloride
Ion Chromatography	EPA 300.0 / 9056	Fluoride
Ion Chromatography	EPA 300.0 / 9056	Nitrate-N
Ion Chromatography	EPA 300.0 / 9056	Nitrite-N
Ion Chromatography	EPA 300.0 / 9056	Sulfate
Ion Selective Electrode	SM 4500-NH3 D	Ammonia
Ion Selective Electrode	EPA 9045C	pH
UV-VIS Spectrometer	SM 4500-CN E EPA 9010B/ 9014	Cyanide
UV-VIS Spectrometer	EPA 7196A	Hexavalent Chromium
Titration	EPA 9034	Sulfide
Preparation	Method	Analyte
Purge & Trap	EPA 5035/ 5035A	Preparation for Volatiles in Soil
Extraction	EPA 3550B/ 3550C	Sonication Extraction for Semivolatile Organics (DRO, BNA, PCB, Pesticides, SIM)
Extraction	EPA 8330/ 8330A	Extraction of Nitroaromatics & Nitramines from Solids
Digestion	EPA 3060	Alkaline Digestion for Hexavalent Chromium
Digestion	EPA 3050B	Soil Digestion for ICP & ICP-MS Metals
Leaching Procedure	EPA 1311	TCLP – Toxicity Characteristic Leaching Procedure
Leaching Procedure	EPA 1312	SPLP – Synthetic Precipitation Leaching Procedure




Air and Emissions		
Technology	Method	Analyte
GC-TCD	ASTM D1946-90	Carbon Dioxide
GC-TCD	ASTM D1946-90	Carbon Monoxide
GC-TCD	ASTM D1946-90	Helium
GC-TCD	ASTM D1946-90	Hydrogen
GC-TCD	ASTM D1946-90	Methane
GC-TCD	ASTM D1946-90	Nitrogen
GC-TCD	ASTM D1946-90	Oxygen
GC-MS	TO-15	1,1,1-Trichloroethane
GC-MS	TO-15	1,1,2,2-Tetrachloroethane
GC-MS	TO-15	1,1,2-Trichloroethane
GC-MS	TO-15	1,1-Dichloroethane
GC-MS	TO-15	1,1-Dichloroethene
GC-MS	TO-15	1,2,4-Trichlorobenzene
GC-MS	TO-15	1,2,4-Trimethylbenzene
GC-MS	TO-15	1,2-Dibromoethane
GC-MS	TO-15	1,2-Dichlorobenzene
GC-MS	TO-15	1,2-Dichloroethane
GC-MS	TO-15	1,2-Dichloropropane
GC-MS	TO-15	1,3,5-Trimethylbenzene
GC-MS	TO-15	1,3-Butadiene
GC-MS	TO-15	1,3-Dichlorobenzene
GC-MS	TO-15	1,4-Dichlorobenzene
GC-MS	TO-15	2-Butanone
GC-MS	TO-15	2-Hexanone
GC-MS	TO-15	4-Ethyltoluene
GC-MS	TO-15	4-Methyl-2-Pentanone
GC-MS	TO-15	Acetone
GC-MS	TO-15	Acrolein
GC-MS	TO-15	Benzene
GC-MS	TO-15	Benzyl chloride
GC-MS	TO-15	Bromodichloromethane
GC-MS	TO-15	Bromoform
GC-MS	TO-15	Bromomethane
GC-MS	TO-15	Carbon Disulfide
GC-MS	TO-15	Carbon Tetrachloride
GC-MS	TO-15	Chlorobenzene
GC-MS	TO-15	Chloroethane
GC-MS	TO-15	Chloroform
GC-MS	TO-15	Chloromethane
GC-MS	TO-15	cis-1,2-Dichloroethene
GC-MS	TO-15	cis-1,3-Dichloropropene
GC-MS	TO-15	Cyclohexane
GC-MS	TO-15	Dibromochloromethane
GC-MS	TO-15	Ethyl Acetate
GC-MS	TO-15	Ethylbenzene

Air and Emissions		
Technology	Method	Analyte
GC-MS	TO-15	Freon 113
GC-MS	TO-15	Freon 114
GC-MS	TO-15	Freon 12
GC-MS	TO-15	Hexachlorobutadiene
GC-MS	TO-15	m,p-Xylenes
GC-MS	TO-15	Methylene Chloride
GC-MS	TO-15	MTBE
GC-MS	TO-15	Naphthalene
GC-MS	TO-15	n-Heptane
GC-MS	TO-15	n-Hexane
GC-MS	TO-15	o-Xylene
GC-MS	TO-15	Propylene
GC-MS	TO-15	Styrene
GC-MS	TO-15	Tetrachloroethene
GC-MS	TO-15	Tetrahydrofuran
GC-MS	TO-15	Toluene
GC-MS	TO-15	trans-1,2-Dichloroethene
GC-MS	TO-15	trans-1,3-Dichloropropene
GC-MS	TO-15	Trichloroethene
GC-MS	TO-15	Trichlorofluoromethane
GC-MS	TO-15	Vinyl Acetate
GC-MS	TO-15	Vinyl Chloride

Notes:

- 1) This laboratory offers commercial testing service.
- 2) This scope is formatted as part of a single document including Certificate of Accreditation No. L2442



Vice President

