



LabNews

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WA Landfill Waste Classification Suites

- ▶ **ALS offers the full suite of NATA accredited soil analyses to comply with DEC Waste Classification requirements.**

The WA Department of Environment and Conservation (DEC) "Landfill Waste Classification and Waste Definitions Guideline - 1996 (as amended 2009)" provides acceptance criteria for waste to licensed landfills. ALS offers the full suite of NATA accredited soil analyses to comply with DEC Waste Classification requirements. New ALS packages provide clients with an efficient way of requesting the required groups of analytes for waste classification.

To assist clients and simplify requests, ALS Perth has formulated three different Waste Classification Packages as follows:

- FULL suite for WA waste classification **P-19/1**
- METALS suite **P-19/2**
- SHORT suite **P-19/3**

The following page shows the DEC required limits of reporting (CT1), compliant ALS LORs and the contents of each ALS package.

Different Waste Disposal facilities will require different analyses in their suites, generally either the Full, Short or Metals Suite. To determine which suite is the most appropriate, ALS recommends you contact the Waste Disposal facility directly or contact one of the ALS Perth Client Services team who will be able to assist the choice of analysis.

Client Services – alsenviro.perth@alsglobal.com



Contaminant Threshold (CT) Values for CT1 Waste

ALS LORs that are equal to or lower than (i.e. comply with) the GCT1 Guideline are shaded green. Analytes included in each ALS package are denoted by a tick (✓).

Contaminant	P19/1	P19/2	P19/3	Method Reference	CT1 (mg/Kg)	ALS LOR (mg/Kg)
Metals						
Arsenic	✓	✓	✓	USEPA 6020 ICP/MS	14	5
Beryllium	✓	✓	✓		2	1
Molybdenum	✓	✓	✓		10	2
Nickel	✓	✓	✓		4	2
Silver	✓	✓	✓		20	2
Aluminium, Copper, Manganese, Vanadium, Zinc	✓	✓	✓		50,000	5
Barium	✓	✓	✓		50,000	10
Boron	✓	✓	✓		50,000	50
Cobalt	✓	✓	✓		50,000	2
Cadmium	✓	✓	✓		0.4	0.1
Lead	✓	✓	✓		2	0.1
Selenium	✓	✓	✓		2	1
Mercury	✓	✓	✓		0.2	0.1
Chromium (Hexavalent)	✓	✓	✓		APHA 3500 -Cr	10
Other Inorganic Species						
pH	✓	✓	✓	APHA 4500 H+ B	N/A	0.01 (pH unit)
Cyanide (WAD)	✓			APHA 4500-CN	7	1
Cyanide (Total)	✓			APHA 4500-CN	16	1
Fluoride Total	✓			In house fusion	300	40
Non-chlorinated Organics						
Benzene	✓		✓	USEPA 5030/8260 P&T GC/MS	0.2	0.2
Ethylbenzene	✓		✓		60	0.5
Toluene	✓		✓		160	0.5
Xylenes (total) ^	✓		✓		120	1.0
Styrene (vinyl benzene)	✓				6	0.5
TRH (C6-C40)	✓		✓	USEPA 3510/8015 USEPA 5030/8260	N/A	10-100
Phenols (total)	✓			APHA 5530 B&D	28.8	1
Cresols (total) Phenols (non-halogenated)	✓			USEPA 3510/8270 GC/MS SIM	400	0.5-1
PAHs hydrocarbons (total) ^	✓		✓		100	0.5
2,4-D	✓			LC/MS	0.02	0.02
Organochlorine Pesticides (total) ^	✓			USEPA 8270 GC/MS	50	0.05-0.2
PCBs	✓			USEPA 8270 GC/MS	50	0.1
TPH Speciation	✓		✓	MA DEP, 1994	450	90-100
Leachate ASLP						
Acetic acid ASLP (All metals listed above)			✓	AS 4439.3	Various	Various

Reference: Western Australian Department of Environment and Conservation Landfill Waste Classification and Waste Definitions 1996 (as amended 2009)

^ Denotes that the result is computed from the 'sum of individual analyte concentrations at or above the LOR'.