



Our Capabilities



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Corporate Profile

Envirolab's strength lies in the delivery of quality results and a rapid turnaround that can be customised to your scientific testing requirements.

Envirolab Group is the largest Australian owned and privately operating environment laboratory in Australia. Operating under the brands, Envirolab Services and MPL Laboratories, we are committed to providing clients with a rapid turnaround and quality customer service for scientific testing of environment contamination.

Test methods and internal procedures of all Envirolab laboratories are compliant with Australian standards and regulations. We take pride in being accredited by industry authorities including the National Association of Testing Authorities (**NATA**) for a range of tests.

Some of our **testing capabilities** include soil, water, air and occupational hygiene samples for a range of organics, inorganics, microbiological, and forensic toxicology analysis. Our team can assist you to make informed decisions based on a suite of testing services available for identifying the presence of asbestos, leachate analysis and acid sulfate soils.

For **emerging contaminants**, we test for Perfluorinated Alkylated Substances (PFAS), methamphetamine residue left by clandestine labs and various other environmental residues and contaminants as required by the needs of your brief. Our Quarantined Approved Premises in Sydney and Perth hold a permit to import waters and soils from all countries.



Great Science. Great Service.

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Summary of Capabilities

Logistics Support

From start to finish, Envirolab identifies and provides scientific testing solutions that meet unique specifications. By working closely with clients, our team will establish the necessary procedures for an efficient and effective analytical service.

Some of these procedures include:

Reporting Limits
The entry of data, including reporting limits ensures consistency of analysis for ongoing sample batches.

Report Formatting
From performing test runs and ongoing adjustment, we work with our clients to establish a standard report format. Where required, this also allows for the automatic upload of all analytical data into the site database.

Bottles / Jars
Based on our client needs, we determine sample material and volume requirements for bottles, jars and eskies. We then work with our clients to implement a scheduled program for deliveries where, if appropriate, bottles can also be packed into sets to save sorting on-site.

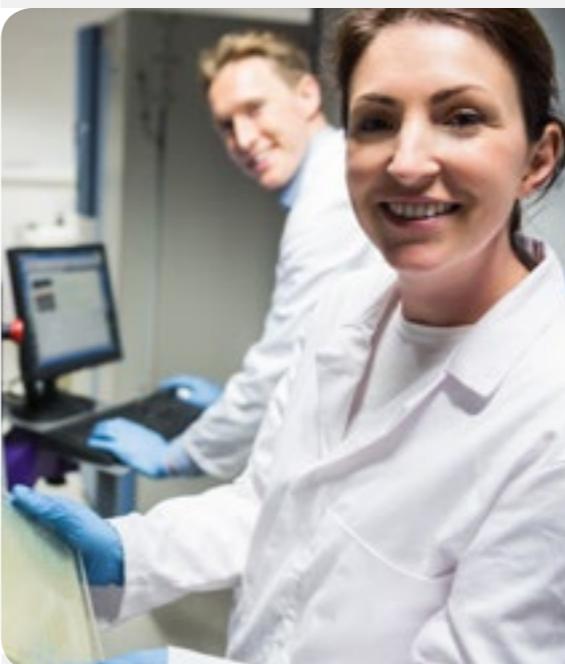
Timeliness of Deliveries
Deliveries of bottles, jars and eskies are normally scheduled the month before the analysis of samples is scheduled.
The timeline for delivery is also confirmed with our client prior to commencement, so adequate stocks of required items on-site is assured. Additional items or stocks can also be sent up at any time on request.

Interim Reports
To obtain selected analytical data as soon as available and ahead of the other results (e.g. microbiological ahead of chemical), interim reports can be issued at no extra charge. These can also be requested on an ongoing basis or specifically on each Chain of Custody form.

Online Results
Results can also be easily accessed as they become available, ahead of report generation, through our innovative and easy-to-use online portal.



Technical Support



Apart from personalised service and fast turnarounds, Envirolab takes pride in providing technical support.

Our wide range of analytical in-house services and sample matrices provide an ideal *one-stop shop* across a number of client departments and consultancy areas.

At an operational level, we maintain a high ratio of senior and experienced staff to assist clients with all manner of technical queries at any time. All senior staff are readily contactable by phone and email and will respond to queries promptly at all times.

Our staff focused culture has also resulted in a very low turnover, so you can be confident that you will be working with the same team.



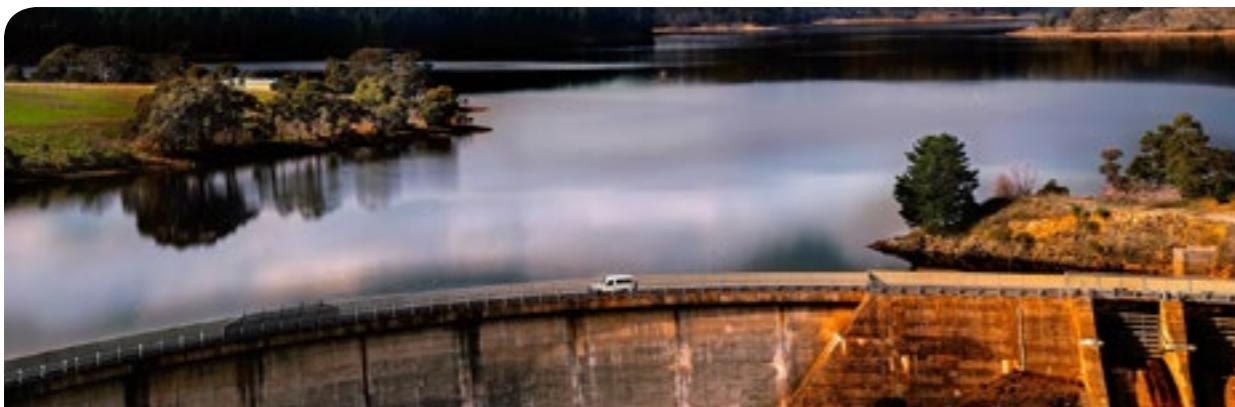
Innovation

Envirolab invests in equipment and resources for the introduction of new analytical methods, while also ensuring that technologies already in use are the most current on the market.

PCR instrumentation was purchased in 2014 for performing in-house speciation of Naegleria (a key requirement for amoebae analysis in water samples). Our laboratory in Perth is the **ONLY laboratory** in Western Australia with this capability and only one of two laboratories in Australia.

Envirolab is also equipped with three Inductively Coupled Plasma Mass Spectrometers with Octopole Reaction Cells (ORC-ICP-MS). These instruments are used for determining low level elements in a diverse range of sample matrices and for the determination of bioavailable elements. They are particularly useful for detection of low level, interference free, metals in saline waters.

Envirolab Group is continually looking for new and emerging contaminants to be added onto our analytical scope. As such, our array of instrumentation includes a GC/QQQ and an LC-MS/MS which are used both in routine analyses as well as for project-specific analyses including nicotine, Trenbolone, Prozac, ureas and PFAS compounds.



Acid Sulfate Soils

Acid Sulfate Soils
SPOCAS
pH KCl
TAA
KCl extractable S, Ca, Mg
pHox
TPA
Peroxide extractable S, Ca, Mg
ANCe (Excess Neutralisation capacity)
SNAS (Retained acidity)



Turnaround Time

We offer a standard 5 working day TAT for SPOCAS or SCr Suite analysis.



Sampling

A minimum of 200g should be collected in zip-lock bags to minimise contact with air. Large shells, wood, charcoal and stones should be removed in the field, but biological remnants such as roots should not be removed.

Samples should be kept cold in the field and should reach the lab within 24 hours of collection. Where this is not possible, they should be either frozen or dried at 85°C to extend holding time.

SPOCAS
pH KCl
TAA
KCl extractable S, Ca, Mg
pH _{ox}
TPA
Peroxide extractable S, Ca, Mg
ANCe (Excess Neutralisation capacity)
SNAS (Retained acidity)

Chromium Reducible Sulfur
SCr
pH KCl
TAA
If pH:
<4.5 - SNAS performed
>6.5 - ANC performed

Field Test
pHF
pHFOX
Reaction Rate



The effects of acid sulfate

soil and sediment



Acid Mine Drainage

pH Paste (1:2)
EC Paste (1:2)
Total Sulphur
Sulphate Sulphur
Sulphide Sulphur
Acid Soluble Sulphur (SHCl) - 4M HCl extraction
Total Oxidisable Sulphur (TOS)
Total Carbon
TOC (by CS Analyser)
Total Inorganic Carbon
NAG including NAG pH
NAG - Extended Boil
NAG Sequential / per stage
NAG Kinetic
ANC
Acid Buffering Characteristic Curves (ABCC)
APP/MPA (requires also Total S determination - see above)
NAPP (ABA Package) (Includes ANC, APP, Total S)
Column Leaching (Free Draining)
Metals by 4 acid digest and ICP scan
Basic AMD Suite: Sample Prep, EC (1:2), pH (1:2), NAG and NAG pH, NAPP (including ANC and Total S)



Asbestos

Soil or dust (up to 100g sample)
Soil - Clay based (East Coast NEPM)
Soil - Sandy (WA Dept Health)



Agricultural

Cation Exchange Capacity (CEC) - NH ₄ Cl
Cation Exchange Capacity (CEC) - NH ₄ Cl and ESP
DTPA or EDTA or Mehlich3 Extractable Metals
Exchangeable Sodium Percent (ESP - includes CEC)
P Sorption Capacity
P Buffer Index (PBI)
P Retention Index (PRI)
P Colwell
P Bray
Emerson Aggregate Test
Sodium Absorption Ratio (SAR)



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Inorganics and Metals

Physical
Compositing
Moisture
Aggressivity: Cl, SO4, pH, EC, Resistivity
Clay Content
Conductivity (1:5 water soluble)
Electrical Conductivity (EC)
Loss on Ignition (LOI)
pH (1:5 soil:water)
pH (1:2 soil:water)
pH (CaCl2 extraction)
pHF
pHFOX
Resistivity (Current)
Resistivity (Calc.)
Salinity
Texture
Texture/Salinity Classification
Alkalinity
Acidity - 1:5 water soluble
Alkalinity - 1:5 water soluble
Acidity + Alkalinity - 1:5 water soluble
Carbonates (estimate)
Anions
Bromide (Br) – 1:5 water soluble
Bromine and/or Iodine
Chloride (Cl) – 1:5 water soluble
Chloride (Cl) – total (mainly concrete)
Fluoride – total by fusion
Fluoride – 1:5 water soluble
Iodide - water soluble
Sulphate (SO4) – water soluble
Carbon / Organic matter
Total Organic Carbon (TOC)/Total Organic Matter (TOM) by titration (Walkley Black)
Total Organic Carbon (TOC) / Total Organic Matter (TOM) by combustion (sediments)
Total Carbon
Cyanides
Cyanide- Total
Cyanide - Free
Cyanide - Weak Acid Dissociable (WAD)
Cyanide Amenable (Amenable to Chlorination - labile)

Cyanide Amenable (Amenable to Chlorination - labile)
Foreign Matter
Foreign Matter - ENM (Rubber, plastic, bitumen, paper, cloth, paint, wood)
Foreign Matter - Aggregates (Rubber, plastic, paper, cloth, paint, wood, other vegetable matter)
Foreign Matter - Railway Ballast
Foreign Matter - Fines (glass, metal, rigid plastic, light flexible film) + Sieving (proportion retained on sieves 0.425, 9.5 & 26.5mm)
Nutrients
Ammonia (1:5) as N - water or KCl extraction
Nitrate as N – water soluble
Nitrite as N – water soluble
NOX - water soluble
Organic N (TKN - NH3)
Inorganic N (NOX + NH3)
Total Kjeldahl Nitrogen (TKN)
Total Nitrogen - TKN+ NOx
Total Nitrogen - TKN + NO2 + NO3
Phosphate (PO4) as P – water soluble
Phosphate Sorption Index (PSI)
Particle Sizing (PSD)
Clay only (i.e. <2µm) Hydrometer
Particle Size Distribution - Sieving only (75mm - 75µm)
Particle Size Distribution - Hydrometer only (75-20µm, <20-2µm, <2µm (Clay fraction))
Particle Size Distribution - Sieving and Hydrometer (as above)
RTA - Sieving (proportion retained on sieves 0.475, 9.5 & 26.5mm)
Sulphur forms
Acid Volatile Sulphur (AVS)
SEM (Simultaneous Extractable Metals)
Sulphate (SO4) – water soluble
Sulphide (Pres/Abs)
Sulphide - Total (NEPM, B3 section 9.4 - acid soluble and insoluble)
TOS - Total Oxidisable Sulfur
Miscellaneous
MBAS (Surfactants) water soluble
Oxidant Demand (NOD/SOD) includes residual persulfate over 1-4 time periods with buffer capacity
Sugar in soil/concrete

Our specialist experience and modern instrumentation can help you to identify absolute trace levels of inorganic elements

Metals	
Aluminium	Strontium
Antimony	Sulphur
Arsenic	Tantalum
Barium	Tellurium
Beryllium	Terbium
Bismuth	Thallium
Boron	Thorium
Cadmium	Thulium
Caesium	Tin
Cerium	Titanium
Chromium	Tungsten
Cobalt	Uranium
Copper	Vanadium
Dysprosium	Ytterbium
Erbium	Yttrium
Europium	Zirconium
Gadolinium	Zinc
Gallium	
Germanium	
Gold	
Hafnium	
Holmium	
Indium	
Iridium	
Iron	
Lanthanum	
Lead	
Lithium	
Lutetium	
Manganese	
Mercury	
Molybdenum	
Neodymium	
Nickel	
Niobium	
Osmium	
Palladium	
Phosphorus	
Platinum	
Praseodymium	
Rhenium	
Rhodium	
Rubidium	
Ruthenium	
Samarium	
Scandium	
Selenium	
Silicon	
Silver	

Cations: ICP-OES (Acid extractable)
Cation Suite - Acid Extractable (Ca, K, Mg, Na)
Speciality Metals
Arsenic (Speciated) - water soluble
AVS + SEM
Bioavailable Metals - see DTPA or EDTA or Mehlich or Dilute Acid Extractable Metals or PBET (see agriculture)
Bromine and/or Iodine
Dilute Acid Extractable Metals (1M HCl)
DTPA or EDTA or Mehlich3 Extractable Metals
Hexavalent Chromium (Cr6+)
Methyl Mercury
PBET - Physiological Based Extraction Test - various metals
SEM (Simultaneous Extractable Metals)
Silicon as SiO2 (caustic fusion)
Sodicity (see ESP above)
Organometallics
Organotins (MBT/DBT/TBT)
Tributyl Tin (TBT)
Organotins full suite (MBT, DBT, TBT, MPT, DPT, TPT, MOT, DOT, TOT, Tetrabutyltin, Tricyclohexyltin)

Microbiology

E.coli
Faecal Coliforms (Thermotolerant Coliforms and E.coli)
Total Coliforms
Faecal enterococci (F. ent)
Pseudomonas aeruginosa (Hydrocarbon Utilising Bacteria)
Salmonella
Clostridium perfringens
Iron Precipitating Bacteria
Sulfate Reducing Bacteria (SRB) - Presence / Absence
Sulfate Reducing Bacteria (SRB) Semi-quantitative
Iron Reducing Bacteria
Enteric Viruses & Helminth Ova





Organics

Volatile Organic Compounds (VOC)

VHC - Volatile Chlorinated (VCH) / Halogenated Hydrocarbons

Formaldehyde + other carbonyls (HPLC)

Formaldehyde (Colourimetric - Total)

VOC – Unknown Qualitative Scan (10 major peaks are library matched)

BTEX

Benzene

Toluene

Ethyl benzene

m/p-xylene

o-xylene

MtBE (optional as MBTEX)

Naphthalene (optional as BTEXN)

MONOCYCLIC AROMATICS

BTEX (as above)

Styrene (vinyl benzene)

Isopropylbenzene (cumene)

n-propyl benzene

1,3,5-trimethyl benzene

tert-butyl benzene

1,2,4-trimethyl benzene

sec-butyl benzene

4-isopropyl toluene

n-butyl benzene

Trihalomethanes (THM)

Chloroform (trichloromethane)

Bromodichloromethane

Dibromochloromethane

Bromoform (tribromomethane)

HALOGENATED ALIPHATICS

1,1,1,2-tetrachloroethane

1,1,1-trichloroethane

1,1,2,2-tetrachloroethane

1,1,2-trichloroethane

1,1-dichloroethene

1,2-dichloroethane

cis-1,2-dichloroethene

trans-1,2-dichloroethene

Carbon tetrachloride

Dichloromethane (methylene chloride; DCM)

Hexachlorobutadiene (HCBD)

Tetrachloroethene (tetrachloroethylene; perchloroethylene; PCE)

Trichloroethene (trichloroethylene; TCE)

Vinyl chloride (chloroethene, chloroethylene)

FUEL OXYGENATES SCREEN

TAEE (tert amyl ethyl ether)

TAME (tert amyl methyl ether)

MtBE (methyl tert butyl ether)

DIPE (diisopropyl ether)

ETBE (ethyl tert butyl ether)

TBA (tert butyl alcohol)

MISCELLANEOUS VOCs

1,1-dichloroethane

Bromochloromethane

1,2-dibromo-3-chloropropane (DBCP)

1,3-dichloropropane

1,2,3-trichloropropane

1,1-dichloropropene

FUMIGANTS

2,2-dichloropropane
1,2-dichloropropane
trans-1,3-dichloropropene
cis-1,3-dichloropropene
1,2-dibromoethane (EDB; ethylene dibromide)

HALOGENATED AROMATICS

Chlorobenzene
Bromobenzene
2-chlorotoluene
4-chlorotoluene
1,2-dichlorobenzene

1,3-dichlorobenzene

1,4-dichlorobenzene

1,2,3-trichlorobenzene

1,2,4-trichlorobenzene

OXYGENATED COMPOUNDS (Ketones, etc.)

Acetone (2-propanone)

Acrolein (2-propanal)

2-butanone (MEK)

2,6-dimethyl-4-heptanone (Diisobutyl ketone, DIBK)

1,4-Dioxane

2-hexanone (MBK)

4-methyl-2-pentanone (MIBK)

2-nitropropane

Tetrahydrofuran

Vinyl acetate

SOLVENT SCREEN

Benzene
Toluene
Ethylbenzene
m/p xylenes
o-xylene
MTBE
Dichloromethane (methylene chloride; DCM)

Tetrachloroethene (tetrachloroethylene; perchloroethylene; PCE)

2-butanone (MEK)

Carbon Tetrachloride

Trichloroethene (trichloroethylene; TCE)

Carbon Disulphide

Chloroform (trichloromethane)

Diethyl Ether

Acrylonitrile

Methyl Acrylate

Methyl Methacrylate

Ethyl Methacrylate

Methacrylonitrile

Acetone (2-propanone)

Tetrahydrofuran

4-methyl-2-pentanone (MIBK)

Hexane

2-hexanone (MBK)

BROMINATED VOC

Vinyl bromide

Dibromomethane

Trans-1,2-dibromoethene

Cis-1,2-dibromoethene (total)

Bromoform

Tribromoethene

1,1,2,2-Tetrabromoethane

Diuron and Fluometuron

Volatile Fatty Acids

Volatile Fatty Acids (VFAs) - Total

Acetic

Propanoic

Iso-butyric

Butyric

Iso-valeric

Valeric

Iso-caproic

Caproic

Heptanoic

Carbamates (Herbicides)

Carbofuran

Carbaryl

Molinate



Phenoxy Acid Herbicides	Phenyl Ureas/ Carbamate/ Thiocarbamate Herbicides
Aci fluorfen	Methomyl
2,4,5-T	Aldicarb
2,4,5-TP (Silvex)	Propoxur
2,4,6-T	Carbofuran
2,4-D	Mexacarbate
2,4-DB	Propham
2,6-D	Oxamyl
3,5-dichlorobenzoic acid	Fluometuron
Bromoxynil	Fenuron
Clopyralid	Carbaryl
DCPA (chlorthal) diacid (does not extract in water)	Methiocarb
Semic-Volatile Organic Compounds (SVOC)	Tebuthiuron
SVOC - Standard 8270 suite (>100 analytes as default)	Chlorpropham
SVOC Extended Suite (>200 analytes)	Monuron
SVOC – Unknown Qualitative Scan (10 major peaks are library matched)	SWEP
AFFF Screen (PFOS/PFOA/6:2FtS)	Isoproturon
Aldehydes and Ketones (Carbonyls)	Diuron
Picloram	Linuron
Triclopyr	Siduron
Bentazon	Thiobencarb (benthiocarb)
Chloramben	Neburon
Fluroxypyr	Molinate
Dalapon (2,2-DPA)	Vernolate
Sulfonyl Ureas Herbicides	Pebulate
Atrazine	
Ametryn	
Cyanazine	
Hexazinone	
Irgarol	
Metribuzin	
Propazine	
Prometryn	
Simazine	
Terbutylazine	
Terbutryn	



Organochlorine Pesticides (OCP)
HCB
alpha-BHC (a-BHC)
gamma-BHC (lindane)
beta-BHC (b-BHC)
Heptachlor
delta-BHC (d-BHC)
Aldrin
Heptachlor Epoxide
gamma-Chlordane (g-chlordane, trans-chlordane)
alpha-chlordane (a-chlordane, cis-chordane)
Endosulfan I (a-endosulfan)
p,p'-DDE
Dieldrin
Endrin
p,p'-DDD
Endosulfan II (b-endosulfan)
p,p'-DDT
Endrin aldehyde
Endrin Ketone
Endosulfan Sulphate
Methoxychlor
isodrin
o,p'-DDE
o,p'-DDD
o,p'-DDT
Mirex
trans-nonachlor

Organophosphate Pesticides (OPP)
Azinphos methyl (guthion)
Bromophos Ethyl
Chlorpyriphos (chlorpyriphos ethyl)
Chlorpyriphos-methyl
Coumaphos (Co-Ral)
Diazinon (dimpylate)
Dichlorvos
Dimethoate
Disulfoton
Ethion
Fenamiphos (phenamiphos)
Fenitrothion
Fenthion
Malathion (maldison)
Methidathion
Mevinphos
Parathion (parathion-ethyl)
Parathion-methyl
Phorate
Phosalone
Ronnel (fenchlorphos)
Carbophenothion
cis-Clorfenvinphos
Demeton-S-methyl
EPN
Ethoprophos (ethoprop)
Fensulfothion
Monocrotophos
Naled (dibrom)
Phosmet
Pirimiphos-ethyl
Pirimiphos-methyl
Prothiophos (tokuthion)
Sulprofos (bolstar)
Tetrachlorvinphos (stirophos)
trans-Clorfenvinphos

Polycyclic Aromatic Hydrocarbons (PAH)
Naphthalene
Acenaphthylene
Acenaphthene
Fluorene
Phenanthrene
Anthracene
Fluoranthene
Pyrene
Benzo (a) anthracene
Disulfoton
Chrysene
Ethion
Fenamiphos (phenamiphos)
Fenitrothion
Fenthion
Malathion (maldison)
Methidathion
Mevinphos
Parathion (parathion-ethyl)
Parathion-methyl
Phorate
Phosalone
Ronnel (fenchlorphos)
Carbophenothion
cis-Clorfenvinphos
Demeton-S-methyl
EPN
Ethoprophos (ethoprop)
Fensulfothion
Monocrotophos
Naled (dibrom)
Phosmet
Pirimiphos-ethyl
Pirimiphos-methyl
Prothiophos (tokuthion)
Sulprofos (bolstar)
Tetrachlorvinphos (stirophos)
trans-Clorfenvinphos

PFAS
Perfluorobutane sulfonic acid
Perfluorohexane sulfonic acid
Perfluoroctane sulfonic acid
Perfluorodecane sulfonic acid
Perfluorobutanoic acid
Perfluorohexanoic acid
Perfluoroheptanoic acid
Perfluoroctanoic acid
Perfluorononanoic acid
Perfluorodecanoic acid
Perfluoroundecanoic acid
Perfluorododecanoic acid
Perfluorotridecanoic acid
Perfluorotetradecanoic acid
4:2 Fluorotelomer sulfonic acid
6:2 Fluorotelomer sulfonic acid
8:2 Fluorotelomer sulfonic acid
Perfluoroctane sulfonamide
N-Methyl perfluoroctane sulfonamide
N-Ethyl perfluoroctane sulfonamide
N-methyl perfluoroctane sulfonamidoethanol
N-Ethyl perfluoroctane sulfonamidoethanol
Total Phenolics (as Phenol)
Speciated Phenols
Phenol
2-Chlorophenol
4-Chloro-3-Methylphenol
2-Methylphenol (o-cresol)
3/4-Methylphenol (m/p-cresol)
2-Nitrophenol
2,4-Dimethylphenol
2,4-Dichlorophenol
2,6-dichlorophenol
2,4,5-trichlorophenol
2,4,6-trichlorophenol
2,4-dinitrophenol
4-nitrophenol
2,3,4,6-tetrachlorophenol
2-methyl-4,6-dinitrophenol
pentachlorophenol
Extra Vic EPA Phenols:
2,3,4,5 & 2,3,5,6-tetrachlorophenol
2-cyclohexyl-4,6-dinitrophenol (dinex)
dinoseb

Phthalates
Bis(2-ethylhexyl)phthalate (di-(2-ethylhexylphthalate)) (DEHP)
Butyl Benzyl phthalate (BBP)
Diethyl phthalate (DEP)
Dimethyl phthalate (DMP)
di-n-butyl phthalate (DBP)
di-n-octyl phthalate (DOP)
On request only:
Bis(2-ethylhexyl)adipate (di-(2-ethylhexyladipate)) (DEHA)
Semi-volatile chlorinated hydrocarbons (SVCH)
1,2,4,5-Tetrachlorobenzene
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Hexachloropropene
Pentachlorobenzene
Pentachloroethane
1,2,3,4-Tetrachlorobenzene
1,2,3,5-Tetrachlorobenzene
1,2,3-Trichlorobenzene
1,3,5-Trichlorobenzene
Synthetic Pyrethroids
Bifenthrin
Lambda-Cyhalothrin
Cyfluthrin
Cypermethrin
Deltamethrin
Esfenvalerate
cis-permethrin
trans-permethrin
Triazole Fungicides
Propiconazole Isomer A
Propiconazole Isomer A
Tebuconazole
Anilines and Amines
1-Naphthylamine
2-Naphthylamine
2-Nitroaniline
3-Nitroaniline
4-Chloroaniline
4-Nitroaniline
Aniline
Dibenzofuran

Haloethers:
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
4-bromophenyl phenyl ether
4-chlorophenyl phenyl ether
Nitrosamines:
Diphenylamine
N-Nitrosodi-n-butylamine (NDBA)
N-Nitroquinoline-N-oxide
o-Toluidine
Oxychlordane
Temephos (Abate)
Benzyl alcohol
Carbazole
Ethyl methanesulfonate
Isosafrole Isomer 1
Isosafrole Isomer 2
Methapyrilene
p-dimethylaminoazo benzene
Safrole
Methyl methanesulfonate
Alachlor
Metolachlor
e-caprolactam
Trifluralin
Cyclohexanone
2-picoline





Water Testing

Asbestos
Fibre count in water
Fibre confirmation by SEM
Inorganics and Metals
Physical parameters
pH
Electrical Conductivity (EC)
Biochemical Oxygen Demand (BOD)
Carbonaceous Biochemical Oxygen Demand (CBOD)
Chemical Oxygen Demand (COD)
Colour (True or Apparent)
Dissolved Oxygen
Turbidity
Salinity
Resistivity
Specific Gravity
Solids
Total Solids
Total Suspended Solids (TSS)
Total Dissolved Solids (TDS)
Total Volatile Suspended Solids (TVSS)
Total Settleable Solids
Alkalinity & Acidity
Acidity
Alkalinity Suite (CO ₃ , HCO ₃ , OH, Total Alkalinity)
Total Alkalinity
Hydroxide
Carbonate
Bicarbonate
Carbon Dioxide (CO ₂) - Free (Dissolved)
Carbon Dioxide (CO ₂) - Total

Anions & Cations
Anions – Major (Cl, SO ₄ , Alkalinity)
Anions – Minor (NO ₂ , NO ₃ , F, PO ₄)
Bromine and / or Iodine (Total)
Cations - Ca, K, Mg, Na
Ionic Balance
Bromide
Chloride
Fluoride
Hardness - Ca or Mg
Iodide
Sodium Absorption Ratio (SAR)
Sulphate
Sulphide
Sulphite
Thiosulphate
Cyanides
Total Cyanide
Amenable Cyanide (Amenable to Chlorination - labile)
Weak Acid Dissociable (WAD) Cyanide
Free Cyanide
Thiocyanate (SCN)
Nutrients
Ammonia (NH ₃) as N
Nitrate (NO ₃) as N
Nitrite (NO ₂) as N
NO _x as N (NO ₂ + NO ₃)
Total Kjeldahl Nitrogen (TKN)
Total Nitrogen
Organic Nitrogen
Inorganic Nitrogen
Phosphate (PO ₄) as P
Total Phosphorus

Metals
Aluminium
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Caesium
Cerium
Chromium
Cobalt
Copper
Dysprosium
Sulphate (SO ₄) – water soluble
Erbium
Europium
Gadolinium
Gallium
Germanium
Gold
Hafnium
Holmium
Indium
Iridium
Iron
Lanthanum
Lead
Lithium
Lutetium
Manganese
Mercury
Molybdenum
Neodymium
Nickel
Niobium
Osmium
Palladium
Phosphorus
Platinum

Praseodymium
Particle Size Distribution - Sieving only (75mm - 75µm)
Particle Size Distribution - Hydrometer only (75-20µm, <20-2µm, <2µm (Clay fraction))
Particle Size Distribution - Sieving and Hydrometer (as above)
RTA - Sieving (proportion retained on sieves 0.475, 9.5 & 26.5mm)
Sulphur forms
Acid Volatile Sulphur (AVS)
SEM (Simultaneous Extractable Metals)
Sulphate (SO ₄) – water soluble
Sulphide (Pres/Abs)
Sulphide - Total (NEPM, B3 section 9.4 - acid soluble and insoluble)
TOS - Total Oxidisable Sulfur
Miscellaneous
MBAS (Surfactants) water soluble
Oxidant Demand (NOD/SOD) includes residual persulfate over 1-4 time periods with buffer capacity
Sugar in soil/concrete
Metals
Aluminium
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Caesium
Cerium

Water

Based on your needs and requirements for scientific testing services, our expert team at Envirolab can advise which analysis may best suite your situation

Speciality Metals

Arsenic - Speciated

Chelex (Bioavailable (Labile) Metals)

Ferrous Iron (Fe²⁺)

Hexavalent Chromium (Cr VI)

Silica - determined as Silicon (acid soluble)

Silica - Reactive (dissolved silica)

Cations

Cations (Ca, K, Mg, Na)

Organometallics

Organotins (DBT/TBT/MBT)

Tributyl Tin (TBT)

Methyl Mercury

Organotins Full Suite (DBT/TBT/MBT, MPT, DPT, TPT, MOT, DOT, TOT, TeBT, Tricyclohexyltin)

Microbiology

Algae - Total Algal ID and Enumeration - Freshwater

Algae - Blue Green ID and Enumeration - Freshwater

Algae - Species Identification - Water or Scum sample

Amoeba (Inc. Naegleria speciation - if required)

Acanthamoebae (35°C)

Bacteria

F.Enterococcus

Total Plate Count

Heterotrophic Plate Count (HPC)

Anaerobic Heterotrophic Plate Count

Total Coliforms

E.coli

Faecal Coliforms

Thermotolerant coliforms

Faecal Enterococci (F Ent.)

Legionella

Pseudomonas aeruginosa (Hydrocarbon Utilising Bacteria)

Clostridium perfringens

Sulphite Reducing Clostridia

Salmonella

Iron Related Bacteria (semi quantitative)

Sulphate Reducing Bacteria (semi-quantitative)

Acid Producing Bacteria (semi-quantitative)

Denitrifying Bacteria (semi-quantitative)



Miscellaneous
Chlorine (Free)
Chlorine (Total)
Chlorophyll-A
Langelier Saturation Index (LSI)
MBAS (Surfactants)
Odour
Dissolved Organic Carbon (DOC)
Total Organic Carbon (TOC)
Oxyanions - Chlorite, Chlorate, Bromate
Sugar
Tannins & Lignins
Total Carbon (TC)
Total Inorganic Carbon (TIC)





Organics

Disinfection By-products	
HAAs (MCA, DCA and TCA)	
Speciated Phenols (ADWG Low Level)	
Trichloroacetaldehyde (chloral hydrate)	
Dissolved Gases	
Acetylene	
Butane	
Ethane	
Ethene	
Methane	
Propane	
Total Recoverable Hydrocarbons (TRH)	
vTRH (C6-C9)	
TRH - Semi-volatile (C10-C36)	
STRH (C10-C36) with silica gel clean-up	
TRH NEPM	
TRH NEPM	
C6-C10 (Note F1='C6-C10' less BTEX), >C10-C16 (note F2= '>C10-C16' less Naphthalene), >C16-C34, >C34-C40)	
STRH HRAF Aliphatic/Aromatic Speciation	
C10-C15 Aliphatic & Aromatic, C16-C35 Aliphatic & Aromatic & >C35 Aliphatic	
vTRH CWG Aliphatic/Aromatic Speciation	
Aliphatic C5-C6, >C6-C8, >C8-C10 and Aromatic C5-C7, >C7-C9, >C9-C10	
STRH CWG Aliphatic/Aromatic Speciation	
C10-C12 Aliphatic & Aromatic, C12-C16 Aliphatic & Aromatic, C16-C21 Aromatic, C16-C35 Aliphatic & C21-C35 Aromatic	
TRH (Product ID)- comparison with in-house library	
TRH Chromatogram Supply	
Volatile Organic Compounds (VOC)	
VHC - Volatile Chlorinated (VCH) / Halogenated Hydrocarbons	
Formaldehyde + other carbonyls (HPLC)	
Formaldehyde (Colourimetric - Total)	
VOC – Unknown Qualitative Scan (10 major peaks are library matched)	
Vinyl Chloride	

BTEX	FUMIGANTS
Benzene	2,2-dichloropropane
Toluene	1,2-dichloropropane
Ethyl benzene	trans-1,3-dichloropropene
m/p-xylene	cis-1,3-dichloropropene
o-xylene	1,2-dibromoethane (EDB; ethylene dibromide)
MtBE (optional as MBTEX)	
Naphthalene (optional as BTEXN)	
MONOCYCLIC AROMATICS	HALOGENATED AROMATICS
BTEX (as above)	Chlorobenzene
Styrene (vinyl benzene)	Bromobenzene
Isopropylbenzene (cumene)	2-chlorotoluene
n-propyl benzene	4-chlorotoluene
1,3,5-trimethyl benzene	1,2-dichlorobenzene
tert-butyl benzene	1,3-dichlorobenzene
1,2,4-trimethyl benzene	1,4-dichlorobenzene
sec-butyl benzene	1,2,3-trichlorobenzene
4-isopropyl toluene	1,2,4-trichlorobenzene
n-butyl benzene	OXYGENATED COMPOUNDS (Ketones, etc.)
	Acetone (2-propanone)
	Acrolein (2-propanal)
	2-butanone (MEK)
	Bromodichloromethane
	Dibromochloromethane
	Bromoform (tribromomethane)
Trihalomethanes (THM)	Chloroform (trichloromethane)
	2,6-dimethyl-4-heptanone (Diisobutyl ketone, DIBK)
	1,4-Dioxane
	2-hexanone (MBK)
	4-methyl-2-pentanone (MIBK)
	2-nitropropane
	Tetrahydrofuran
	Vinyl acetate
FUEL OXYGENATES SCREEN	TAEE (tert amyl ethyl ether)
	TAME (tert amyl methyl ether)
	MtBE (methyl tert butyl ether)
	DIPE (diisopropyl ether)
	ETBE (ethyl tert butyl ether)
	TBA (tert butyl alcohol)
MISCELLANEOUS VOCs	1,1,2-trichlorotrifluoroethane (Freon CFC-113)
	Acrylonitrile
	Allyl Chloride (3-chloroprene)
	Carbon disulfide
	Chloroprene (Neoprene, Rubber)
	cis-1,4-Dichloro-2-butene
	1-Chlorobutane
	Iodomethane
	Naphthalene
	Nitrobenzene
	Propionitrile
	Hexane
	trans-1,4-dichloro-2-butene
	Cyclohexane

SOLVENT SCREEN
Benzene
Toluene
Ethylbenzene
m/p xylenes
o-xylene
MTBE
Dichloromethane (methylene chloride; DCM)
Tetrachloroethene (tetrachloroethylene; perchloroethylene; PCE)
2-butanone (MEK)
Carbon Tetrachloride
Trichloroethene (trichloroethylene; TCE)
Carbon Disulphide
Chloroform (trichloromethane)
Diethyl Ether
Acrylonitrile
Methyl Acrylate
Methyl Methacrylate
Ethyl Methacrylate
Methacrylonitrile
Acetone (2-propanone)
Tetrahydrofuran
4-methyl-2-pentanone (MIBK)
Hexane
2-hexanone (MBK)
BROMINATED VOC
Vinyl bromide
Dibromomethane
Trans-1,2-dibromoethene
Cis-1,2-dibromoethene (total)
Bromoform
Tribromoethene
1,1,2,2-Tetrabromoethane
Volatile Fatty Acids
Volatile Fatty Acids (VFAs) - Total
Acetic
Propanoic
Iso-butyric
Butyric
Iso-valeric
Valeric
Iso-caproic
Caproic
Heptanoic
Phenoxy Acid Herbicides
Aci fluorfen
2,4,5-T
2,4,5-TP (Silvex)
2,4,6-T
2,4-D
2,4-DB
2,6-D
3,5-dichlorobenzoic acid
Bromoxynil
Clopyralid
DCPA (chlorthal) diacid (does not extract in water)
AOX (water leachable)
Coal Tar (note - approximate with high degree of uncertainty)
Cresol/ Coal Tar Creosotes (PAH & Methyl Phenol Package) - by GCMS
Diquat and Paraquat
Diuron and Fluometuron
Explosives
EDTA and NTA
Glycols (Alcohols are separate analysis, see above)
Picloram
Triclopyr
Bentazon
Chloramben
Fluroxypyr
Dalapon (2,2-DPA)
Sulfonyl Ureas Herbicides
Metsulfuron Methyl
Chlorsulfuron
Triazine Herbicides
Atrazine
Ametryn
Carbaryl
Cyanazine
Hexazinone
Irgarol
Metribuzin

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Organochlorine Pesticides (OCP)
HCB
alpha-BHC (a-BHC)
gamma-BHC (lindane)
beta-BHC (b-BHC)
Heptachlor
delta-BHC (d-BHC)
Aldrin
Heptachlor Epoxide
gamma-Chlordane (g-chlordane, trans-chlordane)
alpha-chlordane (a-chlordane, cis-chordane)
Endosulfan I (a-endosulfan)
p,p'-DDE
Dieldrin
Endrin
p,p'-DDD
Endosulfan II (b-endosulfan)
p,p'-DDT
Endrin aldehyde
Endrin Ketone
Endosulfan Sulphate
Methoxychlor
isodrin
o,p'-DDE
o,p'-DDD
o,p'-DDT
Mirex
trans-nonachlor
Organophosphate Pesticides (OPP)
Azinphos methyl (guthion)
Bromophos Ethyl
Chlorpyriphos (chlorpyriphos ethyl)
Chlorpyriphos-methyl
Coumaphos (Co-Ral)
Diazinon (dimpylate)
Dichlorvos
Dimethoate
Disulfoton
Ethion
Fenamiphos (phenamiphos)
Fenitrothion
Fenthion
Malathion (maldison)
Methidathion
Mevinphos
Parathion (parathion-ethyl)
Parathion-methyl



Phorate
Phosalone
Ronnel (fenchlorphos)
Carbophenothon
cis-Clorfenvinphos
Demeton-S-methyl
EPN
Ethoprophos (ethoprop)
Fensulfothion
Monocrotophos
Naled (dibrom)
Phosmet
Pirimiphos-ethyl
Pirimiphos-methyl
Prothiophos (tokuthion)
Sulprofos (bolstar)
PFAS
Perfluorobutane sulfonic acid
Perfluorohexane sulfonic acid
Perfluoroctane sulfonic acid
Perfluorodecane sulfonic acid
Perfluorobutanoic acid
Perfluorohexanoic acid
Perfluoroheptanoic acid
Perfluoroctanoic acid
Perfluorononanoic acid
Perfluorodecanoic acid
Perfluoroundecanoic acid
Perfluorododecanoic acid
Perfluorotridecanoic acid
Perfluorotetradecanoic acid
4:2 Fluorotelomer sulfonic acid
6:2 Fluorotelomer sulfonic acid
8:2 Fluorotelomer sulfonic acid
Perfluorooctane sulfonamide
N-Methyl perfluorooctane sulfonamide
N-Ethyl perfluorooctane sulfonamide
N-methyl perfluorooctane sulfonamidoethanol
N-Ethyl perfluorooctane sulfonamidoethanol
Total Oxidisable Precursor Assay

Polychlorinated Biphenyls (PCB)

Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
PCB Congener 28
PCB Congener 52
PCB Congener 101
PCB Congener 118
PCB Congener 138
PCB Congener 153
PCB Congener 180
PFAS
Perfluorobutane sulfonic acid
Perfluorohexane sulfonic acid
Perfluoroctane sulfonic acid
Perfluorodecane sulfonic acid
Perfluorobutanoic acid
Perfluorohexanoic acid
Perfluoroheptanoic acid
Perfluoroctanoic acid
Perfluorononanoic acid
Perfluorodecanoic acid
Perfluoroundecanoic acid
Perfluorododecanoic acid
Perfluorotridecanoic acid
Perfluorotetradecanoic acid
4:2 Fluorotelomer sulfonic acid
6:2 Fluorotelomer sulfonic acid
8:2 Fluorotelomer sulfonic acid
Perfluorooctane sulfonamide
N-Methyl perfluorooctane sulfonamide
N-Ethyl perfluorooctane sulfonamide
N-methyl perfluorooctane sulfonamidoethanol
N-Ethyl perfluorooctane sulfonamidoethanol
Total Oxidisable Precursor Assay



Total Phenolics (as Phenol)

Speciated Phenols
Phenol
2-Chlorophenol
4-Chloro-3-Methylphenol
2-Methylphenol (o-cresol)
3/4-Methylphenol (m/p-cresol)
2-Nitrophenol
2,4-Dimethylphenol
2,4-Dichlorophenol
2,6-dichlorophenol
2,4,5-trichlorophenol
2,4,6-trichlorophenol
2,4-dinitrophenol
4-nitrophenol
2,3,4,6 - tetrachlorophenol
2-methyl-4,6-dinitrophenol
pentachlorophenol
Extra Vic EPA Phenols:
2,3,4,5 & 2,3,5,6 - tetrachlorophenol
2-cyclohexyl-4,6-dinitrophenol (dinex)
dinoceb
Phthalates
Bis(2-ethylhexyl) phthalate (di-(2-ethylhexylphthalate)) (DEHP)
Diethyl phthalate (DEP)
Dimethyl phthalate (DMP)
di-n-butyl phthalate (DBP)
di-n-octyl phthalate (DOP)
On request only:
Bis(2-ethylhexyl)adipate (di-(2-ethylhexyladipate)) (DEHA)
Haloethers:
Bis(2-chloroethoxy) methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl) ether
4-bromophenyl phenyl ether
4-chlorophenyl phenyl ether
Nitrosamines:
Diphenylamine
N-Nitrosodi-n-butylamine (NDBA)
N-Nitrosodi-n-propylamine (NDPA)
N-Nitrosomorpholine (NMOR)
N-Nitrosopiperidine (NPIP)
4-Aminobiphenyl
N-Nitrosodiethylamine (NDEA) (N-ethyl-N-nitroso-ethanamine)
N-Nitrosomethyl-ethylamine
N-Nitrosopyrrolidine (NPYR)
Nitroaromatics and Ketones:
1,3-Dinitrobenzene (meta)
Propiconazole Isomer A
Propiconazole Isomer A
Tebuconazole
Diethyl phthalate (DEP)
Dimethyl phthalate (DMP)
2-Nitro-o-toluidine
Acetophenone
Azobenzene
Isophorone
Nitrobenzene
Pentachloronitro benzene
Phenacetin
MDMA
MDMA
Radiological
Radiation - Gross Alpha and Beta (K also required for correction)
Radionuclides - Ra 226 and/or 228



Asbestos

Asbestos Counting
Asbestos or SMF - Airborne fibres
Fibre Confirmation by SEM - Filters
Volume Measurement Training and Equipment Checks as per NATA Requirements
Asbestos Identification
Asbestos ID - Soil or Dust
Asbestos ID - Clay Soil (WA Dept of Health Guidelines)
Asbestos ID - Sandy Soil (WA Dept of Health Guidelines)
Asbestos ID - Bulk materials
Asbestos ID - Tape
Asbestos ID - Swab
Asbestos ID - Brake pads (Testing is destructive)
Asbestos ID - Clutch plates (Testing is destructive)
Fibre Confirmation by SEM - Bulk samples



Dusts / Particulates

DPM
Diesel Particulate Matter (DPM) - Elemental carbon only
Diesel Particulates (DPM) - Elemental carbon and Total carbon
Diesel Particulates (DPM) - Elemental carbon, Organic carbon and Total carbon
Dust
Inhalable Dust
Total Welding Fume
Respirable Dust
Respirable Dust and Quartz (alpha quartz, silica)
Respirable Quartz or Cristobalite (latter non-NATA)
Respirable Quartz and Cristobalite (latter non-NATA)
Combustible Dust - Respirable/Inhalable, Oil Mists, Wood Dusts
Oil Mist, Mineral (as per NIOSH 5026)

Dust Deposition
Dust Deposition Gauges – 5 fractions (Insoluble + soluble+ combustible + ash + total)
Dust Deposition Gauges – 3 fractions (Insoluble+soluble+total)
Dust Deposition Gauges (Total solids only)
Total Suspended Particles (TSP/HVAS/LVAS)
Supply of Filter - Glass Fibre
Alternatively - Supply of Filter - PVC (if required)
Pre-weigh & label
Post-weigh & report
Total (including supply of Glass Fibre filter):
Supply of Filter - Teflon (PTFE)
Pre-weigh & label
Post-weigh & report
Total (including supply of PTFE filter):



Inorganics

Acid Mists
Bromide (HBr)
Chloride (HCl)
Sulphate (H ₂ SO ₄)
Fluoride (HF)
Nitrate (HNO ₃)
Phosphate (H ₃ PO ₄)
Ammonia
Ammonia (NH ₃ as N)
Ammonium Sulphate (dust) - Calculated from Ammonium
Anions - Swab Analysis
Bromide
Chloride
Fluoride
Iodide
Sulphate
Nitrate
Phosphate
Cyanide
Cyanide Free - HCN (form)
Cyanide Particulate (form)
Fluoride
Fluorides - Particulate
Fluorides - Vapour form (HF)
Hydrogen Sulphide (H ₂ S)
Hydrogen Sulphide (H ₂ S)
Iodine
Iodine in Air
Iodine in Swabs
Metalworking Fluids (MWF)
Metalworking Fluids (MWF)
Nitric Oxide and Nitrogen Dioxide
Nitrogen Dioxide (NO ₂)
Nitric Oxide (NO) (Nitrogen monoxide)
Nitric Oxide (NO) and Nitrogen Dioxide (NO ₂)
Sulphur Dioxide (SO ₂)
Sulphur Dioxide (SO ₂)
Sulphur Dioxide (SO ₂) and Sulphuric Acid (H ₂ SO ₄)
Trimellitic Anhydride
Trimellitic Anhydride

work health testing (OHS)



Metals

Arsine/Arsenic Speciation
Arsine (ASH ₃) in air
Arsenic speciation in urine (As III, As V, Organic As)
Hexavalent Chromium
Hexavalent Chromium (Cr VI) in air - OSHA
Hexavalent Chromium (Cr VI) in air - NIOSH
Hexavalent Chromium (Cr VI) on wipes

Metals (Filters, Wipes, Paint)
Aluminium - Al
Antimony - Sb
Arsenic - As
Barium - Ba
Beryllium - Be
Boron - B
Cadmium - Cd
Calcium - Ca

Chromium - Cr
Cobalt - Co
Copper - Cu
Thallium - Tl
Thorium - Th
Tin - Sn
Titanium - Ti
Tungsten - W
Uranium - U
Zinc - Zn
Lead in Paint
Metal Compounds
Metal oxides, metal silicates, etc
Organometallic Compounds
Methyl mercury
Trimethyl lead
Organotins - dibutyltin, diphenyltin, diocetyltin, monobutyltin, monophenyltin, monooctyltin, tetrabutyltin, tributyltin, tricyclohexyltin

Illicit drugs and precursors surface swabs

Ephedrine
Pseudoephedrine
Amphetamine
Methamphetamine
MDA
MDMA

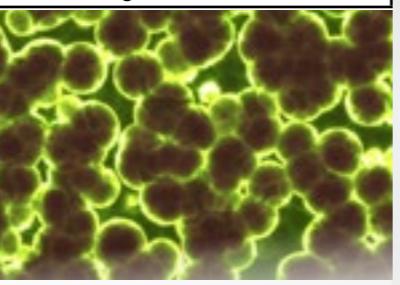


Urine Testing

Creatinine
Thiocyanate (SCN)
Arsenic - As (Total)
Vanadium - V
Nickel - Ni
Cobalt - Co
Chromium - Cr
Cadmium - Cd
Mercury - Hg
Beryllium - Be
Boron - B
Aluminium - Al
Manganese - Mn
Iron - Fe
Copper - Cu
Zinc - Zn
Selenium - Se
Lead - Pb
Molybdenum - Mo
Silver - Ag
Antimony - Sb
Tin - Sn
Barium - Ba
Thorium - Th
Uranium - U
Arsenic speciation in urine (As III, As V, Organic As)

Microbiology

Total Airborne Bacteria & Yeasts & Moulds
Total Surface Bacteria & Yeasts & Moulds
Airborne E.coli (including Thermotolerant coliforms)
Airborne Legionella



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Organics

Alcohols
Alcohols (extras on request)
n-Butanol
Isobutyl alcohol (isobutanol)
2-ethyl-1-hexanol
Isopropyl alcohol (IPA)
Methanol
Propyl alcohol
Ethanol
Methanol

Aldehydes & Ketones (Carbonyls)
2,5 - dimethylbenzaldehyde
Acetaldehyde
Acetone/Acrolein
Benzaldehyde
Butanal (Butyraldehyde) /isobutyraldehyde
Crotonaldehyde
Cyclohexanone
Decanal
Formaldehyde
Heptanal

Hexanal (Hexaldehyde)
Isobutyraldehyde
Isovaleraldehyde
m/p-tolualdehyde
Methacrolein
Methyl ethyl ketone (MEK; 2-butanone)/ Methacrolein
Nonanal
Octanal
o-tolualdehyde
Propionaldehyde (Propanal)
Valeraldehyde (Pentanal)

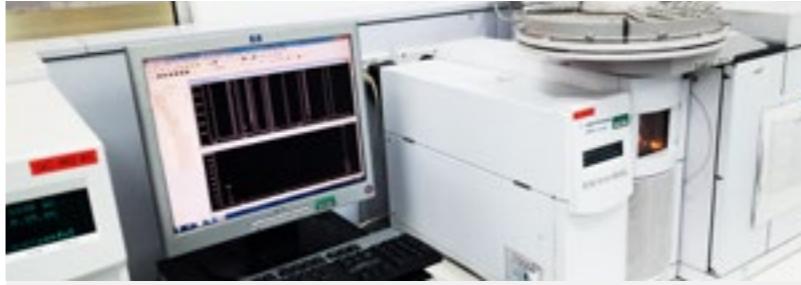
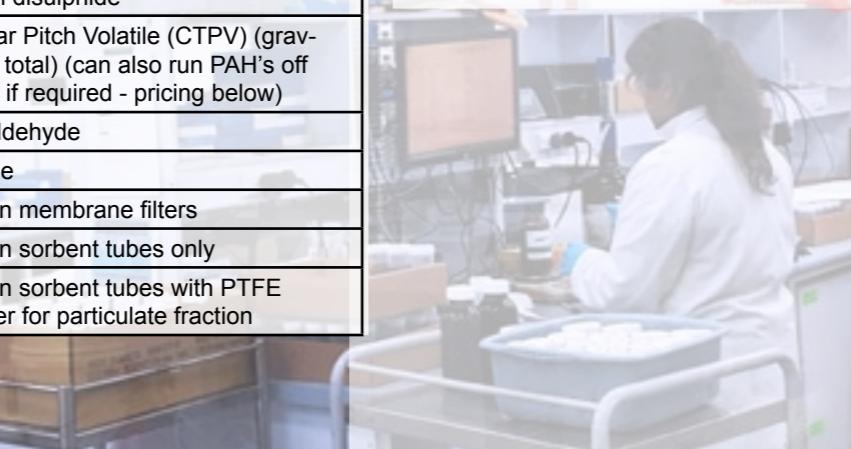
Glycols
Glycols
Ethylene glycol
Diethylene glycol
Diethylene glycol monoethyl ether (2-(2-ethoxyethoxy)ethanol or Carbitol)
Propylene glycol
Triethylene glycol
(±)1,3-butanediol (1,3-butylene glycol)

Miscellaneous organics
Asphalt / Bitumen Fumes (can also run PAH's off extract if required - pricing below)
Bisphenol A (BPA)
Carbon disulphide
Coal Tar Pitch Volatile (CTPV) (gravimetric total) (can also run PAH's off extract if required - pricing below)
Formaldehyde
Nicotine
OCP on membrane filters
OCP on sorbent tubes only
OCP on sorbent tubes with PTFE pre-filter for particulate fraction



PAH on membrane filters
PAH on sorbent tubes
PAH on sorbent tubes with PTFE pre-filter for particulate fraction
Paraquat/Diquat on filters
PCB's in Oil: Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260
Propylene glycol
Triethylene glycol
(±)1,3-butanediol (1,3-butylene glycol)

Miscellaneous organics
Asphalt / Bitumen Fumes (can also run PAH's off extract if required - pricing below)
Bisphenol A (BPA)
Carbon disulphide
Coal Tar Pitch Volatile (CTPV) (gravimetric total) (can also run PAH's off extract if required - pricing below)
Formaldehyde
Nicotine
OCP on membrane filters
OCP on sorbent tubes only
OCP on sorbent tubes with PTFE pre-filter for particulate fraction



Organic Vapours - Charcoal tubes/badges - Solvent Elution

Miscellaneous VOC's
TRH / TVOC's and SVOC's (C6-C9 and C10-C15)
Naphtha (excluding Light Naphtha - C5-<C6), Light Diesel, Petrol, Kerosene, etc., Vapours - Sum of TVOC C6-C9 and SVOC C10-C15
Organic Vapours
Ketones:
Acetone
DIBK (diisobutyl ketone)
MEK (2-butanone)
MIBK (4-methyl-2-pentanone)
MIPK (3-methyl-2-butanone)
Cyclohexanone
MtBE (methyl tert butyl ether)
BTEX/MAH:
Benzene
Toluene
Ethylbenzene
m/p-Xylenes
o-xylene
MtBE (methyl tert butyl ether)
1,2,4-trimethyl benzene
1,3,5-trimethyl benzene
4-isopropyl toluene
a-methyl styrene
Isopropylbenzene (Cumene)
Naphthalene
n-butyl benzene
n-propyl benzene
sec-butyl benzene
Styrene (Vinyl benzene)
tert-butyl benzene
Halogenated VOC's (VCH, etc):
1,1,1,2-tetrachloroethane
1,1,1-trichloroethane
1,1,2,2-tetrachloroethane
1,1,2-trichloroethane
1,1-dichloroethane
1,1-dichloroethene
1,1-dichloropropene
1,2,3-trichlorobenzene
1,2,3-trichloropropane
1,2,4-trichlorobenzene
1,2-dibromo-3-chloropropane
1,2-dibromoethane
1,2-dichlorobenzene
1,2-dichloroethane
1,2-dichloropropane
1,3-dichlorobenzene
1,3-dichloropropane
1,4-dichlorobenzene
2,2-dichloropropane
2-chlorotoluene
4-chlorotoluene
Bromobenzene
m/p-Xylenes
Bromochloromethane (Chlorobromomethane)
Bromodichloromethane (Dichlorobromomethane)
Bromoform (tribromomethane)
Carbon tetrachloride
Chlorobenzene (Monochlorobenzene)
Chloroform (trichloromethane)
cis-1,2-dichloroethene
cis-1,3-dichloropropene
Dibromochloromethane (Chlorodibromomethane)
Dibromomethane
Hexachlorobutadiene
Tetrachloroethene (PCE, Perchloroethylene)
trans-1,3-dichloropropene
Trichloroethylene (TCE, Trichloroethene)
Paint & Other Industrial Solvents:
Acrylonitrile
n-Butyl acetate
Ethyl acetate
Ethyl acrylate
High Odour Compounds:
Dimethyldisulphide
Methylcyclopentane
3-methylpentane
Paint & Other Industrial Solvents:
n-Butyl acrylate
1-chlorobutane
Ethyl methacrylate
Methyl methacrylate
Methyl acrylate
Miscellaneous Compounds/Solvents:
1,4-Dioxane
Benzyl Chloride (α -Chlorotoluene)
Epichlorohydrin
Diethyl ether (ethyl ether)
Propionitrile
cis-1,4-dichlorobutene
trans-1,4-dichlorobutene
Nitrobenzene
Chloroprene (2-chloro-1,3-butadiene, Neoprene Latex/Rubber)
1,1,2-trichlorotrifluoroethane (Freon 113)
Dichloromethane (methylene chloride)
Iodomethane
Acetonitrile
Gases in Air - Special Suite 5
Vinyl Chloride
Chloroethane
Dichlorofluoromethane
Trichlorofluoromethane
Bromomethane/Chloromethane
Additional VOC's on request (please contact the laboratory)



Organics - Gases, Vapours and Solvents

H2 - Hydrogen
O2 - Oxygen
N2 - Nitrogen
CH4 - Methane
CO - Carbon Monoxide
CO2 - Carbon Dioxide
He - Helium
Ethane, Butane
Hydrocarbon speciation (C1-C6 & >C6)



VOC - Whole Air Thermal Desorption Tubes, Summa Canisters or Tedlar Bags

VOC's in air USEPA TO15 or TO17 or m18
1,1,1-trichloroethane
1,1,2,2-tetrachloroethane
1,1,2-trichloroethane
1,1-dichloroethane
1,1-dichloroethene
1,2,4-trichlorobenzene
1,2,4-trimethylbenzene
1,2-dibromoethane
1,2-dichlorobenzene
1,2-dichloroethane
1,2-dichloropropane
1,3,5-trimethylbenzene
1,3-butadiene
1,3-dichlorobenzene
1,4-dichlorobenzene
1,4-dioxane
4-ethyl toluene
acetone* (on request)
acrolein
benzene
benzyl chloride
bromodichloromethane
bromoform

bromomethane
carbon disulfide
carbon tetrachloride
chlorobenzene
chloroethane
chloroform
chloromethane
cis-1,2-dichloroethene
cis-1,3-dichloropropene
cyclohexane
dibromochloromethane
dichlorodifluoromethane (freon-12)
ethanol
ethyl acetate
ethyl benzene
freon-113
freon-114
heptane
hexachlorobutadiene
hexane
isopropyl alcohol
m/p-xylene
methyl butyl ketone(MBK)
methyl ethyl ketone (MEK)
methyl isobutyl ketone (MIBK)
1,2,3- trichloropropane
1,2-dibromo- 3-c hloropropane
1,3 - dichloropropane
2,2 - dichloropropane
2 - chlorotoluene
4-chlorotoluene
4 - isopropyltoluene
bromobenzene
dibromomethane
isopropylbenzene
n-butylbenzene
n-propylbenzene
sec-butylbenzene
tetrahydrofuran
toluene
trans -1,3-dichloropropene
trans-1,2- dichloroethene
trichloroethene
tri chlorofluoromethane (freon-11)
vinyl acetate
vinyl chloride
1,1,1,2 - tetrachloroethane
1,1- dichloropropene
1,2,3 - Trichlorobenzene



air quality and soil vapour

Ozone Precursors
1,2,3-trimethylbenzene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
1-butene
1-hexene
1-pentene
2,2,4-trimethylpentane
2,2-dimethylbutane
2,3,4-trimethylpentane
2,3-dimethylbutane
2,3-dimethylpentane
2,4-dimethylpentane
2-methylheptane
2-methylhexane
2-methylpentane
3-methylheptane
3-methylhexane
3-methylpentane
4-ethyl toluene
Benzene
cis-2-butene
cis-2-pentene
cyclohexane
cyclopentane
Ethyl Benzene
Heptane
Hexane
iso-butane
iso-pentane
iso-prene (2-methyl-1,3- butadiene)
isopropylbenzene
m/p-xylene
m-diethylbenzene
methylcyclohexane
methylcyclopentane
m-ethyltoluene
n-butane
n-decane
n-dodecane
n-octane
nonane
n-pentane
n-propylbenzene
n-undecane
o-ethyltoluene
o-xylene
p-diethylbenzene
propane
propylene

Styrene
Toluene
trans-2-butene
trans-2-pentene
TPH various bands/ Air Phase
Hydrocarbons (Non-methane
Hydrocarbons)
C5-C8 aliphatics
C9-C12 aliphatics
C9-C10 aromatics
#other fractions C5-12 available, contact the laboratory

Sulphur Speciation
H2S, COS, MeSH, EtSH, Me2S (CS2 is part of VOC's by TO15)
Fixed gases
Methane
Ethane
Ethylene
Propane
Propylene
iso-Butane
n- Butane
1,2-Propadiene
Acetylene
trans-2-Butene
1-Butene
i-Butylene
cis-2-Butene
TVOC as Toluene in bags



Envirolab has specialist expertise in assessing VOCs under the following test methods:

- ✓ VOCs in landfill gas and stack emissions by USEPA Method 18
- ✓ VOCs in ambient air collected on thermal desorption tubes, USEPA TO17
- ✓ VOCs in ambient air collected in Summa Canisters, USEPA TO15

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