

Phase 3 – site assessment and remediation

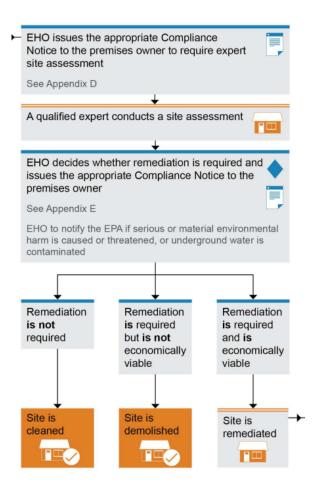
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Health Protection Programs







3 Expert assessment and remediation



Note: Exclusions may apply in the case of cultivation and extraction of Cannabis oil, psilocybin mushrooms, and other non-chemical synthesis illicit substances manufactured.

[COUNCIL]

Compliance Notice

Issued pursuant to Section 92 of the South Australian Public Health Act 2011

NOTICE NUMBER: [INSERT REFERENCE NUMBER]

DATE: [INSERT DATE]

FROM: [INSERT COUNCIL]

[Address line 1]

FO: [name or a description sufficient to identify person]

ADDRESS: [Address line

[Address line

ATTENTION: [Name]

You are the [OWNER] of the premises situated at [ADDRESS], comprised in Certificate of Title Volume [XX] Folio [XX] in the State of South Australia ("the premises").

Pursuant to section 92(1) of the South Australian Public Health Act 2011 ("the Act"), the [COUNCIL] ("the Council") may issue a notice for the purpose of-

- a) securing compliance with a requirement imposed by or under the Act (including a requirement imposed under a regulation or a code of practice under the Act); or
- b) averting, eliminating or minimising a risk, or a perceived risk to public health.

Practice Guideline for the Management of Clandestine Drug Laboratories under the South Australian Public Health Act 2011

Health Protection Fact Sheet

A clandestine drug laboratory has been detected on my property – what happens now?

Clandestine drug laboratories (clan labs) are premises or vehicles in which unlawful manufacture or attempted manufacture of controlled drugs such as methamphetamine have occurred, or where chemicals, equipment or waste materials related to unlawful manufacture of a controlled drug have been located



Clan labs that are detected by police are notified to public health authorities.

The unlawful manufacture of controlled drugs can result in long-term contamination of premises. As this contamination is potentially hazardous to human health, the property owner must ensure premises where a clan lab has been detected is safe before they can be

Why are clan labs a risk to public health?

Can also operations use improvised equipment, materials and emittods during the drug manufacture process and may liquidly dispose of waste products. This can result in significant and widespread chemical contamination throughout a property. Exposure to these chemicals is considered a solicitud can stee to hear a many of the chemicals are toxic, immanified and/or comotive. Stort-term exposure to these chemicals can result in masses, vomiting, headcurbed intrability, hyperactive, behavioural chemicals can result in masses, which is intrability, hyperactive, behavioural chemicals and device can device the intrability, hyperactive, behavioural chemicals and device can device the intrability, hyperactive, behavioural chemicals and device can be made to the contrability of the contrability.

Given the health risks posed by these chemicals, it is important that occupation of premises where a clan lab has been detected is prevented until the nature and extent of the chemical contamination is assessed and any required remediation has been completed.

What happens when a clan lab is detected?

When a clan lab is detected, the police will investigate and seize equipment and other items as evidence to support any legal proceedings. The police then notify the relevant public health authority to ensure any potential public health risks in the property are addressed.

If a clan lab is identified on a property, <u>do not touch it or attempt to shut it down</u>.

Immediately contact police by telephoning triple zero (000) so that experts who are property trained in the safe diamantifing and handing of equipment and products used in the manufacturing process may be dispatched. Altempts to shut down or dismantle an active clan

What happens when public health authorities are notified?

A site assessment notice under the South Australian Public Health Act 2011 will be issued or the property owner by the relevant public health authority (usually the local council), requiring the property owner to:

Contact the owner and issue the site assessment notice ASAP

- > Regardless of category in most cases
- > Use the notice template
- > Risk to health not general duty
- Attach SAPOL summary for premises owner and contact details for reporting officer
- Attach fact sheets for property owner and suitably qualified expert
- Require assessment of the entire property not just the shed, granny flat etc. where lab/equipment was found
- Monitor occupancy status
- Consider action on default

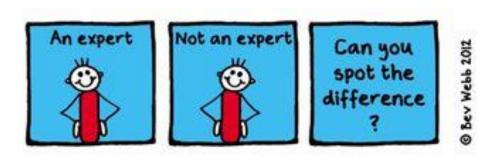






Suitably qualified expert

Someone with <u>experience</u> in the fields of environmental engineering, environmental science, environmental health or occupational hygiene and who is <u>in</u> <u>possession of tertiary qualifications in one</u> <u>of these disciplines</u> from a recognised educational institution





Review the site assessment

- > Suitability of assessor
- How the assessment was undertaken
- Appropriate follow up actions based on the nature of the risks and intended future use of the premises
- > EPA notification (if required)
- > Investigation levels (ILs) exceeded?
- > Remediation action plan
- If necessary contact HPP for assistance / advice
- If unsatisfactory further assessment may be required



Sampling program

- > Rationale provided
- > Detailed sampling records/photographs
- NIOSH 9111/9106/9109 compliant or equivalent (LC-GC/MS)
- > Composites
- > Presumptive screening
- > Quality control media, trip and field blanks
- Methamphetamine, MDMA (ecstasy), pseudo/ephedrine, iodine, others



Sampling program

- Minimum five non-porous surface samples inside the building plus outbuildings
- Sample areas that show evidence of contamination
- Surfaces used in the drug manufacturing
- Any room or area inhabited by a child under 16 years of age
- Avoid recently cleaned areas and behind furniture
- Ventilation ducts



Sampling program

- Volatile organics
 - All rooms: where chemical processes though to have taken place, where chemicals or equipment were stored, where there is evidence of staining any bedroom or play room of a child <16 years.
- > Wastewater
 - Assess and sample if necessary
- > Soil
 - Any evidence of contamination, septic bed minimum two samples from well travelled paths if no evidence of contamination
- Solution > Groundwater and surface water
 - If applicable refer to National Guidelines

Investigation Levels

APPENDIX 1: Summary of Investigation Levels (ILs) – Assessment of Former Clandestine Lab Sites

	Residential (A)			Recreational (E)	Commercial/Industrial (F)			Environmental #	
	Indoor Criteria		Outdoor	Outdoor	Indoor Criteria		Outdoors	Outdoors	
Key Chemical	Surface (µg/100cm²)	Air (mg/m²)	Soil (mg/kg)	Soil (mg/kg)	Surface (µg/100cm²)	Air (mg/m²)	Soil (mg/kg)	Soil (mg/kg)	Water (mg/L)
Methamphetamine	0.5	b	5	5	10	b	45	X	x
MDMA	7	b	60	60	130	b	600	X	x
Pseudo/Ephedrine	600	b	6000	6000	10000	b	50000	X	Х-
Ammonia	а	0.1	1800	1800	а	0.3	10000	х	0.9 ^{AFM} *
lodine	20	0.0008	2	2	450	0.003	6	4 ^u	x
Bromide	2000	0.0008	2	2	50000	0.003	4	10 ^u	x
Phosphorus	0.07	b	0.6	0.6	2	b	7	х	AFM++
N-Methylformamide	10	b	120	120	270	b	1200	х	x
Methylamine	a	0.004	70	70	а	0.01	600	х	x
Nitroethane	а	0.4	4400	4400	a	1	20000	X	x
Boron and compounds	1800	b	3000 (N)	6000 (N)	40000	b	15000 (N)	0.5 ^u	0.37 ^{AF} , 5.1 ^{AM}
Mercury (inorganic)	35	b	15 (N)	30 [N]	800	b	75 (N)	1 (NE)	0.0006 ^{AF} , 0.004 ^{AM}
Lithium	46	b	230	230	1000	b	5700	2 ^u	0.014 ^u
Benzaldehyde	1500	0.4	6300	6300	35000	1	35000	0.60	0.01°
Phosphine	а	0.0004	С	С	a	0.001	С	X	x
Safrole and isosafrole	16	0.0002	1	1	16	0.001	6	0.4 ^u	x
Chloroform	а	0.1	240	240	а	0.4	1400	1.2°, 170°	0.37мм
Dichloromethane	а	1	120	120	а	4	3300	4 0,0	4AFM
Benzene	а	0.0095 (A)	1 (S)	1 (5)	а	0.0095 (A)	1 (S)	210 ^R	0.95 ^{AF} , 0.5 ^{AM}
Toluene	а	0.4 (A)	130 (S)	130 (S)	a	0.4 (A)	130 (S)	1.4 (S)	0.18 ^{AEM}
Ethylbenzene	а	26	50 (S)	50 (S)	a	80	50 (S)	3.1 (5)	0.08 ^{AF} , 0.005 ^{AM}
Xylenes	a	0.9 (A)	25 (S)	25 (S)	а	0.9 (A)	25 (S)	14 (5)	0.2 to 0.35 ^{AFM}
TPH									
C6-C9 (aliphatic)^^	a	0.8	1800	1800	a	3	4000	130°	x
C10-C14	a	0.2	1000 (S) C10-C36,	1000 (S) C10-C36,	a	0.7	1000 (S) C10-C36,	150°	x
C15+	140	ь	90 (N)	180 (N)	3000	ь	450 (N)	400°	x
рН	6.5-8.5	ь	6.5-8.5	6.5-8.5	6.5-8.5	ь	6.5-8.5	х	[6 to 9] A**





Remediation required

- Issue remediation and validation notice using template provided (remove suitably qualified expert for remediation) - perhaps replace with cause remediation to be undertaken
- Cleaners should be independent of assessor(s) to avoid conflict of interest
- > Monitor occupancy status
- Consider action on default



Workshop 2

- Site assessment and remediation
- As the investigating EHO you issued the section 92 Site Assessment Notice and you have just received the Site Assessment Report from the property owner. Assess the report and decide what actions you will take.



SA Health