# The PFAS Health Study Survey

Survey for child participants

### How to complete this survey

•	Use only black	pen for	our re	esponses.	Do not	mark an	y areas	outside boxes	

- When lines ( \_\_\_\_\_\_) are supplied, write your answer clearly on the space provided. Answer with as much detail as possible
- When checkboxes (  $\square$  ) are supplied, indicate the answer that is right for you by putting a tick (  $\square$  )
- If you need to change an answer, completely fill in the wrong box (  $\blacksquare$  ) and put a tick (  $\square$  ) in the box with the answer that is right for you
- Sometimes you are asked to write a number for your response. Where there is more than one box and your answer is a single digit, you do not need to insert zeros in front of your answer. For example:
- Important information that will help you complete the survey will appear next to this symbol Please read each question carefully
- Please answer questions in the order they appear. Where you may need to skip one or more questions you will see this symbol

This study is focused on three PFAS Investigation and Management Areas surrounding Royal Australian Air Force (RAAF) Base Williamtown (New South Wales), RAAF Base Tindal (Northern Territory) and Army Aviation Centre Oakey (Queensland). We want to hear from people who may have been exposed to PFAS in these areas, as well as those who haven't. In this survey a 'PFAS Investigation or Management Area' refers specifically to these sites

If you have any questions about the survey, please call the Australian National University study helpline on 1800 430 903 (9am-5pm AEDT) or go to pfas.anu.edu.au







## **Section A: PFAS Investigation and Management Areas**

- A1 The PFAS Health Study is focused on PFAS Investigation and Management Areas surrounding:
  - Royal Australian Air Force (RAAF) Base Williamtown (New South Wales)
  - RAAF Base Tindal (Northern Territory)

	Army Aviation Centre Oakey (Queensland)			
1	Which of the following best describes your child's current living arrange Tick all that apply	ements?		
	Currently lives in one of these PFAS Investigation or Management Areas			
	Previously lived in one of these PFAS Investigation or Management Areas			
	Never lived in one of these PFAS Investigation or Management Areas	$\Box \rightarrow$	A3	
	Don't know if they lived in one of these PFAS Investigation or Management Areas	□ →	A3	
A2	In which PFAS Investigation or Management Area does or did your child	d live?		
	Tick all that apply			
	Williamtown area, New South Wales	$\Box \rightarrow$	Section B	
	Oakey, Queensland	$\Box \rightarrow$	Section B	
	Katherine, Northern Territory	$\Box \rightarrow$	Section B	
A3	In which area does your child currently live?			
	Kiama or Shellharbour areas, New South Wales			
	Dalby, Queensland			
	Alice Springs, Northern Territory			
	Other (please specify)			

# **Section B: Health conditions**

health is excellent, very good, good, fair or poor?  OR OR Ounces  Grams Ounces  Schild?  ks  Oregnancy for this child?
Grams Pounds Ounces s child? ks
ks
ks
oregnancy for this child?
B6
B6
oregnancy for this child? Please specify
·/\/,
your child has a birth defect?
your orma has a birtiractedt:
B8
B8
se specify

B8	Was this child ever breastfed	by their mo	ther? This inc	cludes expressed	l breastmilk.
	Yes				
	No			310	
	Don't know		$\Box \rightarrow \Box$	310	
1	Prefer not to answer			310	
B9	How old was this child when t	their mothe	r stopped bre	astfeeding them	?
	Please give an approximation if y	ou are unsur	re		
	Age in months		month	S	
	Less than one month				
	Still being breastfed				
	Don't know				
B10	Have you <b>ever</b> been told by a				
	Select 'yes' or 'no' for each condit the date your child was diagnose	d with the co	ndition, please	estimate the year.	
	your child has been diagnosed wi	ith a conditio	n, please selec		
	Health condition			Date Month	of diagnosis Year
	Cancer			Wonth	real
	Brain and nervous system cancer	No 🗆	Yes 🗖 🔫		
	Neuroblastoma	No 🗖	Yes 🗆 🗡		
	Leukaemia	No 🗖	Yes 🗖 📑		
	Lymphoma	No 🗖	Yes 🗖 📑		
	Wilms tumour				
	Willing turriour	No 🗖	Yes 🗖 📑		
	Bone cancer (osteosarcoma or Ewing's sarcoma)	No □	Yes ☐ →		
	Bone cancer (osteosarcoma				
	Bone cancer (osteosarcoma or Ewing's sarcoma)	No 🗖	Yes 🗖 🔫		
	Bone cancer (osteosarcoma or Ewing's sarcoma)  Thyroid cancer	No □	Yes ☐ →		
	Bone cancer (osteosarcoma or Ewing's sarcoma)  Thyroid cancer  Testicular cancer	No □	Yes ☐ →		
	Bone cancer (osteosarcoma or Ewing's sarcoma)  Thyroid cancer  Testicular cancer  Heart and blood vessels	No   No   No	Yes		
	Bone cancer (osteosarcoma or Ewing's sarcoma)  Thyroid cancer  Testicular cancer  Heart and blood vessels  Heart disease	No   No   No	Yes		
	Bone cancer (osteosarcoma or Ewing's sarcoma)  Thyroid cancer  Testicular cancer  Heart and blood vessels  Heart disease  Autoimmune disease	No   No   No   No   No   No   No   No	Yes		
	Bone cancer (osteosarcoma or Ewing's sarcoma)  Thyroid cancer  Testicular cancer  Heart and blood vessels  Heart disease  Autoimmune disease  Ulcerative colitis	No D No D No D	Yes		



B10

Continued Have you ever been told by a doctor that your child has any of the following conditions:

	Health condition Diabetes			Month	Year
	Type I diabetes	No 🗖	Yes 🗖 ⇒		
1	Type II diabetes	No 🗖	Yes □ →		
	Liver diseases				
(	Hepatitis not caused by an infection	No 🗖	Yes □ →		
	Neurological conditions				
	Developmental delay	No 🗖	Yes 🗖 ⇒		
	Attention Deficit Hyperactivity Disorder (ADHD)	No 🗖	Yes □ →		
	Autism	No 🗖	Yes 🗖 ⇒		
	Thyroid				
	Hypothyroidism (underactive thyroid)	No 🗖	Yes □ →		
	Hyperthyroidism (overactive thyroid)	No 🗖	Yes □ →		
	Kidney disease				
	Chronic kidney disease	No 🗖	Yes 🗖 ⇒		
	Additional health conditions (Pl	ease specify)			
		No 🗖	Yes 🗆 🕁		
		No 🗖	Yes □ →		
		No 🗖	Yes □ →		
		No 🗖	Yes □ →		
B11	If you have any comments abou	t any diagnosed	health conditions from	n the previous q	uestion, please
	comment below.				

Secti	Section C: Health and wellbeing							
<b>1</b> C1 is	for <b>female children only</b> . Parents completing	the survey for male	children ⇒ C2					
C1	At what age did your child have their first	t period?						
	Age had first period	years	s of age					
1.	Has not started menstruating							
	Don't know							
	Prefer not to answer							
	for children aged between 2 and 17 years. u're completing this survey about a child outsic	de of this age range	Section D					
C2	For each item, please answer 'Not true', '	Somewhat true' or	'Certainly true'					
	Please answer for each item as best you can swers on the basis of your child's behaviour of for children of different age groups. If your child to the next relevant age range.	over the last six mon	ths. Some of the quest	ions are designed				
	Children aged 2 to less than 4 years							
	Often argumentative with adults							
	Can stop and think things out before acting							
	Can be spiteful to others							
	Children aged 2 to less than 11 years							
	Rather solitary, prefers to play alone							
	Children aged 2 to less than 18 years							
	Considerate of other people's feelings		D					
	Restless, overactive, cannot stay still for long							
	Often complains of headaches, stomachaches or sickness		Q					
	Shares readily with other children, for example toys, treats, pencils							
	Often loses temper							
	Generally well behaved, usually does what adults request							
	Many worries or often seems worried							
	Helpful if someone is hurt, upset or feeling ill							
	Constantly fidgeting or squirming							
	Has at least one good friend							
	Often fights with other children or bullies them							

them

C2 Continued For each item, please answer 'Not true', 'Somewhat true' or 'Certainly true'.



#### **Section D: Medical treatments** D1 Has your child ever had a blood transfusion? Yes No **D4 D4** Don't know Prefer not to answer **D4 D2** How many blood transfusions has your child had? Number of blood transfusions Don't know In what year was your child's last blood transfusion? D3 Year of last blood transfusion Don't know **D4** Has your child ever required regular kidney dialysis? Yes **1** below No the below Don't know Prefer not to answer **1** below D5 In what year did your child start regular kidney dialysis? Year started regular kidney dialysis Don't know D6 In what year did your child end regular kidney dialysis? Year ended regular kidney dialysis Still receiving regular kidney dialysis Don't know 1 The following section relates to living in a PFAS Investigation or Management Area.

If your child has never lived in a PFAS Investigation or Management Area

**Section F** 

# **Section E: Residential exposure to PFAS**

? Please answer questions E1 to E4 for each residence your child has lived in that you know to be in a PFAS Investigation or Management Area.

Residence 1

Residence 2

		Current or most recent	Next most recent
E1	What is the residential address of this pro	perty?	
	Street number and street name		
	Suburb		
	Postcode		
	State		
E2	Which years did your child live at this add	ress?	
	Year moved in		
	Year moved out	☐ Still living here	
E3	What type of property is this?		
	Rural property		
	House		
	Unit or apartment		
E4	What type(s) of water supply did this prop	erty use and in what years d	id your child use it?
	Town water	☐ Never used	☐ Never used
	Year started		
	Year stopped	☐ Still using town water	
	Rainwater (tank water)	☐ Never used	☐ Never used
	Year started		
	Year stopped		
		☐ Still using rainwater	
	Bore water	☐ Never used	☐ Never used
	Year started		
	Year stopped	☐ Still using bore water	
	Other (please specify)		
	Year started		
	Year stopped	☐ Still using other source	
	Don't know the water supply on this property	☐ Unsure of water source	☐ Unsure of water source

If your child has never lived in a PFAS Investigation or Maintenance Area 
 Section F

Residence 3	Residence 4	Residence 5	Residence 6
Next most recent	Next most recent	Next most recent	Next most recent
What is the residential ad	dress of this property?		
What years did your child	live at this address?		
What type of property is t	this?		
What type(s) of water sup	ply did this property use a	nd in what years did your o	child use it?
☐ Never used	☐ Never used	☐ Never used	☐ Never used
☐ Never used	☐ Never used	☐ Never used	☐ Never used
_ never assu		I never used	Film I
☐ Never used	☐ Never used	☐ Never used	□ Never used
<b></b>	□	O	□
☐ Unsure of water source	☐ Unsure of water source	☐ Unsure of water source	☐ Unsure of water source

<b>E</b> 5	Are these all the p Management Are	,	r child has live	ed in that ar	e in a PFAS Inve	stigation or	
	Yes						
	No						
	Theck your answer to nvestigation or Mana Yes		<b>ater</b> used at any	y of the place	es your child lived	that you knov	v are in a PFAS
	No			<u> </u>	<b>€</b> 10		
	ne next questions rela e <b>sidence</b> which used						recent
<b>E</b> 6	<b>Before</b> you becar use bore water at					dence, how	often did you
		Daily	About weekly	About monthly	Less than once a month	Not at all	Don't know
	Drinking						
	Cooking						
	Showering or bathing						
	Watering or irrigating crops						
	Watering vegetable gardens						
	Swimming or wading pools						
	Lawn watering						
	Giving water to livestock						
	Other (please specify)		0				
	☐ Moved into	this residence <b>aft</b>	er finding out ab	out PFAS cont	tamination ⇒	E8	
E7	Did you cease usi area?	ing the bore wa	ater after bein	g made awa	are of PFAS con	tamination i	n your local
	Yes, ceased comple	etely					<b>►</b> E9
	No, still use bore w	ater for some ac	ctivities				
	No, still use bore w	ater for all activi	ties				
	Moved out of this r	esidence <b>before</b>	finding out abo	out PFAS cor	ntamination		<b>E</b> 9

After you became aware of PFAS contamination in the area of this residence, how often did you use bore water at this residence for each of the activities listed below?

Daily About weekly About Less than Not at all Don't know

	Daily	About weekly	About monthly	Less than once a month	Not at all	Don't know
Drinking						
Cooking						
Showering or bathing						
Watering or irrigating crops						
Watering vegetable gardens						
Swimming or wading pools						
Lawn watering						
Giving water to livestock						
Other (please specify)		<b>&gt;</b> -		0		
		9				

1 The next questions relate to living in a PFAS Investigation or Management Area generally.

**Before** you became aware of PFAS contamination, how often did your child eat foods produced on your property or by neighbours or local farmers in a PFAS investigation area, as listed below?

	Daily	About weekly	About monthly	Less than once a month	Not at all	Don't know
Fruit and vegetables						
Eggs						
Poultry						
Livestock						
Seafood or fresh water fish, shellfish or crustaceans (e.g. prawns) caught locally	0		0			
Game meat and eggs caught locally, such as wild kangaroo, wild pig, wild turkey, wild turtle and wild crocodile						
Locally foraged bush tucker, such as quandongs, mushrooms and native plums	0				0	
■ Moved into th	is residence a	after finding out abo	out PFAS cont	camination 🔿	E12	

E10	Have you made a change to your child's local produce consumption since becoming aware of PFAS contamination in your local area?						
	Yes						
	No					$\Box \rightarrow$	Section F
	Moved out of the loca	al area before	finding out abo	out PFAS conta	amination	$\Box \rightarrow \blacksquare$	Section F
E11	In what year did yo	u change yo	ur child's local	produce cor	sumption?		
	Year changed local p	roduce consu	mption				
	Don't know						
E12	<b>After</b> you became a child eat foods prod						
		Daily	About weekly	About monthly	Less than once a month	Not at all	Don't know
	Fruit and vegetables						
	Eggs						
	Poultry	D					
	Livestock						
	Seafood or fresh water fish, shellfish or crustaceans (e.g. prawns) caught locally						_
	Game meat and eggs caught locally, such as wild kangaroo, wild pig, wild turkey, wild turtle and wild crocodile						
	Locally foraged bush tucker, such as quandongs, mushrooms and native plums		_		Ø		



## **Section F: Community exposure to PFAS**

- Do you think your child has been directly exposed to Aqueous Film Forming Foam (AFFF) (firefighting foam) containing PFAS? That is, not through living in a PFAS Investigation or Management Area?
- For example, this could be at a community event, playing in foam or sliding down a slide covered in foam or using AFFF within your home.

Yes	
No	□ ⇒ Section G
Don't know	□ ⇒ Section G

7 Please fill in the table on this page if you think your child may have been exposed to any additional AFFF in your community or home

		Exposure 1	Exposure 2	Exposure 3
F2	How was your child ex	posed to AFFF?		
	Description of child's direct exposure to AFFF in your community or home			
F3	How many times was y	your child directly expose	ed to AFFF in this way?	
	Number of times (approximate)			
F4	In which year was your	child last exposed to AF	FF in this way?	
	Year of exposure			

## **Section G: Background information**

Thi exp be chi	s will allow us to understand how your child's blood PFAS lessure. Once the two have been linked their information will accessible to the person doing the matching. Only research ld's name will not be used for any data analysis and will not y be used to calculate their age.	evels relate to their health and their previous I be non-identifiable. Their information will only In team staff will have access to these files. Your
G1	Child's first name	
G2	Child's surname	
G3	Child's date of birth	DD MM YYYY
G4	What is today's date?	DD MM YYYY
G5	Is your child	
	Male	
	Female	
	Other	
	e following questions are important to help us interpret the use interpret the use interpret the subject to the properties of the properti	results of the survey. If there are any questions
G6	Is your child of Aboriginal or Torres Strait Islander o	rigin?
	Tick all that apply	
	No	
	Yes, Aboriginal	
	Yes, Torres Strait Islander	
<b>G7</b>	How tall is your child without shoes?	
	To the nearest centimetre or inch	
	Height	OR Centimetres Feet Inches
	Don't know	
G8	About how much does your child weigh?	
	To the nearest kilogram or pound	
	Weight	Control Contro
	Don't know	

We are now going to ask a series of questions about your child. It is important for us to ask your child's first and last name and date of birth in order to link your child's PFAS blood test results to the survey answers.

G9	In which country was your child born?	
	Australia	□ → G11
	Other (please specify)	
G10	In what year did your child first come to live in Austi	ralia for one year or more?
1	Year first came to Australia to live for one year or more	
	Don't know	
G11	What language does your child mainly speak at hor	ne?
	English	
	Other (please specify)	
G12	What is your usual yearly <b>household</b> income before	tax, from all sources?
	Equivalent weekly amounts are provided in brackets	
	\$0 to \$25,999 (\$0 to \$499) \$26,000 to \$64,999 (\$500 to \$1,249)	П
	\$65,000 to \$129,999 (\$1,250 to \$2,499)	П
	\$130,000 to \$233,999 (\$2,500 to \$4,499)	П
	\$234,000 or more (\$4,500 or more)	П
	Don't know	
	Prefer not to answer	

#### You have now come to the end of the survey.

#### Thank you for taking part.

The results of your child's survey will be made non-identifiable and combined with other people's results. We will then use these results to better understand the potential health effects of PFAS.

If this survey raised feelings of anxiety or depression please contact your GP who can refer you or your child to appropriate mental health and counselling services in your region.

If you want to clarify any of your answers or make comments about the survey, please write below.



