





Methamphetamine Test Certificate

Property Details:

Address:

s 9(2)(a)

Auckland

Job Number:

S1630

Testing Date:

13 July 2017

Property Reference:

TUS0002661

Works Order Number:

WO1656541

JER THE 1982 This property is suitable to be occupied

- Testing for methamphetamine contamination was performed on the above date
- The analysis of samples was subcontracted to an IANZ accredited laboratory
- The limits outlined in NZS 8510.2017 Testing and decontamination of methamphetaminecontaminated properties are:
 - 1.5 μg/100cm² (in high-use areas)
 - 3.8 μg/100cm² (in low-use areas)
- All methamphetamine test results are below this standard



Key Technical Person

Job Number: \$1630

K2 Environmental@ Issue: 1

Report Date: 20 July 2017







South Island – Head Office	North Island Office
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Housing New Zealand Corporation Retest 1 Methamphetamine



Auckland

s 9(2)(a)							
TUS0002661							
WO1656541							
KTP Signature							
s 9(2)(a)							

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EXECUTIVE SUMMARY

- Remediation Passed
- This property is suitable to be occupied

1.1 Detail

- Methamphetamine was detected in the one location tested
- All methamphetamine results are now below the Standards New Zealand recommended limit of 1.5 µg/100cm² for high-use areas
- Testing and sampling was performed in accordance with the 2016 Ministry of Health guidelines²

2 SITE INFORMATION

On the 13th July 2017, a retest 1 site investigation for methamphetamine was undertaken at s 9(2) s 9(2)(a) , Auckland.

Sampling was undertaken to determine what level of methamphetamine contamination is present.

Reason for testing: Retest 1

Property reference number: TUS0002661 Works Order reference number: WO1656541

2.1 Conditions of the Interior of the Dwelling

- Majority of the dwelling has been completely stripped
- Surfaces appear to have been cleaned well
- Interior is in a clean and tidy condition
- The garage and lounge appear to be slightly fire damaged

2.2 Conditions of the Exterior and Grounds

- Garage is empty and clean
- Garage door is dented
- Lawns and vegetation are tidy and well maintained
- Faeces are present at the front entrance
- Rubbish has been removed

 $^{^{}m 1}$ Standards New Zealand. NZS 8510:2017: Testing and decontamination of methamphetamine-contaminated properties. Standards NZ, 2017.

 $^{^2}$ Ministry of Health review. Review of remediation standards for clandestine methamphetamine laboratories. Risk assessment recommendations for New Zealand. Oct 2016,

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3 **DISCLAIMER**

Limited sampling was performed. Variations in surface contamination are possible. The results only present a snapshot of surface conditions.

While a high result may indicate that there is a hazard which needs to be managed, a low result or a non-detect does not necessarily mean a complete absence of a hazard.

ACCREDITATION

K2 Environmental Ltd is IANZ accredited for methamphetamine sampling using a surface swabbing technique. Sampling is conducted in accordance with an in-house method based on NIOSH 9111.

An experience at experience at the company of the c Recommendations and opinions expressed in this report are based on experience and knowledge of involved substances. These are not covered by accreditation.

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SITE MAP

The following is a map indicating where samples were collected from.

Note: This map is not to scale and is to be used as an indication only.

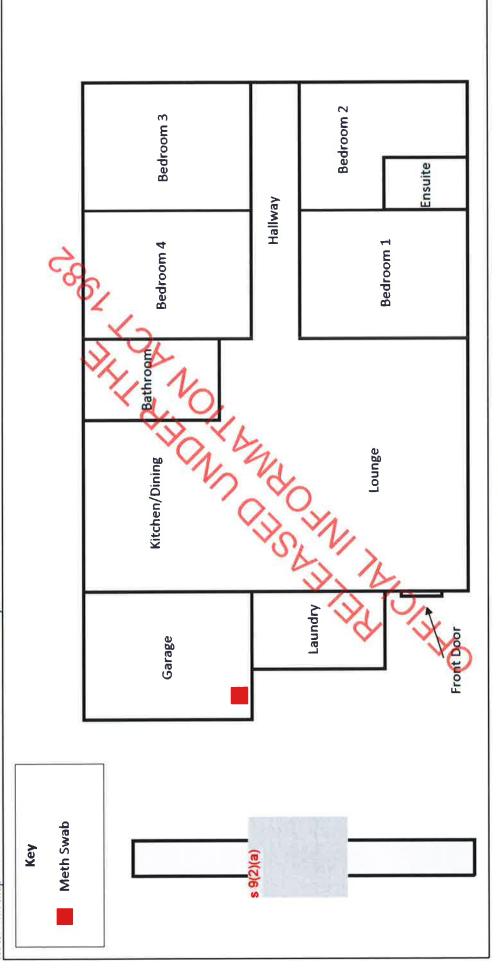


Figure 1 Site Map Showing Sample Locations

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RESULTS AND RECOMMENDATIONS 9

The following tables detail the results of sampling for methamphetamine at the above property. Analysis of these samples has been subcontracted to an IANZ accredited laboratory, all samples were analysed using LC-MSMS (Modified method based on NIOSH9111).

Table 1: Guide to Results and Actions Recommended

Below Standards NZ Recommended Limit ³	Precautionary Clean Recommended -	Above Standards NZ Recommended Limit
Or	as there are elevated contamination levels	JO.
No Action Needed	detected in other locations	Remediation required

Table 2: General recommendations sable Items Initial (Third Party) AR Post Remediation Retest 1 Air quality Air quality AC AR AC AR Ail surfaces All surfaces NI HEPA NAN NAN NAN All surfaces All surfaces NI REM NAN NAN NAN Carpet, curtains, blinds, & wallpaper NI REM NAN NAN NAN Oven, Appliances, & Whiteware NI REM NAN NAN NAN Ceriling vents, fans, & extractions NI REM NAN NAN NAN Ceiling insulation - Removed NI REM NAN NAN NAN Underfloor insulation NI REM NAN NAN NAN	See appendix	See appendix A.3, A.4, and A.5 for the summary of abbreviations used in the following tables.	ıg tables.	5) 5)			
Initial (Third Party) Part Remediation Items Act AC AR AC Air quality All surfaces All surfaces All surfaces All surfaces All surfaces Carpet, curtains, blinds, & wallpaper NI REM NAN NA Light fittings, switches, & electrical fixtures NI REM NAN NA Oven, Appliances, & Whiteware NI REM NAN NA Heat pump, heaters, & climate control appliances NI REM NAN NA Ceiling vents, fans, & extractions NI REM NAN NA Ceiling insulation - Removed NI REM NAN NA Underfloor insulation NI NAN NA NA		Table 2: General rec	commendations tal	, Y			
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All surfaces All surfaces All surfaces Carpet, curtains, blinds, & wallpaper Light fittings, switches, & electrical fixtures Oven, Appliances, & Whiteware Heat pump, heaters, & climate control appliances Ceiling vents, fans, & extractions Ceiling insulation - Removed Underfloor insulation All Surdace Nah BEM NAN NAN NAN NAN NAN NAN NAN NAN NAN NA		Items	C NG	AC	AR	AC	AR
All surfaces Carpet, curtains, blinds, & wallpaper Light fittings, switches, & electrical fixtures Oven, Appliances, & Whiteware Heat pump, heaters, & climate control appliances Ceiling vents, fans, & extractions Ceiling insulation - Removed Underfloor insulation All BEMA NaN NAN NAN NAN NAN NAN NAN N		Air quality)/3	Scrub+Vent	NAN	NA	NAN
Carpet, curtains, blinds, & wallpaperNiREMNANNALight fittings, switches, & electrical fixturesNiREMNANNAOven, Appliances, & WhitewareNiREMNANNAHeat pump, heaters, & climate control appliancesNiREMNANNACeiling vents, fans, & extractionsNiREMNANNACeiling insulation - RemovedNiNANNANAUnderfloor insulationNANNANNANA		All surfaces	/NZ	НЕРА	NAN	NA	NAN
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Oven, Appliances, & Whiteware Heat pump, heaters, & climate control appliances Ceiling vents, fans, & extractions Ceiling insulation - Removed Underfloor insulation Oven, Appliances, & Whiteware Ni REM NAN NAN NA N	uəg	Light fittings, switches, & electrical fixtures	Z	REM	NAN	NA	NAN
NI REM NAN NA)	Oven, Appliances, & Whiteware	Z	REM	NAN	NA	NAN
REM NAN NA		Heat pump, heaters, & climate control appliances	Z	REM	NAN	NA	NAN
REM NAN NA NA		Ceiling vents, fans, & extractions	Ž	REM	NAN	NA	NAN
NAN NAN NA		Ceiling insulation - Removed	Z	REM	NAN	NA	NAN
		Underfloor insulation	Z	NAN	NAN	NA	NAN

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 $^{^3}$ Standards NZ Recommended limits are detailed in appendix A.6

Table 3: Methamphetamine results

	AR	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN
	Material	NA	NA	TILE	AL-PC	WD-B	WD-B	NA	NA	NA	NA	NA	NA	GIB-P	GIB-P	CON-B	WD-B	AL-PC	WD-P	AL-PC	WD-P	WD-P
Retest 1	Level																					
	Area Tested																					
	Ref.																					
	AC	NA	JAN	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA A	NA	NA	NA	NA	NA	NA	NA
	AR	NAN	NAN	NAN	NAN	NAN	-NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN
Post-Remediation	Material	NA	NA	TILE 🖊	AL-PC	WD-B	KWD-B 🛇	, YAN	(CAA	NA	NA	NA	NA.	GIB-P	GIB-P	CON-B	WD-B	AL-PC	WD-P	AL-PC	WD-P	WD-P
Post-Re	Level	0.03	0.29				0.23		N	7	11	2										
	Area Tested	Framing	Framing				Frame					S	つ、ん	71	11	>,						
	Material	Z	Ž	TILE	AL-PC	WD-P	d-QM	ž	ž	Z	N	ĬŽ	Ī2	d-8i9	d-919	CON-BY	d-QM	ALPC	d-QM	AL-PC	d-QW	WD-P
	Level	0.33	29.6							52.6					0.16		1.3		0.71	O		
Initial (Third Party)	Area Tested	Wall	Ceiling							Cupboard					Ceiling		Door		Window			
Initia	ltem	Walls	Ceiling	Flooring	Doors	Doors	Windows	Skirtings	Mouldings	Cabinetry	Range-hood	Sink	Bench	Walls	Ceiling	Flooring	Doors	Doors	Windows	Windows	Skirtings	Mouldings
	Location						uəu	Kitcl									а	3un	01			

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N.	AR	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN
N.X.	Material	GIB-P	TILE	GIB-P	TILE	NA	WD-B	AL-PC	TILE	WD-P	LAM	CRMC	PLSTC	AL-PC	CRMC	NA	NA	NA	NA	NA	NA	NA
Retest 1	Level																					
	Area Tested																					
	Ref.																					
	AC	NA	NA	WW	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AN A
	AR	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN
Post-Remediation	Material	GIB-P	TILE	GIB-P	TILE 🖊	DIA	WD-B	AL-PC V	4	d-QM)	LAM	CRMC	PLSTC	AL-PC	CRMC	NA	NA	NA	NA	NA	NA	NA
Post-Re	level						0.20		C	1	5	4	12	ý		0.13	0.29					
	Area Tested						Frame					01	500	つべる	M	Wall	Ceiling Ceiling					
	Material	GIB-P	TILE	GIB-P	TILE	N	d-QM	AL-PC	TILE	d-QM	LAM	CRMC	PLSTC	AL-PC	CRIVIC	JAN C	DIN	8-NOO	N.	IN)	Z	Z
	Level			0.33			8.5				0.95					1.4	18.3			~(O	
Initial (Third Party)	Area Tested			Ceiling			Window				Cabinet					Wall	Ceiling					
Initia	Item	Walls	Walls	Ceiling	Flooring	Doors	Windows	Windows	Skirtings	Mouldings	Cabinetry	Sink/Vanity	Bath	Shower	Toilet Bowl	Walls	Ceiling	Flooring	Doors	Skirtings	Mouldings	Cabinetry
	Location							uoo.	ıdte	8								Λŧ	MILE	°H	i i	

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	AR	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN
	Material	NA	NA	NA	NA	WD-B	AL-PC	NA	NA	NA	NA	NA	NA	NA	WD-B	AL-PC	NA	NA	NA
Retest 1	Level																		
AL THE	Area Tested																		
T.	Ref.																		
	AC	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AR	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN
Post-Remediation	Material	NA	NA	NA	NA <	W.D-B	AL-PC	NA A	JAN ((SIA)	NA	NA	NA	NA	WD-B	AL-PC	NA	NA	NA
Post-Re	Level		0.10			0.20		1		1	2	1	12						
	Area Tested		Ceiling			Frame						S.	いくく	つくる	71		>		
	Material	Z	Z	CON-B	Z	MD-P	AL-PC	Z	Z	N	IN	N	CON-B	IN	WD-P	Alepc	N	NIN)=
	Level		5.8							3.2	0.27	90.0							
Initial (Third Party)	Area Tested		Ceiling							Door	Wall	Ceiling							
Initia	ltem	Walls	Ceiling	Flooring	Doors	Windows	Windows	Skirtings	Mouldings	Cabinetry	Walls	Ceiling	Flooring	Doors	Windows	Windows	Skirtings	Mouldings	Cabinetry
	Location				Ţu	1001	bed	•						zu	1001	pag			

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3	AR	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN
	Material	NA	AN	NA	NA	WD-B	AL-PC	NA	NA	NA	GIB-P	GIB-P	CON-B	NA	WD-B	AL-PC	WD-P	WD-P	WD-P
Retest 1	Level																		
	Area Tested																		
	Ref.																		
	AC	NA	NA	NA.	3	NA	NA	NA	NA	NA	NA NA	NA	NA	NA	NA	NA	NA	NA	NA
	AR	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN
Post-Remediation	Material	NA	NA	NA	NA <	WD-B	AL-PC	NA V	NA.	NA NA	GIB-P	GIB-P	CON-B	NA	WD-B	AL-PC	WD-P	WD-P	WD-P
Post-Re	Level		0.18			0.08			C	2	7	7	4						
	Area Tested		Ceiling			Frame						O'	\$ \ \$ \ \$ \	つくる	M	1	>,		
	Material	Z	Ž	CON-B	Z	d-QW	AL-PC	ž	Z	N	GIB-P	GIB-P	CON-B	N	WD-P	3d-14	A-dM	d-QM	d-gw/
	Level		5.7			1.8					0.18	90'0							
Initial (Third Party)	Area Tested		Ceiling			Window					Wall	Ceiling							
Initia	ttem	Walls	Ceiling	Flooring	Doors	Windows	Windows	Skirtings	Mouldings	Cabinetry	Walls	Ceiling	Flooring	Doors	Windows	Windows	Skirtings	Mouldings	Cabinetry
No.	Location				εu	1001	pəg							ъu	7007	pəg			

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Area Tested Level Material AR AC Ref. Tested Level Material AR NA
NA
TILE NAN NA TILE NA NAN NA NA NA-PC NA NAN NA NA NA NA NAN NA NA NA NAN NA NA NA NAN NA NA NA NAN NA NAN NA
TILE NAN NA TILE NA NAN NA NA NA-PC NA NAN NA NA NA NA NA NA NA CRMC NAN NA CRMC PISTC NAN NA CRMC
AL-RC NAN NA
AL-BC NAN NA AL-PC NAN NA
AL-PC NAN NA AL-PC NA NAN NA NA NA NA NAN NA NA NA CRMC NAN NA CRMC
NA CRMC NAN NA CRMC
MA NA NA NA NA CRMC CRMC NAN NA CRMC
CRMC NAN NA CRMC
CRMC NAN NA CRMC
PISTC NAN NA PISTC

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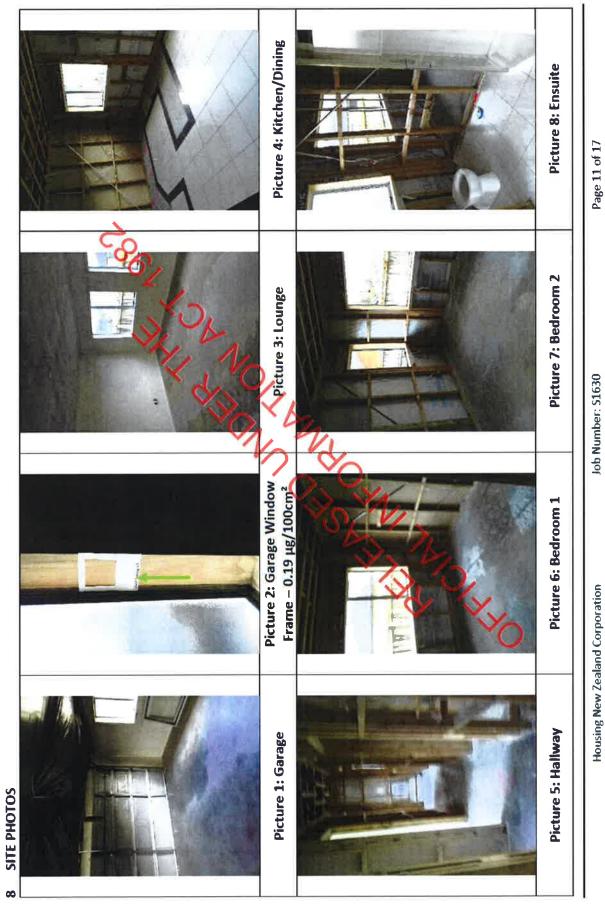
s 9(2)(a) , Auckland

Name	Location						No.	POST-NCINCULATION		0				No. of Persons	
Walls Wall			Area Tested	Level	Material	Area Tested	Level	Material	AR	AC	Ref.	Area Tested	Level	Material	AR
Walls NI		Walls	Wall	0.87	GIB-P			GIB-P	NAN	NA				d-8I9	NAN
Ceiling Ceiling 118		Walls			Z			NA	NAN	NA				A A	NAN
Flooring CON-B NaN One CON-B CON-B NaN One CON-B		Ceiling	Ceiling	11.8	Z			NA	NAN	¥.				NA	NAN
Doors Multiple Frame 9.3 WuD-P Frame 9.4 NuD-P Frame 9.4 NuD-P Frame 9.4 NuD-P N	а	Flooring			CON-B			CON-B	NAN	3				CON-B	NAN
Doors Numbers Numbers Numbers Numbers Numbers New Zealand maximum concentration of methamberamine comfamine comfamine comfamine to Frequency therefore can be occupied.	gele	Doors			WD-P	Frame	9.3	WD-B	REM	REM				NA	NAN
Doors Windows WD-P WD-B NAN NA 1 Frame 0.19 W Windows Al-PC	:9	Doors			AL-PC			AL-PC	CLE	NC NC				AL-PC	NAN
Windows Name of the Name of Market o		Doors			Z			NA NA	NAN	Ā				NA	NAN
CONCLUSION CONCLUSION E Standards New Zealand maximum concentration of methample-tamine-contamination is 1.5 µg/100cm² in high-use areas, as detailed in NZ's are property therefore can be occupied.		Windows			WD-P		C	MD-B	NAN	A A	1	Frame	0.19	WD-B	NAN
to occupation of Property his property therefore can be occupied.		Windows			AL-PC		1	ALPC	NAN	¥				AL-PC	NAN
1 Occupation of Property his property therefore can be occupied.	CONC	TUSION				9	24								
ocations have tested below this leve Occupation of Property property therefore can be occupied.	ne Stanc	lards New Zeala	and maximum cc	oncentrati	ion of metha	ampbetamine	ontamin	ıation is 1.5 μ	100cr	n² in hig	sh-use	areas, as d	etailed	in NZS 851	0:201
Occupation of Property property therefore can be occupied.	I locati	ons have tested	l below this leve	-	V) // //									
his property therefore can be occupied.	1 Occ	upation of Prop	perty		S	11									
	nis prop	erty therefore c	an be occupied.		1	>,									
××0					5										
6				~	×										
				0	1-										

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A.1. Lab Reports



T 0508 HILL LAB (44 555 22)

REPORT

Page 1 of 1

K2 Environmental Limited s 9(2)(a) Client: Contact:

C/- K2 Environmental Limited

PO Box 28147 Beckenham Christchurch 8242

1808881 Lab No: Date Received: 14-Jul-2017 Date Reported: 14-Jul-2017 79334 Quote No: Order No: \$1630

Client Reference: WO1656541 s 9(2)(a) s 9(2)(a) Add. Client Ref: Submitted By:

Auckland

Sample Type: Misce	llaneous Wipe				0
	Sample Name:	S1630 1 Garage	S1630-2 Blank		OV
1		WF 13-Jul-2017	13-Jul-2017	1121	~~
	Lab Number:	1808881.1	1808861.2	/,	
Methamphetamine Includir	ng Precursors on Wipe	s by LCMSMS			9
Amphetamine	µg/sample	< 0.02	< 0.02	1	
Ephedrine	µg/sample	r 0 02	< 0.02		
Methamphetamine	µg/sample	0.19	< 0.02	A . ()	74.
Pseudoephedrine	µg/sample	< 0.02	< 0.02	C 0	

Analyst's Comments

Samples 1-2 Comment:

For interpretation of the results presented in this Analysis Report blesse contact the person or company that collected the

Sample Type: Miscellaneous Wij	00 (2)		
Test	Method Description		Default Detection Limit	Sample No
Methamphetamine Including Precursors on Wilpes by LCMSMS	Description with 0.1M Sulphu (modified NIOSH0111).	ic by shaking, LCMSMS analysis.	0 02 µg/sample	1-2

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory

Samples are held at the laboratory after reporting for a length of time depending on the preservation used and the stability of the analytes being tested Once the storage period is completed the samples are discarded unless otherwise advised by the

This report must not be reproduced, except in full, without the written consent of the signatory.

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Client Services Manager - Environmental



This Laboratory is accredited by International Accreditation New Zealand (IANZ), which represents New Zealand in the International Laboratory Accreditation Cooperation (ILAC). Through the ILAC Mutual Recognition Arrangement (ILAC MRA) this accreditation is internationally recognised.

The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of

tests marked havhich are not accredited

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A.2. K2 Environmental Sampling Methodology

Sampling as carried out following the guidelines outlined in NIOSH 9111 - Methamphetamine on wipes by Liquid Chromatography/mass Spectrometry 9111

Sampling Procedure

- A new pair of gloves (not vinyl) are used for each sample
- Gauze which has been pre-moistened with 3-4ml of methanol is used
- A new (named) template is fixed to the sampling surface
- Each position is photographed
- The surface to be sampled is wiped with firm pressure:
 - using vertical strokes followed by
 - o horizontal strokes, then folded again by and then followed by
 - Vertical strokes and horizontal strokes the gauze is then folded with the pad, exposed side in, and placed in shipping container & sealed.
- Each sample clearly Labelled with a unique sample identifier.
- Documentation is completed and samples sent for analysis via courier as soon as practicable.

Blank Samples

A field blank is included with each set of samples for all comprehensive testing.

Sample site Selection

In each room to be sampled the following strategy used to select sampling points:

- High points (fume rises and condenses at higher levels such as ceilings) these are also less likely to have been cleaned
- Areas around windows which are cooler this is where fume is likely to condense
- Painted and varnished surfaces have higher recovery rates
- Hard non-porous surfaces such as benchtops, ranges, range hoods, tiles and glass surfaces. (these will have higher concentrations if present as fume will not have been absorbed)

Areas less likely to be sampled (due to low recovery rates)

- Porous surfaces such as non-vinyl coated wall papers
- Bare wood surfaces
- Pinex walls and tiles (especially if not painted)
- Fabrics, carpets and other furnishings

Recovery Using Methanol Swabs⁴

Surface	Methamphetamine Recovery
Unpainted Dry wall	0.93%
Painted Drywall	74%
Unpainted Plywood	5.7%
Glass	53%
Metal	90%
Tile	12%
Carpet	1.3%

 $^{^4}$ Methamphetamine Sampling Variability on Different Surfaces Using Different Solvents, John W. Martyny, National Jewish Medical and Research Center, October 2008

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A.3. Table of Materials Abbreviations

Material	Abbreviation for tester table
Aluminium	AL
Aluminium - Powder Coated	AL-PC
Brick - bare	BRK-B
Brick - painted	BRK-P
Building Paper	ВР
Carpet	CPT
Cement sheet	CMNTS
Ceramic	CRMC
Concrete - bare	CON-B
Concrete -painted	CON-P
Cinder block - bare	CIND-B
Cinder block - painted	CIND-P
GIB - bare	GIB-B
GIB - painted	GIB-P
Hardboard - painted	HRDB-P
Hardboard - varnished	HRDB-V
Hardiglaze	HGL
Lathe and plaster – bare	L&P
Lathe and plaster - painted	L&P-P
Laminate	LAM
Pinex	PINEX
Plastic	PLSTC
Soft-board Ceiling Tile	SCT
Stainless steel	STEEL
Stipple	STIPPLE
Tiles	TILE
Tin	TIN
Vinyl/lino	VINYL
Wallpaper	WALP
Wallpaper - vinyl	WALP-V
Wallpaper - painted	WALP-P
Wood - bare	WD-B
Wood - painted	WD-P
Wood - varnished	WD-V
Wood - stained	WD-S
Not Applicable	NA
Not Identified	NI

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A.4. Table of Recommended Actions Abbreviations

AR (Action recommended)	Abbreviation for Tester Table
Ventilate rooms with mechanical assistance	Scrub+Vent
Vacuum flooring with H13 rated vacuum cleaner	НЕРА
Item to be removed	REM
Remove coating (e.g. paint/varnish)	CR
Triple Clean – Remediation Required	CLE
Triple clean – Precautionary or Recommended	CLE
Action not identified	NI
No action needed	NAN

A.5. Table of Actions Completed Abbreviations

AC (Action completed)	Abbreviation for tester table
Triple Cleaned with sugar soap – decon. team must advise alternative cleaning products used so a new code cogenerated, decon. team must inform testers if using an other than sugar soap for a specific property	ng be CLF
Item removed	REM
Coating (e.g. paint/varnish) fully removed	CR-F
Coating partially removed	CR-P
Action Not Identified	NI
Not Completed	NC
Not Applicable / No Action	NA

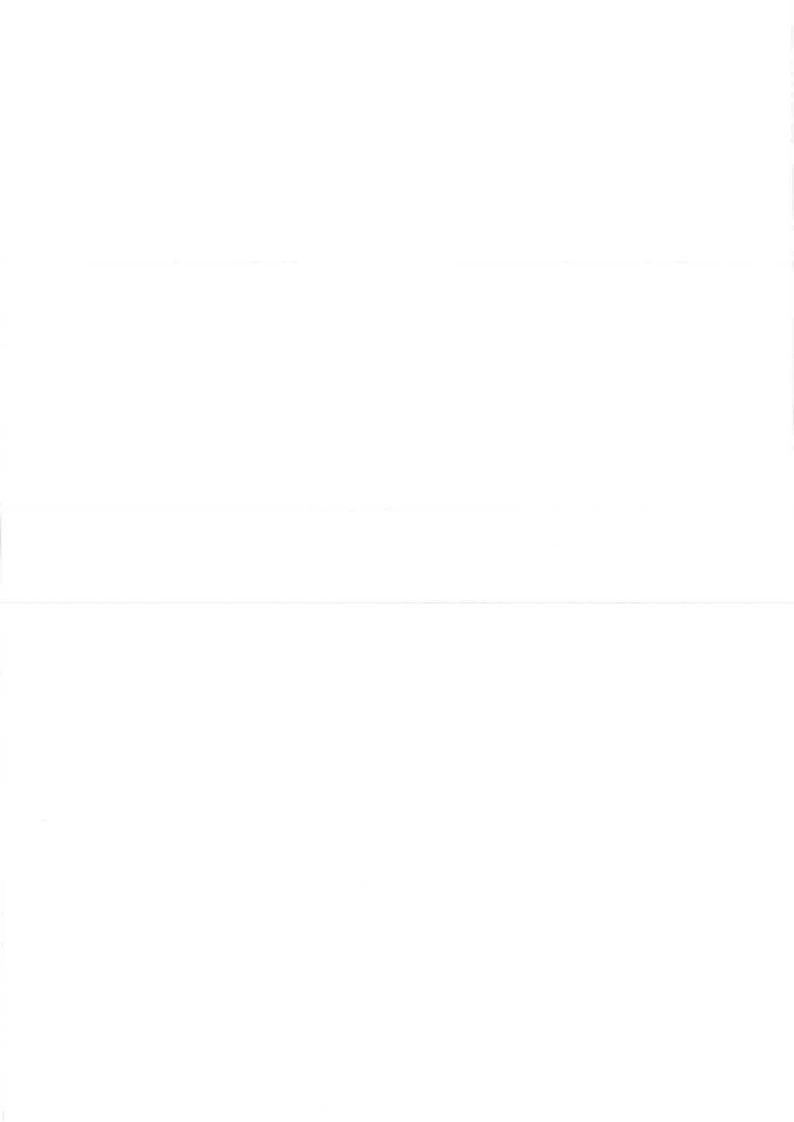
A.6. New Zealand Standards Recommended Limits

NZ Standards Methamphetamine Limit	ts 2017
High-use areas Easily accessed and regularly used by adults and children	1.5 μg/100cm ²
Limited-use areas Accessed for short periods of time only by adults	3.8 μg/100cm²

A.7. Ministry of Health Recommended Limits

Ministry of Health Methamphetamine S	Standard 2016
Former clandestine methamphetamine laboratory	0.5 μg/100cm²
Non-lab houses with carpet present	1.5 μg/100cm²
Non-lab houses with no carpet present	2.0 μg/100cm²

Job Number: \$1630







South Island – Head Office	North Island Office
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Housing New Zealand Corporation
Post-remediation Methamphetamine
Assessment

13th June 2017



Auckland

Sample Team	s 9(2)(b)(i)
Report Author	
Report Checked by	
Key Technical Person	
Property Reference	TUS0002661
Works Order	WO1656541

Author Signature	KTP Signature
s 9(2)(a)	s 9(2)(a)
180 180 T.	

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Job Number: \$1342 Issue: 1 Report Date: 28 June 2017

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1 EXECUTIVE SUMMARY

- Remediation Failed
- This property is not suitable to be occupied

1.1 Detail

- Methamphetamine was detected in thirteen of fourteen locations tested
- One methamphetamine result is above the Ministry of Health recommended¹ limit of 2.0 μg/100cm² for properties with no soft furnishings present

2 SITE INFORMATION

On the 13th of June 2017, a post-remediation site investigation for methamphetamine was undertaken at \$ 9(2)(a) Auckland.

Sampling was undertaken to determine what level of methamphetamine contamination is present.

Reason for testing: Post-Remediation

Property reference number:

Works Order reference number: WO1656541

2.1 Conditions of the Interior of the Dwelling

- Interior is clean and tidy, most walls have been removed
- No rubbish or debris is present
- Interior surfaces all appear to have been cleaned well
- All electrical sockets, light shades and switches have been removed
- All soft furnishings such as carpet and curtains have been removed
- All internal doors and door framing have been removed
- Paint has been stripped from the windowsills
- Ceiling insulation has been removed from throughout

2.2 Conditions of the Exterior and Grounds

- Garage is empty and tidy
- Lawns and vegetation are tidy and well maintained
- Small amount of rubbish has not been removed

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¹ Ministry of Health review. Review of remediation standards for clandestine methamphetamine laboratories. Risk assessment recommendations for New Zealand. Oct 2016,

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3 DISCLAIMER

Limited sampling was performed. Variations in surface contamination are possible. The results only present a snapshot of surface conditions.

While a high result may indicate that there is a hazard which needs to be managed, a low result or a non-detect does not necessarily mean a complete absence of a hazard.

ACCREDITATION

K2 Environmental Ltd is IANZ accredited for methamphetamine sampling using a surface swabbing technique. Sampling is conducted in accordance with an in-house method based on NIOSH 9111.

experience a experience a experience a limitation which have a sed of the experience a experienc Recommendations and opinions expressed in this report are based on experience and knowledge of involved substances. These are not covered by accreditation.

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SITE MAP

The following is a map indicating where samples were collected from.

Note: This map is not to scale and is to be used as an indication only.

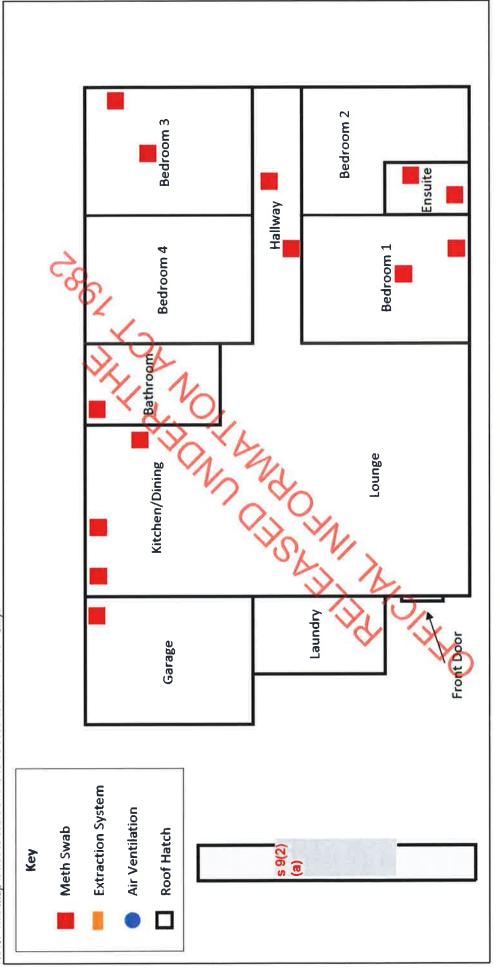


Figure 1 Site Map Showing Sample Locations

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s 9(2)(a) , Auckland

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RESULTS AND RECOMMENDATIONS

The following tables detail the results of sampling for methamphetamine at the above property. Analysis of these samples has been subcontracted to an IANZ accredited laboratory, all samples were analysed using LC-MSMS (Modified method based on NIOSH9111).

Table 1: Guide to Results and Actions Recommended

Below MoH Recommended Limit ²	Precautionary Clean Recommended -	Above MoH Recommended Limit
Or	as there are elevated contamination levels	ō
No Action Needed	detected in other locations	Remediation required

	It is a man of a constant and a substantial for the following the boltonian the bloom	/	5		
adda ə	see appenaix A.4 and A.5 for the summary of appreviations used in the johowing tables. Table 2: General recommendations table	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
	Initial (Third Party)	2		Post Ren	Post Remediation
	Items	AR	AC	AR	AC
	Air quality	IN	Scrub+Vent	NAN	
	All surfaces	IN	HEPA	NAN	
lers	Carpet, curtains, blinds, & wallpaper	N	REM	NAN	
uəg	Light fittings, switches, & electrical fixtures	N	REM	NAN	
)	Oven, Appliances, & Whiteware	IN	REM	NAN	
	Heat pump, heaters, & climate control appliances	IN	REM	NAN	
	Ceiling vents, fans, & extractions	IN	REM	NAN	
	Ceiling insulation - Removed	N	REM	NAN	
	Underfloor insulation	Z	NAN	NAN	

² MoH Recommended limits are detailed in section A.6 below

Housing New Zealand Corporation

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, Auckland

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Table 3: Methamphetamine results

	AC																					
	AR	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN
uo	Material	WD-B	NA	TILE	AL-PC	WD-B	WD-B	NA	NA	NA	NA	NA	NA	GIB-P	GIB-P	CON-B	WD-B	AL-PC	WD-P	AL-PC	WD-P	WD-P
Post-Remediation	Level (µg/100cm²)	0.03	0.29				0.05															
	Area Tested	Framing	Framing 🔿	6 7	L YX	(1)	Frame															
	Ref.	2	3		V		SI	V)	0,													
	AC	REM	REM	CLE	CLE	CR-F	CR-F/	MEIM	REM	REM	WEN	REM	REM	CLE	CLE	CLE	CR-F	CLE	3TO	CLE	CLE	CLE
	Material	N	N	TILE	AL-PC	WD-P	WD-P	ī	Z	N	ON	C JMC	O IN	d dis	GIB-P	CON-B	WD-P	AL-PC	WD-P	AL-PC	WD-P	WD-P
arty)	Level (µg/100cm²)	0.33	29.6							52.6					0.16	とと	1/3/	2	0.71	0		
Initial (Third Party)	Area Tested	Wall	Ceiling							Cupboard					Ceiling		Door		Window			
	ltem	Walls	Ceiling	Flooring	Doors	Doors	Windows	Skirtings	Mouldings	Cabinetry	Range-hood	Sink	Bench	Walls	Ceiling	Flooring	Doors	Doors	Windows	Windows	Skirtings	Mouldings
	Location					3 uị	uiQ/	uəq	Kitc								Э	3un	• • • • • • • • • • • • • • • • • • •			

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Auckland

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Initial (Third Party)

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	s 9(2)(a)

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Housing New Zealand Corporation	3

June 2017

Post-Remediation

AC

A

Material

(µg/100cm²) Level

Area Tested

Ref.

AC

Material

(µg/100cm²) Level

Area Tested

Hem

Location

NAN NAN

GIB-P

TILE

CLE CLE CLE

TILE

GIB-P

0.33

Ceiling

Ceiling

Walls Walls Flooring

TILE Ē

CLE

GIB-P

NAN NAN NAN NAN NAN

GIB-P

TILE ¥ NAN

TILE

WD-B

0.20

Frame

19

CR-F

WD-P AL-PC

8.5

Window

Windows Windows

Doors

REM

CLE

E 77

WD-P

TILE

CLE

CRIMC PLSTC

CLE

NAM N

0.95

Cabinet

Cabinetry

Sink/Vanity

Bath

Mouldings

Skirtings

Bathroom

CLE

CLE CLE

ALPC

AL-PC

NAN NAN NAN

WD-P

M

NAN

CRMC PLSTC NAN

AL-PC

NAN NAN NAN

CRMC

¥ ¥ ¥ ¥ ž ž ¥

0.10

Ceiling Framing Wall Framing

16 S

CON-B

Ē

REM REM REM REM

Z Z

3

Wall

Walls

Toilet Bowl

Shower

18.3

Ceiling

Ceiling

Flooring

CRIMC

NAN NAN NAN

REM REM REM

Skirtings Mouldings

Doors

Hallway

Cabinetry

Ž Ē

Ī

NAN NAN

	AC																		
	AR	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN
uo	Material	NA	NA	NA	NA	MD-B	Jd-TV	NA	NA	NA	NA	NA	NA NA	NA	WD-B	AL-PC	NA	NA	NA
Post-Remediation	Level (µg/100cm²)		0.06	1	7	0.20													
	Area Tested		Ceiling Framing	O	67.3	Frame	(0)	2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \										
	Ref.		17			7		4	V	0									
	AC	REM	REM	REM	REM	CR-F	CLE	REM	REM	Man	REM	MAN	REM	REM	CR-F	CLE	REM	REM	RFM
	Material	Z	N	CON-B	Z	WD-P	AL-PC	Z	N	N	N	CNÍ	CCON-B	り高い	WD-P	AL-PC	IN	IN	Z
orty)	Level (µg/100cm²)		5.8							3.2	0.27	90.0					8	REM	2
Initial (Third Party)	Area Tested		Ceiling							Door	Wall	Ceiling							
	Item	Walls	Ceiling	Flooring	Doors	Windows	Windows	Skirtings	Mouldings	Cabinetry	Walls	Ceiling	Flooring	Doors	Windows	Windows	Skirtings	Mouldings	Cabinatry
	Location		1		Ţu	roor	Bed	1	1	ı		1		2 4	noor	bəa	1		1

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Initial (Third Party)

AC

¥

Material

(µg/100cm²) Level

Area Tested

Ref.

AC

Material

(µg/100cm²) Level

Area Tested

Hem

Location

Post-Remediation

June 2017

NAN NAN NAN

Ž ¥ ¥ ¥

0.14

Ceiling Framing

18

REM REM REM

Ē

NAN NAN NAN

WD-B

80.0

Frame

0

CR-F

WD-P AL-PC

1.8

Window

Windows Windows

Bedroom 3

Doors

CLE

REM

Ē

CON-B

Ī

5.7

Ceiling

Walls

Flooring Ceiling

REM REIN

Ž

N. H

Z

Ē

Mouldings

Skirtings

Cabinetry

Walls

CLE

GIB-P GIB-P

AL-PC

NAN NAN

¥ ¥ NAN NAN NAN NAN NAN NAN NAN NAN NAN NAN

¥

GIB-P GIB-P CON-B

WD-B

Š

REM CR-F

Z

WDP AL-PC WD-P WD-P WD-P

CLE CLE CLE CLE

Mouldings

Skirtings

Cabinetry

CLE

CON-B

90.0

Ceiling Wall

Ceiling

Flooring

Windows Windows

Bedroom 4

Doors

WD-P WD-P WD-P

AL-PC

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Housing New Zealand Corporation

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	۰	•	
	(3	١
	(

	AC																				
	AR	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	NAN	REM	CLE	NAN	NAN	NAN
on	Material	NA	NA	TILE	NA	WD-B	AL-PC	NA	NA	NA	CRMC	PLSTC	GIB-P	NA	NA	CON-B	WD-B	AL-PC	NA	WD-B	AL-PC
Post-Remediation	Level (µg/100cm²)		0.29			0.23											6.9				
	Area Tested		Ceiling Framing	O	64.0	Frame	(1)	2	\ \ \								Frame				
	Ref.		19			12		と		0,							13				
	AC	REM	REM	CLE	REM	CR-F	CLE	REM	REIM	REM	CLE	gre de	313	REM	REM	CLE	CR-F	CLE	REM	CR-F	CLE
	Material	IN	IN	TILE	N	WD-P	AL-PC	N	Z	N	CRMC	PLSTC	Colle-P	つえん	Ž	GON-B	WD-P	AL-PC	2	WD-P	AL-PC
arty)	Level (µg/100cm²)		7.8							2.4			0.87		11.8	3	るシ	た	S,	, .>/	
Initial (Third Party)	Area Tested		Ceiling							Cabinet			Wall		Ceiling						
NZ EI	tem	Walls	Ceiling	Flooring	Doors	Windows	Windows	Skirtings	Mouldings	Cabinetry	Toilet Bowl	Shower	Walls	Walls	Ceiling	Flooring	Doors	Doors	Doors	Windows	Windows
	Location					ә	tiusi	13								a	geag	:9			

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Housing New Zealand Corporation

Job Number: 51342 s 9(2)(a) Auckland

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CONCLUSION

Methamphetamine was detected above the Ministry of Health recommended level of 2.0 μg/100cm² in the garage.

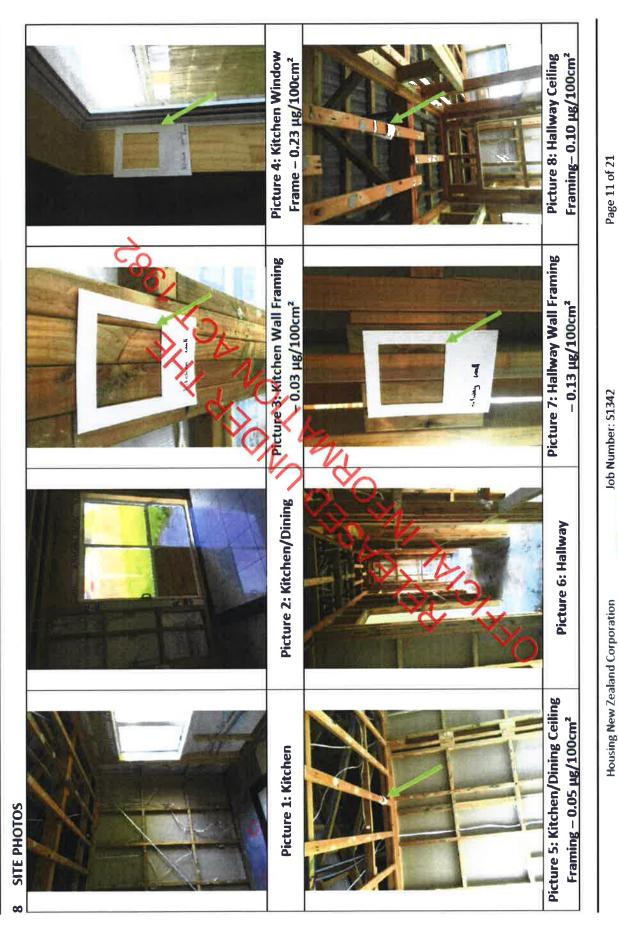
7.1 Occupation of Property

This property therefore should not be occupied.



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APRÈNDICES

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Housing New Zealand Corporation

Job Number: S1342

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A.1. Lab Reports

Swabs 3, 4, 6, 8, and 11 resampled to comply with K2's sampling SOP



R J Hill Laboratories Limited T 0508 HILL LAB (44 555 22) 1 Clyde Street Hamilton 3216 T +64 7 858 2000 Private Bag 3205

E mail@hill-labs.co.nz Hamilton 3240 New Zealand | W www.hill-laboratories.com

LYSIS REPORT Page 1 of 2 1791884 K2 Environmental Limited s 9(2)(a) Lab No: Client: Date Received: 14-Jun-2017 Contact: 15-Jun-2017 Date Reported: C/- K2 Environmental Limited Quote No: 79334 PO Box 28147 Order No: S1342 Beckenham Christchurch 8242 Client Reference: WO1656541 s 9(2)(a) Add. Client Ref: Auckland s 9(2)(a) Submitted By: Sample Type: Miscellaneous Wipe 42- 5 Hallway \$1342- 1 Kitchen \$1342- 2 Kitchen Sample Name: Walls Window Frame Wall 13-Jun-2017 13-Jun-2017 13-Jun-2017 1791884 5 1791884.1 1791884 2 Lab Number: Methamphetamine Including Precursors on Wipes by LCMSMS < 0.02 Amphetamine µg/sample < 0.02 < 0.02 < 0 02 < 0.02 < 0.02 µg/sample Ephedrine 0.03 0.13 ug/sample 0.23

Mediamphetamine	µg/sample	0 23	0.00			0,10
Pseudoephedrine	µg/sample	< 0.02	< 0.02	6		< 0.02
	Sample Name:		S1342- Bedroom 1 Window Frame 13 Jun-2017	D.	\$1342- 9 Bedroom 3 Window Frame 13-Jun-2017	S1342- 10 Bathroom Window Frame 13-Jun-2017
	Lab Number:		1791884.7		1791884 9	1791884.10
Methamphetamine Inclu	iding Precursors on Wipes	by LCMSMS				
Amphetamine	µg/sample	-41	0.02		< 0.02	< 0.02
Ephednne	µg/sample	C> -	0.02		< 0.02	< 0.02
Methamphetamine	µg/sample	~ (0.20		0.08	0.20
Pseudoephedrine	ug/sample		< 0.02		< 0 02	< 0.02

	Sample Name	S1342- 12 Ensuite Window Frame 13-Jun-2017	S1342- 13 Garage Door Frame 13-Jun-2017	S1342- 14 Blank 13-Jun-2017	
	Lab Number:	1791884.12	1791884.13	1791884.14	
Methamphetamine Including	Precursors on Wipes by LCMSI	MS			
Amphetamine	µg/sample	< 0.02	0.09	< 0.02	7
Ephednne	ugreample	< 0.02	< 0.02	< 0.02	=
Methamphetamine	ug/sample	0.23	9.3	< 0.02	*
Pseudoephedrine (µg/sample	< 0.02	< 0.02	< 0.02	-

Analyst's Comments

Samples 1-14 Comment:

For interpretation of the results presented in this Analysis Report, please contact the person or company that collected the samples

in following tabless gives a brief description of the methods used to conduct the analyses for this job. This detection finits given below are those attainable in a relatively clean matrix election limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis.

Sample Type: Miscellaneous Wipe						
Test	Method Description	Default Detection Limit	Sample No			
Methamphetamine Including Precursors on Wipes by LCMSMS	Desorption with 0.1M Sulphuric by shaking, LCMSMS analysis (modified NIOSH9111).	0.02 μg/sample	1-14			



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(ILAC-MRA) this accreditation is internationally recognised.
The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked \(^\), which are not accredited.

Job Number: S1342

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These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Samples are held at the laboratory after reporting for a length of time depending on the preservation used and the stability of the analytes being tested. Once the storage period is completed the samples are discarded unless otherwise advised by the client.

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s 9(2)(a)



Job Number: S1342



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T 0508 HILL LAB (44 555 22) E mail@hill-labs.co.nz W www.hill-laboratories.com

REPORT NALYSIS

Page 1 of 2

. Auckland

SPOI

Client: Contact:

K2 Environmental Limited

s 9(2)(a)

C/- K2 Environmental Limited PO Box 28147

Beckenham Christchurch 8242 Lab No: 1797900 Date Received: 24-Jun-2017 Date Reported: 27-Jun-2017 79334 Quote No: S1342 Order No:

Client Reference: WO1656541 s 9(2)(a) Add. Client Ref:

Submitted By:

s 9(2)(a)

Sample Type: Miscellaneous Wipe \$1342 -15 S1342 -16 S1342 -17 S1342 -18 \$1342 -19 Sample Name: Kitchen/ Dining Hallway Ceiling Bedroom 1 Bedroom 3 **Ensuite Ceiling** Ceiling 23 Jun-2017 Ceiling 23-Jun-2017 Ceiling 23-Jun-2017 23-Jun-2017 23-Jun-2017 1797900:1 1797900.2 1797900.3 1797900.4 797900.5 Lab Number: Methemphetamine Including Precursors on Wipes by LCMSMS < 0.02 < 0.02 < 0.02 < 0.02 Amphetamine μg/sample < 0.02< 0.02 0.02 0.02 < 0.02 < 0.02 Ephedrine µq/sample 0.14 0 06 0.29 Methamphetamine µg/sample 0.05 0.10 < 0.02 < 0.02 0.02 < 0.02 < 0.02 Pseudoephedrine ug/sample

	Sample Name: Lab Number:	S1342 -20 Blank 23-Jun-2017 1797900 6	N.	7		
Methamphetamine Including F	recursors on Wipe	s by LCMSMS	V			
Amphetamine	µg/sample	< 0.02	6			12/4
Ephednne	µg/sample	< 0.02	1, 1,	V iii	160	100
Methamphetamine	µg/sample	< 0.02	D'	*	246	(20)
Pseudoephedrine	μg/sample	< 0.02	V	*	2	20

Analyst's Comments

Samples 1-6 Comment:
For interpretation of the results presented in this Analysis Report, please contact the person or company that collected the

UMM

The following table is given a binef described the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively clean matrix. Detection finits may be higher for individual analysis.

Sample Type: Miscellan ous Wipe				
	Method Description	Default Detection Limit	Sample No	
Methamphetamine Including Precurors on Wipes by LCMSMS	Description with 0.1M Sulphuric by shaking, LCMSMS analysis, modified NIOSH9111).	0 02 µg/sample	1-6	



This Laboratory is accredited by International Accreditation New Zealand (IANZ), which represents New Zealand in the International Laboratory Accreditation Cooperation (ILAC). Through the ILAC Mutual Recognition Arrangement (ILAC-MRA) this accreditation is internationally recognised.

The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked. Which are not accredited.

Job Number: \$1342

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory

Samples are held at the laboratory after reporting for a length of time depending on the preservation used and the stability of the analytes being tested. Once the storage period is completed the samples are discarded unless otherwise advised by the client.

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A.2. K2 Environmental Sampling Methodology

Sampling as carried out following the guidelines outlined in NIOSH 9111 - Methamphetamine on wipes by Liquid Chromatography/mass Spectrometry 9111

Sampling Procedure

- A new pair of gloves (not vinyl) are used for each sample
- Gauze which has been pre-moistened with 3-4ml of methanol is used
- A new (named) template is fixed to the sampling surface
- Each position is photographed
- The surface to be sampled is wiped with firm pressure:
 - o using vertical strokes followed by
 - o horizontal strokes, then folded again by and then followed by
 - Vertical strokes and horizontal strokes the gauze is then folded with the pad, exposed side in, and placed in shipping container & sealed.
- · Each sample clearly Labelled with a unique sample identifier.
- Documentation is completed and samples sent for analysis via courier as soon as practicable.

Blank Samples

A field blank is included with each set of samples for all comprehensive testing.

Sample site Selection

In each room to be sampled the following strategy used to select sampling points:

- High points (fume rises and condenses at higher levels such as ceilings) these are also less likely to have been cleaned
- Areas around windows which are cooler this is where fume is likely to condense
- Painted and varnished surfaces have higher recovery rates
- Hard non-porous surfaces such as benchtops, ranges, range hoods, tiles and glass surfaces.
 (these will have higher concentrations if present as fume will not have been absorbed)

Areas less likely to be sampled (due to low recovery rates)

- Porous surfaces such as non-vinyl coated wall papers
- Bare wood surfaces
- Pinex walls and tiles (especially if not painted)
- Fabrics, carpets and other furnishings

Recovery Using Methanol Swabs³

Surface	Methamphetamine Recovery
Unpainted Dry wall	0.93%
Painted Drywall	74%
Unpainted Plywood	5.7%
Glass	53%
Metal	90%
Tile	12%
Carpet	1.3%

Methamphetamine Sampling Variability on Different Surfaces Using Different Solvents, John W. Martyny, National Jewish Medical and Research Center, October 2008

s 9(2)(a)

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A.3. Table of Materials Abbreviations

Material	Abbreviation for tester table
Aluminium	AL
Aluminium - Powder Coated	AL-PC
Brick - bare	BRK-B *
Brick - painted	BRK-P *
Building Paper	ВР
Carpet	CPT
Cement sheet	CMNTS
Ceramic	CRMC
Concrete - bare	CON-B
Concrete -painted	CON-P
Cinder block - bare	CIND-B
Cinder block - painted	CND-P
GIB - bare	GB-B
GIB - painted	GIB-P
Hardboard - painted	HRDB-P
Hardboard - varnished	HRDB-V
Hardiglaze	HGL
Lathe and plaster – bare	L&P
Lathe and plaster - painted	L&P-P
Laminate	LAM
Pinex	PINEX
Plastic	PLSTC
Soft-board Ceiling Tile	SCT
Stainless steel	STEEL
Stipple	STIPPLE
Tiles	TILE
Tin	TIN
Vinyl/lino	VINYL
Wallpaper	WALP
Wallpaper - vinyl	WALP-V
Wallpaper - painted 💎	WALP-P
Wood - bare	WD-B
Wood - painted	WD-P
Wood - varnished	WD-V
Wood - stained	WD-S
Not Applicable	NA
Not Identified	NI

A.4. Table of Recommended Actions Abbreviations

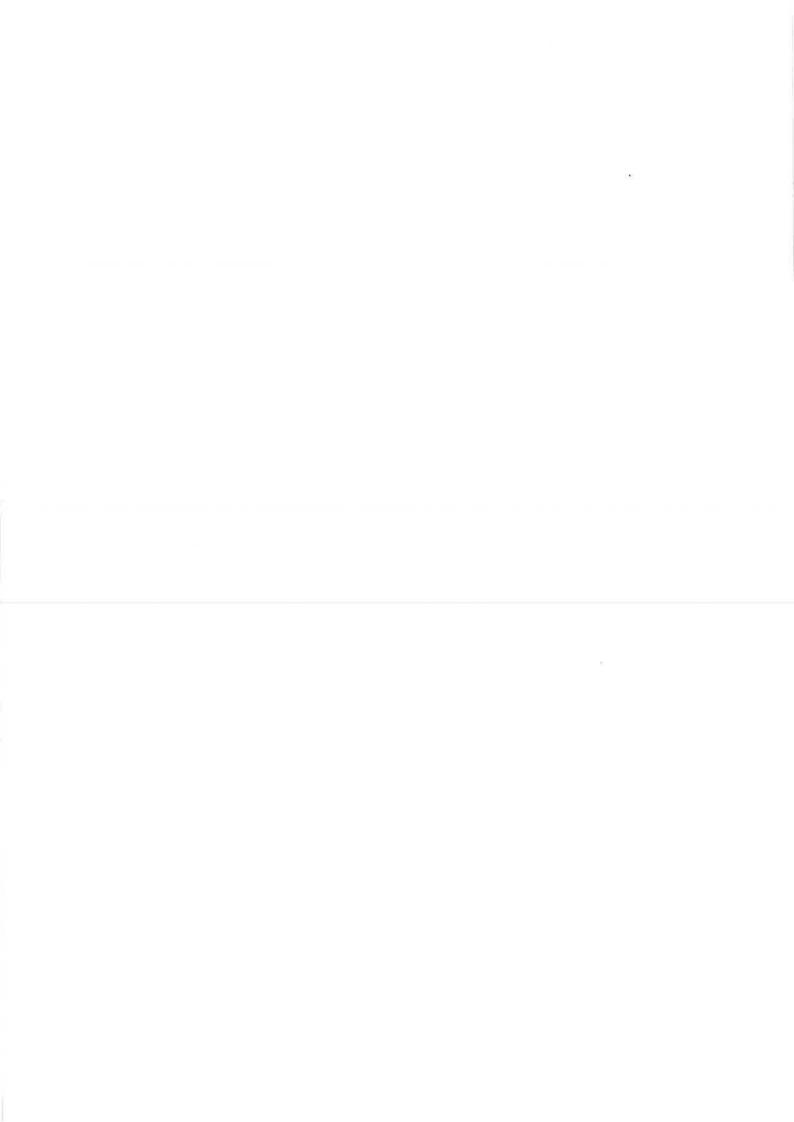
AR (Action recommended)	Abbreviation for Tester Table
Ventilate rooms with mechanical assistance	Scrub+Vent
Vacuum flooring with H13 rated vacuum cleaner	НЕРА
Item to be removed	REM
Remove coating (e.g. paint/varnish)	CR
Triple Clean – Remediation Required	CLE
Triple clean – Precautionary or Recommended	CLE
Action not identified	NI
No action needed	NAN

A.5. Table of Actions Completed Abbreviations

AC (Action completed)	Abbreviation for tester table
Triple Cleaned with sugar soap – decon. team must advise if any alternative cleaning products used so a new code can be generated, decon. team must inform testers if using anything other than sugar soap for a specific property	CIF
Item removed	REM
Coating (e.g. paint/varnish) fully removed	CR-F
Coating partially removed	CR-P
Action Not Identified	NI
Not Completed	NC
Not Applicable / No Action	NA

A.6. Ministry of Health Recommended Limits

Ministry of Aealth Methamphetamin	e Standard
Former clandestine methamphetamine laboratory	0.5 μg/100cm²
Non-lab houses with carpet present	1.5 μg/100cm²
Non-lab houses with no carpet present	2.0 μg/100cm²





4 Cain Rd, Penrose, Auckland, PO Box 112-017, Penrose, AUCKLAND 1642 phone: 09 5260246, fax: 09 5795389



Accreditation for Methamphetamine and associated precursor

7th April 2017

Housing New Zealand Corporation Auckland Regional Office PO Box 74589 Greenlane

Attention:

s 9(2)(a)

Re: Property: Clandestine Drug Assessment Auckland 0612

s 9(2)(a) 48784 Job No:

s 9(2)(a)

Dear

Background:

JOEP THE TOPS of Dowdell & Associates Ltd attended the above property In accordance with your instruction, \$ 9(2)(3) on 29 March 2017 and completed an investigation into potential methamphetamine and associated chemical contamination Out of Scope

This examination was performed in accordance with the 'Guidelines for the Remediation of Clandestine Methamphetamine Laboratory Sites'- Ministry of Health, August 2010 and the 'Review of the Remediation Standards' published by ESR for the MoH October 2016.

Executive Summary:

From the observations made, samples taken and subsequent results obtained it appears that the property is contaminated with drug residue above the threshold levels as documented in the at s 9(2)(a)above publications.

Contents:

- 1. Property Description
- 2. Methodology and sample plan
- 3. Scope
- 4. Results
- 5. Conclusion and remediation plan
- 6. Appendices

Results table

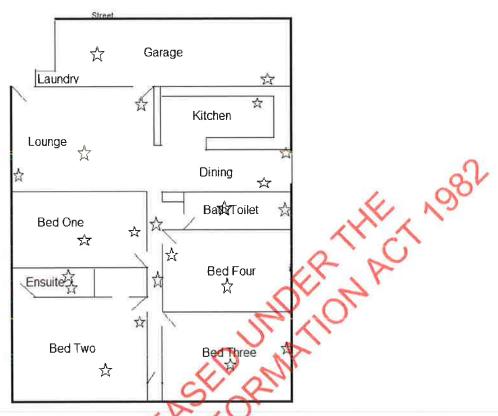
IANZ accredited external laboratory report

Page 1 of 6

1. **Property Description:**

The house at s 9(2)(a) is a modern single story standalone building comprising an open plan lounge, kitchen and dining room, a hallway, four bedrooms, a combined bath and toilet, a combined ensuite bath and toilet and a two car garage which included the laundry.

Floor Plan:



Drawing is not to Scale Stars indicate approximate sampling locations.

Methodology: Sampling plan and Limitations 2.

Observations throughout the property, followed by sampling of various compounds was carried out to establish the possible presence or absence of a range of narcotic drugs and chemicals. Swabs for methamphetamine and prequisors on surfaces were taken throughout the property. The locations sampled are representative of similar areas and surfaces within the dwelling as a whole.

The following equipment, methodologies and laboratories have been utilised.

- 1. General total volatile organic compound levels using a Rae Systems calibrated data logging ppb~Rae PID.
- 2. General narcotic residues screening using standard "Mistral" Forensic Drug Test Kits.
- 3. Swabs analysed for specific Methamphetamine Including Precursor Levels per 100 cm² using Modified NIOSH 9111 - LCMS. Analysis performed at IANZ accredited external laboratory - Labtec, Auckland
- 4. Insulation material analysed for specific Methamphetamine Including Precursor Levels per gram using Modified NIOSH 9111 - LCMS Analysis performed at IANZ accredited external laboratory -Labtec, Auckland
- 5. pH Screening on surfaces using JT Baker Test Strips.

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3. Scope:

The scope in performing this work is to determine any factors that may present a potential health risk to people who will subsequently inhabit the property. Several of the procedures referred to above are screening techniques only and as such **should not** be used to determine the guilt or innocence of any parties involved.

4. Results: Visual Inspection:

Photograph 1 - House



Photograph 2 – Lounge



Photograph 3 - Kitchen



Photograph 4 - Dining



Photograph 5 - Bedroom One



Photograph 6 - Bedroom Four



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Lab No: 48784

Photograph 7 - Bath/Toilet



Photograph 8 - Garage



The property was no longer occupied but did contain some personal items and furniture, especially in the garage. The inside of the dwelling was smoked damaged and the garage was both smoke and fire damaged. The carpets were stained throughout and were missing in bedroom four (only underlay remaining). There were small holes and some larger holes (which were hastily repaired) in the walls throughout with damage to some of the bedroom doors as well as damage to a cabinet in the kitchen. A window in the garage and one panel of the dining room sliding door were broken and boarded up. The front door appears to have been replaced and did not contain a locking system. The closet door in Bedroom four was missing. It appears that some attempt was made to clean the smoke damage in the kitchen/dining and bedrooms prior to the assessment.

Outside the dwelling there was no evidence of fire pits, rubbish burial or vegetation die back that would indicate soil or ground water contamination. There was no rubbish or personal belonings observed in the front or back yards.

b) Total Volatile Organic Compounds (TVOC's):

The volatile organic compound concentrations in all areas were less than $0.1~\mu g/m^3$ and are well within normal guidelines for total volatile organic compound levels (< $500~\mu g/m^3$) as indicated by the Australian National Health & Medical Research Council. Therefore no further specific organic compounds in air samples were taken.

Based on the minimal concentration of TVOCs species specific VOC monitoring was not warranted.

c) Residual Drug Tests:

General Narcotic Residues were screened for using standard "Mistral" Forensic Drug Test Kits. Cannabis was detected on the bench and floor in the kitchen and on the vanity in the ensuite, however no other narcotic drug residue was detected on the property using this screening method.

The laboratory results for the surface swabs indicated that methamphetamine was detected in multiple locations above the current threshold levels as outlined in the Ministry of Health Guidelines and ESR publications. Levels of methamphetamine were also detected in the ceiling insulation, although there are no current threshold levels to compare against.

Methamphetamine precursors were also detected throughout the dwelling. (see attached laboratory result sheet)

d) pH Screen:

General surface in the kitchen, and bathrooms one were screened for pH levels. The bathroom and laundry pH levels ranged from 6 to 9, the more alkaline results may be linked to cleaning products typically used to for smoke damage.

(see attached worksheet)

5. Conclusions and Remediation plan:

From the observations made, samples taken and subsequent results obtained it appears that the property ats 9(2)(a) is contaminated with drug residue above the applicable threshold levels as documented in the 'Guidelines for the Remediation of Clandestine Methamphetamine Laboratory Sites' - Ministry of Health, August 2010 and the 'Review of the Remediation Standards' published by ESR for the MoH. Please note that as the property is contaminated it should not be occupied.

The locations sampled are representative of similar areas and surfaces within the dwelling as a whole.

There was no visual evidence of manufacture or processes observed however these can be easily disguised or rectified before this initial assessment was performed. Due to the significantly high methamphetamine levels found, precursors found, levels of contamination in the insulation and the source of the fire not been confirmed it is recommended that levels of methamphetamine on surfaces are remediated to below the manufacture threshold level of $0.5 \, \mu g/100 \, cm^2$.

Remediation steps are therefore required to be performed throughout the dwelling, such as a FULL PROFESSIONAL DECONTAMINATION as outlined within the 'Guidelines for the Remediation of Clandestine Methamphetamine Laboratory Sites' - Ministry of Health, August 2010. This must be performed by a company with both training and certification in both decontamination processes and health and safety as stated in the above publication.

The remediation company engaged to complete decontamination will have more detailed recommendations regarding the decontamination of specific surfaces. This could include either or both the decontamination or removal of materials that have not undergone swabbing in this assessment. These recommendations will be based on results in the larger area, or results on similar materials. As the combination of contamination sources and materials is different in each case, more in-depth actions may be required if initial remediation does not remove drug residues below threshold levels.

Further recommendations are:

- Removal of any carpets and floor covering and disposed as contaminated waste
- Removal of curtains and drapes to be disposed of as contaminated waste
- Rubbish and personal property remaining around property to be disposed of as contaminated waste
- Extraction and ducting systems should be decontaminated or removed and disposed of as contaminated waste
- It is also recommended that the insulation be removed and disposed of as contaminated waste however there is currently no legislative requirement to do so

Please be aware of the potential for asbestos containing materials to be present on this property. Such materials should be handled in accordance with the Health and Safety in Employment (Asbestos) Regulations 1998. Lead based paint may also be present, so care should be taken when remediating painted surfaces.

Once the above remediation steps have been completed a further inspection will be required in order to validate the decontamination process and thus clear the property for occupancy. Part of this inspection will be sighting a 'crush and bury' certificate for the contaminated waste.

Once this procedure has been completed then subsequent contractors can be engaged to complete the refurbishment.

Should you require any further assistance, please do not hesitate to contact us.

Yours Faithfully OFFICIAL INFORMATION ACT 1982 OFFICIAL INFORMATION ACT 1982 **DOWDELL & ASSOCIATES LTD** s 9(2)(a) Consultant Checked by s 9(2)(a) Occupational Hygienist **General Manager**

Lab No: 48784 Page 6 of 6



4 Cain Rd, Penrose, Auckland, PO Box 112-017, Penrose, AUCKLAND 1642 phone: 09 5260246, fax: 09 5795389

VISUAL EXAMINATION

Date:

28th March 2017

Client:

Housing New Zealand Corporation

Consultant:

s 9(2)(a)

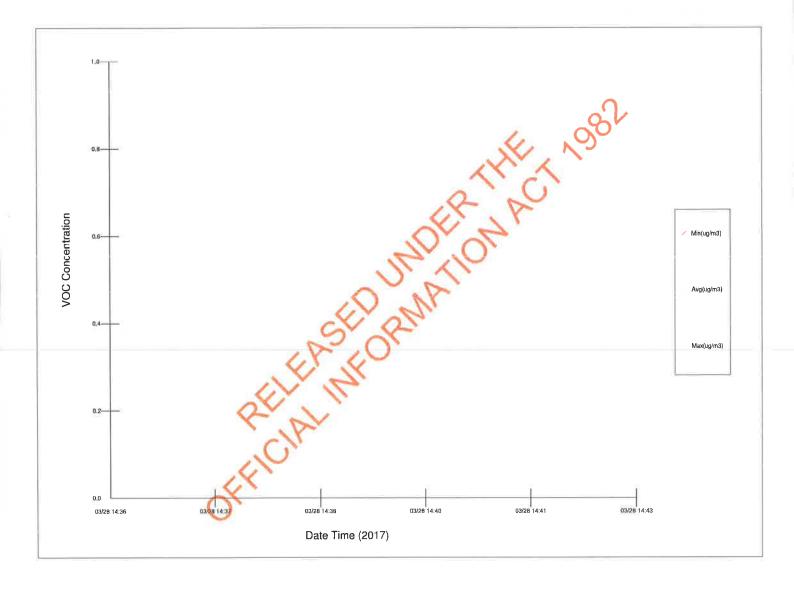
Property Address:

s 9(2)(a)

Area	Walls	Ceilings	Floors	Other – Blinds, Tiles, Cabinets etc.
Kitchen	Painted Plaster Board	Painted Plaster Board	Tile	Tile Backsplash, fan ventilation hood, plastic coated cabinets. Under sink cabinet damaged, no fridge. Light smoke damage. Some post fire cleaning apparent.
Dining Room	Painted Plaster Board	Painted Plaster Board	Tile	Sliding door damaged on panel boarded up, heavy smoke damage and appears cleaning attempted. Heavy smoke damage. Light smoke damage. Some post fire cleaning apparent.
Lounge	Painted Plaster Board	Painted Plaster Board	Carpet	Front door does not appear to be original and has not dead bolt. Stick of incense sticking out from wall, many small holes in walls. Some furniture remaining. Heavy smoke damage.
Hallway/Stairs	Painted Plaster Board	Painted Plaster Board	Carpet	Moderate smoke damage
Bedroom One	Painted Plaster Board	Painted Plaster Board	Carpet	Various holes in walls hastily repaired. Light smoke damage. Light smoke damage. Some post fire cleaning apparent. Closet door damage.
Bedroom Two	Painted Plaster Board	Painted Plaster Board	Carpet	Various holes in walls with some hastily repaired. Some personal items remaining. Light smoke damage. Some post fire cleaning apparent. Door damaged.
Bedroom Three	Painted Plaster Board	Painted Plaster Board	Carpet	Various holes in walls with some hastily repaired. Some personal items remaining. Light smoke damage. Some post fire cleaning apparent.
Bedroom Four	Painted Plaster Board	Painted Plaster Board	Carpet pad	Carpet removed and closet doors missing. Lighter or match damage to one shelf in closet. Light smoke damage. Some post fire cleaning apparent. Door damaged.
Bath/Toilet	Painted Plaster Board	Painted Plaster Board	Tile	Tile Backsplash, fan ventilation, porcelain cistern. Heated towel rack ripped from wall.
Ensuite	Painted Plaster Board	Painted Plaster Board	Tile	Fan ventilation, porcelain cistern.
Garage/Laundry	Painted Plaster Board	Painted Plaster Board	Carpet/Concrete	

Materials stated are approximate based on observation, but have not been tested to determine exact composition

Lab No.: 48784



Serial Number: 100721 Instrument: ppbRAE (PGM7240)

Site ID: 00000499 User ID: 00000001

Data Points: 85 Gas Name: VOC Sample Period: 5 sec

Last Calibration Time: 04/20/2016 08:53 Start At: 03/28/2017 14:36 End At: 03/28/2017 14:43

Managament Types	Min(ug/m3)	Avg(ug/m3)	Max(uq/m3)
Measurement Type:		2 ' 2 '	
High Alarm Levels:	5000	5000	5000
Low Alarm Levels:	2000	2000	2000
STEL Alarm Levels:	5000	5000	5000
TWA Alarm Levels:	2000	2000	2000
Measurement Type:	Min(ug/m3)	Avg(ug/m3)	Max(ug/m3)
Peak Data Value:	0	0	0
Min Data Value:	0	0	0
TWA Data Value:	0	0	0
AVG Data Value:		0	^

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4 Cain Rd, Penrose, Auckland, PO Box 112-017, Penrose, AUCKLAND 1642 phone: 09 5260246, fax: 09 5795389

SAMPLING LOCATIONS AND RESULTS

Date:

28th March 2017

Client:

Housing New Zealand Corporation

Consultant:

s 9(2)(a)

Property Address:

s 9(2)(a)

Note – Please refer to site plan for locations		Narcotic Screening	Methamphetamine (μg/100 cm²)	Surface (pH)
Room	Location			
	Wall		0.33	9
/ik-b	Cupboard		52.6	•
Kitchen	Bench	-'ve	N. NO	6
	Floor	-'ve	1	<u>æ</u>
Dining	Ceiling	- 4	29,6	: 90.
	Ceiling	2	0.15	
Lounge	Window Lounge		0.71	::€:
	Door Lounge to Garage		1.3	
	Ceiling		18.3	
Hallway	Walls	11-110	1.4	•
Bedroom	Ceiling		5.8	•
One	Closet Door		3.2	-
Bedroom	Ceiling	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.06	
Two	Wall		0.27	٠
Bedroom	Ceiling		5.7	
Three	Window Surround	U	1.8	**
Bedroom Four	Ceiling		0.06	
Beardom Four	Wall		0.18	
	Ceiling		0.33	:•
Bath/Toilet	Window Ledg	4	8.5	200
Satin/Tollet	Wall	3	•	7
	Vanity.	-'ve	0.95	9
	Ceiling	9	7.8	9
Ensuite	Vanity	-'ve	2.4	72
	Cistern	3		7
Carago/Shod	Ceiling		11.8	3
Garage/Shed	Wall		0.87	
Poof covity			(µg/g)	
Roof cavity	Ceiling Insulation	(. *)	1.1	

NIOSH 9111 - DETECTION LIMITS

Amphetamine 0.02 µg Ephedrine 0.02 µg Methamphetamine 0.02 µg Pseudoephedrine 0.02 µg

MINISTRY OF HEALTH GUIDELINE THRESHOLDS

Methamphetamine (Clandestine Methamphetamine Laboratories)
Methamphetamine (Non-clandestine Laboratory Contaminated Property with carpet)
Methamphetamine (Non-clandestine Laboratory Contaminated Property without carpet)

0.5 μg/100 cm² 1.5 μg/100 cm² 2.0 μg/100 cm²

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Lab No.: 48784



SAMPLE DETAILS			
Sample Description:	Wipes and Insul	ation Material for Drug Res	idue Analysis
Customer Job Reference:	48784		
Laboratory Report:	12316 Page 1/2	Date Received:	29/03/2017
Laboratory Reference:	NB68-187	Date Reported:	6/04/2017
Number of Samples:	22 of 24	Service Code:	702

RESULTS

.ab.No.	Location	Ephedrine	Pseudoephedrine	Amphetamine	Methamphetamine
		μg/sample	µg/sample	μg/sample	μg/sample
26058	Kitchen/Dining Wall	<0.02	<0.02	<0.02	0.33
26059	Kitchen Cupboard	0.04	<0.02	0.51	52.6
26060	Dining/Kitchen Ceiling	0.07	0.02	11	29.6
26061	Lounge Ceiling	<0.02	<0.02	<0.02	0.15
26062	Lounge Window Ledge	<0.02	<0.02	0.05	0.71
26063	Lounge/Garage Door	<0.02	<0.02	0.03	1.3
26064	Hallway Ceiling	<0.02	<0.02	0.74	18.3
26065	Hallway Walls	<0.02	<0.02	0.05	1.4
26066	Bed One Ceiling	<0.02	0.02	0.27	5.8
26067	Bed One Closet Door	<0.02	<0.02	0.06	3.2
25068	Bed Two Ceiling	<0.02	<0.02	<0.02	0.06
26069	Bed Two Wall	<0.02	<0.02	0.03	0.27
26070	Bed Three Ceiling	<0.02)	<0.02	0.35	5.7
26071	Bed Three Window Surround	<0.02	<0.02	0.06	1.8
26072	Bed Four Ceiling	<0.02	<0.02	<0.02	0.06
26073	Bed Four Wall	<0.02	<0.02	0.02	0.18
26074	Bathroom Ceiling	<0.02	<0.02	<0.02	0.33
26075	Bathroom Window Ledge	0.02	<0.02	0.30	8.5
26076	Bathroom Vanity	<0.02	<0.02	0.04	0.95
26077	Ensuite Ceiling	<0.02	<0.02	0.16	7.8
26078	Ensuite Vanity	<0.02	<0.02	0.08	2.4
26079	Garage Ceiling	0.04	0.02	0.59	11.8

Notes

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s 9(2)(a)

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All tests reported herein have been performed in accordance with the laboratory's scope of accreditation

¹ NIOSH 9111 - modified (LABTEC Test Method TM-0408), LC-MS

² Default detection limit is 0.02µg/sample for wipe samples

³ Samples not collected by LABTEC staff. Results are for samples 'as received'

⁴ Report may not be reproduced, except in full, without written consent

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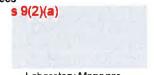


SAMPLE DETAILS

SAINIF	LE DETAILS					
Sample	e Description:	Wipes and Insu	Wipes and Insulation Material for Drug Residue Analysis			
Custon	ner Job Reference:	48784	48784			
Laboratory Report:		12316 Page 2/2	12316 Page 2/2 Date Received:		29/03/201	
	tory Reference:	NB68-187	NB68-187 Date Reported: 2 of 24 Service Code:		6/04/2017	
Numbe	er of Samples:	2 of 24			702	
RESU	TS					
Lab.No.	Location	Ephedrine	Pseudoephedrine	Amphetamine	Methamphetamine	
		µg/sample	µg/sample	μg/sample	µg/sample	
26060	Garage Wall	<0.02	<0.02	0.04	0.87	
		нд/д	µg/g	ир/9	μg/g	
26081	Ceiling Insulation	<0.02	<0.02	0.04	1.1	
			12	\sim		
			200	7		
			N'O			
		7,	1			
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LABTEC LTD - Scientific & Technical Services







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