



# Sample Preservation and Holding Time Guide



# WATER

## Per- and Polyfluoroalkyl Substances (PFAS)



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## Cyanide / Hexavalent Cr



Analytes

PFAS (n=30)  
+ Extended Suite,  
TOP and TOF  
Assay

PFAS (n=30)  
+ Extended Suite

Cyanide (total, free,  
WAD, amenable) or  
hexavalent Cr

Preservation

$\leq 6^{\circ}\text{C}$  or  $\leq -20^{\circ}\text{C}$

$\leq 6^{\circ}\text{C}$  or  $\leq -20^{\circ}\text{C}$

Plastic (NaOH),  
 $\leq 6^{\circ}\text{C}$  dark

Holding Time

28 Days or  
90 Days

28 Days or  
90 Days

14 Days

Notes

Avoid contact  
with Teflon

2 x HDPE bottles  
required for each  
sample. Avoid  
contact with Teflon

For samples  
containing high  
sulfide - contact  
laboratory for special  
requirements

# WATER

## Inorganic Parameters 250mL



## Inorganic Parameters 500mL



## Sulfide



Analytes

pH, EC, anions,  
cations TDS, TSS

pH, EC, TDS, TSS,  
BOD, anions,  
cations

Sulfide

Preservation

Plastic  
 $\leq 6^{\circ}\text{C}$

Plastic  
 $\leq 6^{\circ}\text{C}$

Zinc acetate/  
NaOH pH>9, zero  
headspace,  $\leq 6^{\circ}\text{C}$

Holding Time

pH, DO: 6 Hours;  
RP,  $\text{NO}_2$ ,  
 $\text{NO}_3$ : 2 Days;  
solids: 7 Days

pH: 6 Hours;  
BOD, RP,  $\text{NO}_2$ ,  
 $\text{NO}_3$ : 2 Days;  
solids: 7 Days

7 Days

Notes

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Larger volume  
required for  
all inorganic  
parameters

Zero Headspace

# WATER

1,4-Dioxane



Semi-Volatile  
Organic  
Compounds  
(SVOC)



Specialist SVOC  
or Low Level



Analytes

1,4-Dioxane

TRH (>C10-C40),  
OCs, OPs, PCBs,  
PAHs, phenols

TBT, dioxins,  
PBDEs, OP, PAH,  
low level OC,  
phenols, etc.

Preservation

Glass 200 mL,  $\leq 6^{\circ}\text{C}$ ,  
Sodium sulfite 50 mg/L  
Sodium bisulfate 1 g/L

Glass 200 mL,  
 $\leq 6^{\circ}\text{C}$

Glass 1000 mL,  
 $\leq 6^{\circ}\text{C}$

Holding Time

28 Days

7 Days

7-365 Days

Notes

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40 days from  
extraction

Additional volume  
is required for  
low level organics,  
contact local  
representative

# WATER

## Nutrients



## Oil & Grease



## TOC/DOC



Analytes

Total N, P, NO<sub>x</sub>,  
TKN, NH<sub>3</sub>, COD

Oil and Grease

Total or dissolved  
organic carbon

Preservation

Plastic pH<2  
(H<sub>2</sub>SO<sub>4</sub>), ≤6°C

Glass pH<2  
(H<sub>2</sub>SO<sub>4</sub> or HCl),  
≤6°C

H<sub>2</sub>SO<sub>4</sub>

Holding Time

28 Days

14 Days

28 Days

Notes

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2 x Jars are  
required to allow  
quality control to  
be run

Field filter for DOC

# WATER

## Ferrous Iron



## Heavy Metals



## Volatile Organic Compounds (VOC)



Analytes

Ferrous Iron

Standard and trace level heavy metals

BTEXN plus TRH (C6-C10)

Preservation

Plastic  $\leq 6^{\circ}\text{C}$ ,  
Field Filtered  
0.45 $\mu\text{m}$  HCl

Plastic pH<2  
(HNO<sub>3</sub>) field filter  
0.45 $\mu\text{m}$  (dissolved)

Glass  $\leq 6^{\circ}\text{C}$  pH<2  
(HCl or H<sub>2</sub>SO<sub>4</sub>)

Holding Time

7 Days

6 Months,  
28 Days for Hg

7-14 Days

Notes

Zero Headspace

Total and dissolved metals requires two bottles (1 filtered)

2 x 40 mL vials required for each sample, zero headspace

# AIR

## Absorbent Tubes



## VOC/Pressurised Canisters



## Dust Deposition



Analytes

Charcoal Tubes and Filters

VOC Parameters

Dust deposition gauges AS/NZS3580.10.1

Preservation

None

None

Copper Sulfate

Holding Time

30 Days at 5°C

30 Days

30 Days

Notes

Ship at ambient temperatures

Contact Eurofins before commencing project

Caution during transport

# AIR

## Asbestos



## Filters



## WMS-LU Passive Sampler



Analytes

Volume  
Measurement

Particles, Metals,  
Crystalline Silica,  
Inhalable &  
Respirable dust

VOC's

Preservation

None

None

After sampling  
store sampler  
within vial &  
packaging provided

Holding Time

Indefinite

None

30 Days

Notes

National OH&S  
Commission Guidance  
Note on Membrane  
Filter Method for  
Estimating Airborne  
Asbestos Fibres  
NOHSC:3003

Used for Hygiene  
Sampling.  
Maintain filters  
upright during  
Transport

Used for  
qualitative  
soil vapour  
assessments



## Radiello



## Ghost Wipes



## Methamphetamine



Analytes

VOC's

Lead

Methamphetamine and 5 precursors

Preservation

After sampling store in packaging provided

After sampling store in packaging provided

After sampling store in packaging provided

Holding Time

30 Days

180 Days

7 Days

Notes

Passive Air Quality Monitoring Applications

Surfaces and dust

Sample Kit:  
NIOSH 911  
and clandestine labs

# SOIL

## Per- and Polyfluoroalkyl Substances (PFAS)



## Sludges, Soils and Solid wastes



## Marine Sediments



Analytes

PFAS (n=30)  
+ Extended Suite,  
TOP and TOF  
Assay

SVOC, VOC, Metals,  
Inorganics conduc-  
tivity, pH etc.

National  
Assessment of  
Guidelines for  
Dredging (NAGD)

Preservation

$\leq 6^{\circ}\text{C}$  or  $\leq -20^{\circ}\text{C}$

$\leq 6^{\circ}\text{C}$

$\leq 6^{\circ}\text{C}$

Holding Time

28 Days or  
90 Days

7-180 Days

7-180 Days

Notes

Avoid contact  
with Teflon

SVOCs 40 Days from  
extraction,  $\text{SO}_4^{2-}$ , pH  
are extracted as (1:5  
aqueous extracts) if  
 $\text{CaCl}_2$  or other extract-  
ants, please inquire.  
TCLP/ASLP

Contact  
Eurofins before  
commencing  
project

## Acid Sulfate Soil



## Asbestos



## Swabs



Analytes

Chromium Suite,  
SPOCAS,  
 $\text{pH}_F/\text{pH}_{\text{FOX}}$ Soil, Building  
MaterialsPresence / Absence  
Surface Coliforms and  
E. coli, Surface Fungi  
and Bacteria

Preservation

Frozen

None

 $\leq 6^\circ\text{C}$ 

Holding Time

24 Hours,  
Frozen: Indefinite

Indefinite

48 Hours at  
5-8°C

Notes

Minimise contact  
with air (eg: Place  
soil in sealable  
plastic bags, with  
air excluded)Sample quantity:  
AS4964: 60 mL,  
NEPM/WA  
guidelines: 500 mLShip chilled with ice  
brick, Coliforms & E.coli  
received Fridays will  
be stored at 4-8°C,  
processed the following  
Monday and reported  
Tuesday

Microbiological



Air-O-Cell®



Bio-Tape®



Analytes

All  
microbiological  
parameters

Viable / Non-Viable  
Fungal spore analysis,  
Combustion Products  
and Comprehensive  
Microscopy

Viable / Non-Viable  
Fungal spore analysis,  
Combustion Products  
and Comprehensive  
Microscopy

Preservation

Plastic  $\leq 6^{\circ}\text{C}$ ,  
0.008%  $\text{Na}_2\text{S}_2\text{O}_3$

$< 40^{\circ}\text{C}$ ,  
Inlet / Outlet  
stickers replaced

"Peel and Discard"  
sticker removed,  
in plastic holder  
clipped closed

Holding Time

24 Hours

Indefinite

Indefinite

Notes

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-

-



Environment Testing

Sydney

Melbourne

Brisbane

Perth

Canberra

Newcastle

Adelaide

Darwin

Geelong

Wollongong

Auckland

Christchurch



Scan QR Code  
to access  
Safety Data Sheets (SDS)

[www.eurofins.au/environment](http://www.eurofins.au/environment)