



TABLES



TABLE A
 Groundwater Gauging Data
 Site: RAAF Scherger, Weipa (1218)
 Project number: 1669283

Location	Date Sampled	Easting	Northing	TOC (m AHD)	Depth of well	Well stickup	Surface Elevation	SWL (mbtoc)	GW Elevation
RAAFSGR10	4/05/2017	616748	8603605	41.525	14.265	-0.11	41.635	12.391	29.134
RAAFSGR14	4/05/2017	617687	8603493	39.012	15.42	0.525	38.487	8.055	30.957
RAAFSGR18	4/05/2017	617736	8602773	44.246	11.5	-0.12	44.366	5.138	39.108
RAAFSGR19	4/05/2017	617731	8602763	44.214	9.3	-0.08	44.294	5.144	39.070
MW022	15/05/2017	617529	8604010	44.297	21.71	-0.158	44.455	13.620	30.677
MW023	15/05/2017	617971	8603883	44.355	21	-0.145	44.5	12.633	31.722
MW024	15/05/2017	616647	8604068	43.808	22	-0.156	43.964	14.021	29.787
MW025	15/05/2017	616944	8604111	43.775	21.84	-0.145	43.92	13.555	30.220
MW026	15/05/2017	616721	8601408	39.198	13.23	-0.127	39.325	7.750	31.448
MW027	15/05/2017	614821	8604848	22.991	14.056	0.69	22.301	7.250	15.741

Notes:

m AHD metres Australian Height Datum
 mbtoc metres below top of casing
 TOC Top Of well Casing

TABLE B
Groundwater Field Quality Parameters
Site: RAAF Scherger, Weipa (1218)
Project number: 1669283

Location	Date Sampled	DO (ppm)	EC ($\mu\text{S}/\text{cm}$)	pH (pH units)	Er (mV)	Eh* (mV)	Temp ($^{\circ}\text{C}$)	SWL (mbtoc)	Comments
W001	4/05/2017	5.05	22.90	5.21	223	422	28.3	-	Clear, low turbidity, no sheen/odour
W002	4/05/2017	5.36	27.10	6.53	744	943	28.3	-	Clear, low turbidity, no sheen/odour
RAAFSGR10	4/05/2017	3.11	18.40	4.97	285	484	30.5	12.391	Orange brown, high turbidity, no sheen/odour
RAAFSGR14	4/05/2017	3.90	87.80	4.83	201	400	27.0	8.055	Orange brown, high turbidity, no sheen/odour
RAAFSGR18	4/05/2017	3.32	17.50	4.87	268	467	29.8	5.138	Pale brown, high turbidity, no sheen/odour
RAAFSGR19	4/05/2017	3.04	20.40	4.90	330	529	30.3	5.144	Pale orange, high turbidity, no sheen/odour
MW022	15/05/2017	4.19	44.20	5.12	217	416	29.7	13.620	Very pale yellow, low turbidity, no sheen/odour
MW023	15/05/2017	3.69	26.50	5.30	269	468	30.4	12.633	Pale brown, medium turbidity, no sheen/odour
MW024	15/05/2017	4.05	27.90	4.52	271	470	30.2	14.021	Pale yellow brown, low turbidity, no sheen/odour
MW025	15/05/2017	3.98	36.70	5.44	196	395	31.1	13.555	Pale orange brown, medium turbidity, no sheen/odour
MW026	15/05/2017	2.72	37.60	5.64	71	270	29.3	7.750	Brown, medium turbidity, no sheen/odour
MW027	15/05/2017	2.10	52.60	5.14	169	368	27.5	7.250	Plae yellow, low turbidity, no sheen/odour

Notes:

- not measured

ppm = Parts per million

L = Litre

DO = Dissolved Oxygen

EC = Electrical Conductivity

$\mu\text{S}/\text{cm}$ = Microsiemens per centimetre

TDS = Total Dissolved Solids (estimated based on EC value multiplied by 0.65)

*Eh = Redox Potential (measured with a platinum electrode and silver/silver chloride reference electrode (Er) and converted to Eh by $Eh = Er + 199 \text{ mV}$)

mV = Millivolts

Temp = Temperature

$^{\circ}\text{C}$ = Degree in Celsius

TABLE C
Surface Water Quality Parameters
Site: RAAF Scherger, Weipa (1218)
Project number: 1669283

Location	Date Sampled	DO (ppm)	EC ($\mu\text{S/cm}$)	pH (pH units)	Er (mV)	Eh* (mV)	Temp ($^{\circ}\text{C}$)	Comments
SW01		-	-	-	-	-	-	Not collected
SW02		-	-	-	-	-	-	Not collected
SW03		-	-	-	-	-	-	Not collected
SW04		-	-	-	-	-	-	Not collected
SW05		-	-	-	-	-	-	Not collected
SW06	5/05/2017	2.56	28.20	5.58	144	343	31.40	Brown, low turbidity, minor organics, no sheen/odour
SW07	5/05/2017	3.12	14.5	5.72	148	347	28.1	Very pale brown, lots of leaf litter, low turbidity, aquatic plants numerous, slight natural odour, very low flow
SW08		-	-	-	-	-	-	Not collected
SW09	5/05/2017	4.21	39.6	6.14	140	339	26.7	Very pale yellow, slight natural odours, low turbidity, high organic content, frogs eggs observed in water, creek is flowing
SW10		-	-	-	-	-	-	Not collected
SW11	5/05/2017	3.92	39	6.43	111	310	26.7	Very pale yellow, almost clear, some organic fines, waterway is flowing, low turbidity
SW12	5/05/2017	5.90	13.1	6.64	110	309	26.2	Very pale yellow, low turbidity, trace organics, sandy creek bottom, fast flowing creek, some aquatic plants, slight organic odour
SW13	9/05/2017	4.76	12.0	5.74	192	391	29.5	Clear colour, lots of organic matter, low turbidity, water flowing out of the banks, possible spring fed, slight natural odour

Notes:

- not measured

ppm = Parts per million

L = Litre

DO = Dissolved Oxygen

EC = Electrical Conductivity

$\mu\text{S/cm}$ = Microsiemens per centimetre

TDS = Total Dissolved Solids (estimated based on EC value multiplied by 0.65)

*Eh = Redox Potential (measured with a platinum electrode and silver/silver chloride reference electrode (Er) and converted to Eh by $Eh = Er + 199 \text{ mV}$)

mV = Millivolts

Temp = Temperature

$^{\circ}\text{C}$ = Degree in Celsius



TABLE D
Groundwater Analytical Results
Per- and Polyfluoroalkyl Substances (PFAS)
Site: RAAF Scherger, Weipa (1218)
Project number: 1669283

Defence ID	RAAFSGR10	RAAFSGR14	RAAFSGR18	RAAFSGR19	MW022	QC110	QC210
Target Area (S/P/R) ¹	Aviation Fuel Farm (S)	Central Power Station (S)	Motor Transport Facility (S)	Motor Transport Facility (S)	GPA (S)	GPA (S)	GPA (S)
Figure Reference	3-4	3-7	3-9	3-9	3-5	3-5	3-5
Field ID	1218_MW010_S_170504	1218_MW014_S_170505	1218_MW018_S_170504	1218_MW019_S_170504	1218_MW022_S_170515	1218_QC110_170515	1218_QC210_170515
Sampled Date	4/05/2017	5/05/2017	4/05/2017	4/05/2017	15/05/2017	15/05/2017	15/05/2017
Location Code	1218_MW010_S	1218_MW014_S	1218_MW018_S	1218_MW019_S	1218_MW022_S_170515	1218_MW022_S_170515	1218_MW022_S_170515
Lab Report Number	EB1709387	EB1709387	EB1709387	EB1709387	EB1710297	EB1710297	546883
Sample Type	PS	PS	PS	PS	PS	FD	FT

ChemName	Unit	LOR	Human Health - Drinking Water Quality PFOS/PFHxS	Protection of Environmental Values – Freshwater 99 % species protection	RAAFSGR10	RAAFSGR14	RAAFSGR18	RAAFSGR19	MW022	QC110	QC210	
Per- and polyfluoroalkyl substances (PFAS)												
N-Methyl PFO sulfonamidoethanol (MeFOSE)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	
N-methyl-PFO sulfonamidoacetic acid (MeFOSAA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	
Perfluorooctanoic Acid (PFOA)	µg/L	0.002	0.56	19	0.004	<0.002	<0.002	<0.002	0.002	0.002	<0.01	
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.002		0.00023	0.036	0.026	0.034	<0.002	0.008	0.009	0.01	
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.002			0.05	<0.002	0.006	0.008	0.008	0.009	<0.01	
Sum of PFHxS and PFOS (calculated)	µg/L	0.002	0.07		0.086	0.026	0.04	0.008	0.016	0.018	-	
PFAS (Sum of total - Lab Reported)	µg/L	0.002			0.126	0.026	0.04	0.01	0.034	0.036	-	
Sum of PFAS (Swedish 11 + 8:2FTSA, lab reported)	µg/L	0.002			0.086	<0.002	0.006	0.01	0.026	0.027	-	
Perfluorobutanoic acid (PFBA)	µg/L	0.01			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	
Perfluorohexanoic acid (PFHxA)	µg/L	0.002			0.005	<0.002	<0.002	<0.002	0.008	0.009	<0.01	
Perfluoroheptanoic acid (PFHpA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	
Perfluorodecanoic acid (PFDA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	
Perfluoropentanoic acid (PFPeA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	0.003	0.002	<0.01	
Perfluorononanoic acid (PFNA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	
Perfluorododecanoic acid (PFDoDA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.002			0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.002			0.014	<0.002	<0.002	0.002	0.002	0.002	<0.01	
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.002			0.013	<0.002	<0.002	<0.002	0.003	0.003	<0.01	
4:2 Fluorotelomer sulfonic acid (4:2 FTSA)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	µg/L	0.005	5		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	
10:2 Fluorotelomer sulfonic acid (10:2 FTSA)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	
N-Ethyl PFO sulfonamide (EtFOSA)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	
N-Ethyl PFO sulfonamidoethanol (EtFOSE)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	
N-Methyl PFO sulfonamide (MeFOSA)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	
Perfluorooctane sulfonamide (FOSA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	
N-ethyl-PFO sulfonamidoacetic acid (EtFOSAA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	

Legend:
LOR - Limit of Reporting
FD - Field Duplicate
PS - Primary Sample
FT - Field Triplicate
GPA - General Purpose Apron
OLA - Ordnance Loading Area
WTP - Water Treatment Plant
- Not Analysed

Note 1: (S/P/R) = indicates whether the target area is a Source (S), Pathway (P) or Receptor R

Protection of Environmental Values – Freshwater 99 % species protection
Human Health - Drinking Water Quality PFOS/PFHxS DCD 8 Amendment 2

TABLE D
Groundwater Analytical Results
Per- and Polyfluoroalkyl Substances (PFAS)
Site: RAAF Scherger, Weipa (1218)
Project number: 1669283

Defence ID	MW023	MW024	MW025	MW026	MW027
Target Area (S/P/R) ¹	Building 7 (S)	OLA 3	OLA 8 (S)	SW Base (R')	NW Base (R')
Figure Reference	3-6	3-3	3-3	3-11	3-2
Field ID	1218_MW023_S_170515	1218_MW024_S_170515	1218_MW025_S_170515	1218_MW026_S_170515	1218_MW027_S_170515
Sampled Date	15/05/2017	15/05/2017	15/05/2017	15/05/2017	15/05/2017
Location Code	1218_MW023_S_170515	1218_MW024_S_170515	1218_MW025_S_170515	1218_MW026_S_170515	1218_MW027_S_170515
Lab Report Number	EB1710297	EB1710297	EB1710297	EB1710297	EB1710297
Sample Type	PS	PS	PS	PS	PS

ChemName	Unit	LOR	Human Health - Drinking Water Quality PFOS/PFHxS	Protection of Environmental Values – Freshwater 99 % species protection	MW023	MW024	MW025	MW026	MW027
Per- and polyfluoroalkyl substances (PFAS)									
N-Methyl PFO sulfonamidoethanol (MeFOSE)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002
N-methyl-PFO sulfonamidoacetic acid (MeFOSAA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002
Perfluorooctanoic Acid (PFOA)	µg/L	0.002	0.56	19	<0.002	0.002	0.023	<0.002	<0.002
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.002		0.00023	<0.002	0.023	0.073	<0.002	0.003
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.002			<0.002	0.037	0.106	<0.002	<0.002
Sum of PFHxS and PFOS (calculated)	µg/L	0.002	0.07		<0.002	0.06	0.179	<0.002	0.003
PFAS (Sum of total - Lab Reported)	µg/L	0.002			<0.002	0.182	0.374	<0.002	0.003
Sum of PFAS (Swedish 11 + 8:2FTSA, lab reported)	µg/L	0.002			<0.002	0.159	0.294	<0.002	<0.002
Perfluorobutanoic acid (PFBA)	µg/L	0.01			<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorohexanoic acid (PFHxA)	µg/L	0.002			<0.002	0.018	0.052	<0.002	<0.002
Perfluoroheptanoic acid (PFHpA)	µg/L	0.002			<0.002	0.006	0.017	<0.002	<0.002
Perfluorodecanoic acid (PFDA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002
Perfluoropentanoic acid (PFPeA)	µg/L	0.002			<0.002	0.019	0.028	<0.002	<0.002
Perfluorononanoic acid (PFNA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002
Perfluorododecanoic acid (PFDoDA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.002			<0.002	<0.002	0.007	<0.002	<0.002
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.002			<0.002	0.011	0.02	<0.002	<0.002
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.002			<0.002	0.02	0.026	<0.002	<0.002
4:2 Fluorotelomer sulfonic acid (4:2 FTSA)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	µg/L	0.005	5		<0.005	0.046	0.022	<0.005	<0.005
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005
10:2 Fluorotelomer sulfonic acid (10:2 FTSA)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl PFO sulfonamide (EtFOSA)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl PFO sulfonamidoethanol (EtFOSE)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl PFO sulfonamide (MeFOSA)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide (FOSA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002
N-ethyl-PFO sulfonamidoacetic acid (EtFOSAA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002

Legend:

- LOR - Limit of Reporting
- FD - Field Duplicate
- PS - Primary Sample
- FT - Field Triplicate
- GPA - General Purpose Apron
- OLA - Ordnance Loading Area
- WTP - Water Treatment Plant
- Not Analysed

Note 1: (S/P/R) = indicates whether the target area is a Source (S), Pathway (P) or Receptor R

Protection of Environmental Values – Freshwater 99 % species protection
Human Health - Drinking Water Quality PFOS/PFHxS DCD 8 Amendment 2



TABLE E
Surface Water Analytical Results
Per- and Polyfluoroalkyl Substances (PFAS)
Site: RAAF Scherger, Weipa (1218)
Project number: 1669283

Defence ID	SW006	SW007	SW009	QC101	SW011	SW012	SW013
Target Area (S/P/R) ¹	SW boundary creek, slightly down-stream from Peppin camp	road crossing, part of drainage pathway from Building 7 & CPS locale	Near intersection of a road and creek on the north-NW boundary	Near intersection of a road and creek on the north-NW boundary	downstream (west) of the operational areas	near western boundary downstream of the operational areas	NE corner of Base draining to Mission River
Figure Reference	3-13	3-7	3-1	3-1	3-15	3-14	3-16
Field ID	1218_SW006_S_170505	1218_SW007_S_170505	1218_SW009_S_170505	1218_QC101_170505	1218_SW011_S_170505	1218_SW012_S_170505	1218_SW013_170509
Sampled Date	5/05/2017	5/05/2017	5/05/2017	5/05/2017	5/05/2017	5/05/2017	9/05/2017
Location Code	1218_SW006_S_170505	1218_SW007_S_170505	1218_SW009_S_170505	1218_SW009_S_170505	1218_SW011_S_170505	1218_SW012_S_170505	1218_SW013_170509
Lab Report Number	EB1709388	EB1709388	EB1709388	EB1709388	EB1709388	EB1709388	EB1710297
Sample Type	PS	PS	PS	FD	PS	PS	PS

ChemName	Unit	LOR	Recreational Water Quality Guideline	Protection of Environmental Values – Freshwater 99 % species protection	SW006	SW007	SW009	QC101	SW011	SW012	SW013	
Per- and polyfluoroalkyl substances (PFAS)												
N-Methyl PFO sulfonamidoethanol (MeFOSE)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
N-methyl-PFO sulfonamidoacetic acid (MeFOSAA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Perfluorooctanoic Acid (PFOA)	µg/L	0.002	5.6	19	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.002		0.00023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Sum of PFHxS and PFOS (calculated)	µg/L	0.002	0.7		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	
PFAS (Sum of total - Lab Reported)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	
Sum of PFAS (Swedish 11 + 8:2FTSA, lab reported)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Perfluorobutanoic acid (PFBA)	µg/L	0.001			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Perfluorohexanoic acid (PFHxA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Perfluoroheptanoic acid (PFHpA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Perfluorodecanoic acid (PFDA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Perfluoropentanoic acid (PFPeA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Perfluorononanoic acid (PFNA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Perfluorododecanoic acid (PFDoDA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
4:2 Fluorotelomer sulfonic acid (4:2 FTSA)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	µg/L	0.005	50 ¹		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
10:2 Fluorotelomer sulfonic acid (10:2 FTSA)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
N-Ethyl PFO sulfonamide (EtFOSA)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
N-Ethyl PFO sulfonamidoethanol (EtFOSE)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
N-Methyl PFO sulfonamide (MeFOSA)	µg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Perfluorooctane sulfonamide (FOSA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
N-ethyl-PFO sulfonamidoacetic acid (EtFOSAA)	µg/L	0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	

Legend:
LOR - Limit of Reporting
PS - Primary Sample
- Not Analysed
FD - Field Duplicate
FT - Field Triplicate
* - Laboratory LOR used as a practical standard for 'slightly to moderately disturbed environments'

Note (1) - from DCD#8 (Amendment 1)
Recreational Water Quality Guideline DCD #8 Amendment 2
Protection of Environmental Values – Freshwater 99 % species protection



TABLE F
Water Supply Analytical Results
Per- and Polyfluoroalkyl Substances (PFAS)
Site: RAAF Scherger, Weipa (1218)
Project number: 1669283

Defence ID	W001	W002	QC103
Target Area	untreated combined flow from water supply bores 3 and 4	Water Treatment Plant - treated water supply	Water Treatment Plant - treated water supply
Figure Reference	3-10	3-10	3-10
Field ID	1218_W001_S_170504	1218_W002_S_170504	1218_QC103_S_170504
Sampled Date	4/05/2017	4/05/2017	4/05/2017
Location Code	1218_W001_S	1218_W002_S	1218_W002_S
Lab Report Number	EB1709387	EB1709387	EB1709387
Sample Type	PS	PS	FD

ChemName	Unit	LOR	Human Health - Drinking Water Quality PFOS/PFHxS	Protection of Environmental Values – Marine 99 % species protection	Protection of Environmental Values – Freshwater 95 % species protection			
Per- and polyfluoroalkyl substances (PFAS)								
N-Methyl PFO sulfonamidoethanol (MeFOSE)	µg/L	0.005				<0.005	<0.005	<0.005
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.002				<0.002	<0.002	<0.002
N-methyl-PFO sulfonamidoacetic acid (MeFOSAA)	µg/L	0.002				<0.002	<0.002	<0.002
Perfluorooctanoic Acid (PFOA)	µg/L	0.002	0.56	3000	220	<0.002	<0.002	<0.002
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.002		0.29	0.13	<0.002	<0.002	<0.002
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.002				<0.002	<0.002	<0.002
Sum of PFHxS and PFOS (calculated)	µg/L	0.002	0.07			<0.002	<0.002	<0.002
PFAS (Sum of total - Lab Reported)	µg/L	0.002				<0.002	<0.002	<0.002
Sum of PFAS (Swedish 11 + 8:2FTSA, lab reported)	µg/L	0.002				<0.002	<0.002	<0.002
Perfluorobutanoic acid (PFBA)	µg/L	0.01				<0.01	<0.01	<0.01
Perfluorohexanoic acid (PFHxA)	µg/L	0.002				<0.002	<0.002	<0.002
Perfluoroheptanoic acid (PFHpA)	µg/L	0.002				<0.002	<0.002	<0.002
Perfluorodecanoic acid (PFDA)	µg/L	0.002				<0.002	<0.002	<0.002
Perfluoropentanoic acid (PFPeA)	µg/L	0.002				<0.002	<0.002	<0.002
Perfluorononanoic acid (PFNA)	µg/L	0.002				<0.002	<0.002	<0.002
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.005				<0.005	<0.005	<0.005
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.002				<0.002	<0.002	<0.002
Perfluorododecanoic acid (PFDoDA)	µg/L	0.002				<0.002	<0.002	<0.002
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.002				<0.002	<0.002	<0.002
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.002				<0.002	<0.002	<0.002
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.002				<0.002	<0.002	<0.002
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.002				<0.002	<0.002	<0.002
4:2 Fluorotelomer sulfonic acid (4:2 FTSA)	µg/L	0.005				<0.005	<0.005	<0.005
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	µg/L	0.005	5			<0.005	<0.005	<0.005
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	µg/L	0.005				<0.005	<0.005	<0.005
10:2 Fluorotelomer sulfonic acid (10:2 FTSA)	µg/L	0.005				<0.005	<0.005	<0.005
N-Ethyl PFO sulfonamide (EtFOSA)	µg/L	0.005				<0.005	<0.005	<0.005
N-Ethyl PFO sulfonamidoethanol (EtFOSE)	µg/L	0.005				<0.005	<0.005	<0.005
N-Methyl PFO sulfonamide (MeFOSA)	µg/L	0.005				<0.005	<0.005	<0.005
Perfluorooctane sulfonamide (FOSA)	µg/L	0.002				<0.002	<0.002	<0.002
N-ethyl-PFO sulfonamidoacetic acid (EtFOSAA)	µg/L	0.002				<0.002	<0.002	<0.002

Legend:

- LOR - Limit of Reporting
- FD - Field Duplicate
- PS - Primary Sample
- FT - Field Triplicate
- Not Analysed

Protection of Environmental Values – Marine 95 % species protection
Human Health - Drinking Water Quality PFOS/PFHxS Amendment #2
Protection of Environmental Values – Freshwater 99 % species protection



TABLE G
Soil Analytical Results
Per- and Polyfluoroalkyl Substances (PFAS)
Site: RAAF Scherger, Weipa (1218)
Project number: 1669283

Sample Type	BH022	BH022	BH022	BH022	BH023	BH023	BH024
Location Code	1218_BH022_0.7-0.95	1218BH022_11.5-11.75	1218BH022_11.5-11.75	1218BH022_11.5-11.75	1218_BH023_0.6-0.75	1218_BH023_13.8-14.0	1218_BH024_0.8-1.0
Field ID	1218_BH022_0.7-0.95_170511	1218_BH022_11.5-11.75_170511	1218_QC108_170513	1218_QC208_170513	1218_BH023_0.6-0.75_170510	1218_BH023_13.8-14.0_170510	1218_BH024_0.8-1.0_170512
Sample Depth (m)	0.7-0.95	11.5-11.75	11.5-11.75	11.5-11.75	0.6-0.75	13.8-14.0	0.8-1.0
Sample Type	PS	PS	FD	FT	PS	PS	PS
Lab Report Number	EB1710297	EB1710297	EB1710297	546883-S	EB1710297	EB1710297	EB1710297
Sample Date	13/05/2017	13/05/2017	13/05/2017	13/05/2017	10/05/2017	10/05/2017	12/05/2017

Human Health Residential Soil
Quality Guideline (direct
contact only)

ChemName	Unit	LOR	10.5	12.1	12	12	12.6	20.4	12
Moisture	%	1							
Per- and polyfluoroalkyl substances (PFAS)									
N-Methyl PFO sulfonamidoethanol (MeFOSE)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.0005	<0.0005	<0.0005
Perfluorodecane sulfonic acid (PFDS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002
N-methyl-PFO sulfonamidoacetic acid (MeFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002
Perfluorooctanoic acid (PFOA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002
Perfluorooctane sulfonic acid (PFOS)	mg/kg	0.0002	0.0013	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002
Perfluorohexane sulfonic acid (PFHxS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.005	0.0005	<0.0002	<0.0002
PFAS (Sum of total - Lab Reported)	mg/kg	0.0002	0.0013	<0.0002	<0.0002	<0.005	0.0005	<0.0002	<0.0002
Perfluorobutanoic acid (PFBA)	mg/kg	0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002
Perfluorodecanoic acid (PFDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002
Perfluorononanoic acid (PFNA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.05	<0.0005	<0.0005	<0.0005
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002
Perfluoropentane sulfonic acid (PFPeS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002
Perfluorobutane sulfonic acid (PFBS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002
4:2 Fluorotelomer sulfonic acid (4:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.0005	<0.0005	<0.0005
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.01	<0.0005	<0.0005	<0.0005
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.0005	<0.0005	<0.0005
10:2 Fluorotelomer sulfonic acid (10:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.0005	<0.0005	<0.0005
N-Ethyl PFO sulfonamide (EtFOSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.0005	<0.0005	<0.0005
N-Ethyl PFO sulfonamidoethanol (EtFOSE)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.0005	<0.0005	<0.0005
N-Methyl PFO sulfonamide (MeFOSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.0005	<0.0005	<0.0005
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002
N-ethyl-PFO sulfonamidoacetic acid (EtFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002

Legend:
LOR - Limit of Reporting
PS - Primary Sample
FD - Field Duplicate
FT - Field Triplicate
- Not Analysed

Value exceeds the Defence Contamination Directive (Amendment 1) Interim Criteria



TABLE G
Soil Analytical Results
Per- and Polyfluoroalkyl Substances (PFAS)
Site: RAAF Scherger, Weipa (1218)
Project number: 1669283

Sample Type	BH024	BH024	BH024	BH025	BH025	BH026	BH026
Location Code	1218_BH024_8.5-8.75	1218_BH024_8.5-8.75	1218_BH024_8.5-8.75	1218_BH025_0.6-0.75	1218BH025_16.5-16.75	1218_BH026_0.6-0.75	1218_BH026_7.0-7.25
Field ID	1218_BH024_8.5-8.75_170512	1218_QC107_170512	1218_QC207_170512	1218_BH025_0.6-0.75170510	1218_BH025_16.5-16.75170511	1218_BH026_0.6-0.75_170509	1218_BH026_7.0-7.25_170509
Sample Depth (m)	8.5-8.75	8.5-8.75	8.5-8.75	0.6-0.75	16.5-16.75	0.6-0.75	7.0-7.25
Sample Type	PS	FD	FT	PS	PS	PS	PS
Lab Report Number	EB1710297	EB1710297	546883-S	EB1710297	EB1710297	EB1710297	EB1710297
Sample Date	12/05/2017	12/05/2017	12/05/2017	10/05/2017	11/05/2017	9/05/2017	9/05/2017

Human Health Residential Soil
Quality Guideline (direct
contact only)

ChemName	Unit	LOR	8.7	8.7	8.9	9	19.5	13.4	21.8
Moisture	%	1							
Per- and polyfluoroalkyl substances (PFAS)									
N-Methyl PFO sulfonamidoethanol (MeFOSE)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Perfluorodecane sulfonic acid (PFDS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002
N-methyl-PFO sulfonamidoacetic acid (MeFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorooctanoic acid (PFOA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0005	0.0002	<0.0002	<0.0002	<0.0002
Perfluorooctane sulfonic acid (PFOS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0005	0.0231	<0.0002	<0.0002	<0.0002
Perfluorohexane sulfonic acid (PFHxS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002
PFAS (Sum of total - Lab Reported)	mg/kg	0.0002	<0.0002	<0.0002	<0.0005	0.0244	<0.0002	<0.0002	<0.0002
Perfluorobutanoic acid (PFBA)	mg/kg	0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002	<0.0002
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorodecanoic acid (PFDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002	<0.0002
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorononanoic acid (PFNA)	mg/kg	0.0002	<0.0002	<0.0002	<0.005	0.0011	<0.0002	<0.0002	<0.0002
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0005	<0.0005	<0.0005	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002	<0.0002
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorooheptane sulfonic acid (PFHpS)	mg/kg	0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002	<0.0002
Perfluoropentane sulfonic acid (PFPeS)	mg/kg	0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorobutane sulfonic acid (PFBS)	mg/kg	0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002	<0.0002
4:2 Fluorotelomer sulfonic acid (4:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.005	<0.0005	<0.0005	<0.0005	<0.0005
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.01	<0.0005	<0.0005	<0.0005	<0.0005
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.005	<0.0005	<0.0005	<0.0005	<0.0005
10:2 Fluorotelomer sulfonic acid (10:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.005	<0.0005	<0.0005	<0.0005	<0.0005
N-Ethyl PFO sulfonamide (EtFOSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.005	<0.0005	<0.0005	<0.0005	<0.0005
N-Ethyl PFO sulfonamidoethanol (EtFOSE)	mg/kg	0.0005	<0.0005	<0.0005	<0.005	<0.0005	<0.0005	<0.0005	<0.0005
N-Methyl PFO sulfonamide (MeFOSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.005	<0.0005	<0.0005	<0.0005	<0.0005
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002	<0.0002
N-ethyl-PFO sulfonamidoacetic acid (EtFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002

Legend:
LOR - Limit of Reporting
PS - Primary Sample
- Not Analysed
FD - Field Duplicate
FT - Field Triplicate

Value exceeds the Defence Contamination Directive (Amendment 1) Interim Criteria



TABLE G
Soil Analytical Results
Per- and Polyfluoroalkyl Substances (PFAS)
Site: RAAF Scherger, Weipa (1218)
Project number: 1669283

Sample Type	BH027		BH027
Location Code	1218_BH027_0.5-0.75	1218_BH027_7.8-8.0	1218_BH027_7.8-8.0
Field ID	1218_BH027_0.5-0.75_170508	1218_BH027_7.8-8.0_170508	1218_QC104_170509
Sample Depth (m)	0.5-0.75	7.8-8.0	7.8-8.0
Sample Type	PS	PS	FD
Lab Report Number	EB1710297	EB1710297	EB1710297
Sample Date	8/05/2017	8/05/2017	9/05/2017

Human Health Residential Soil
Quality Guideline (direct
contact only)

ChemName	Unit	LOR			
Moisture	%	1			
Per- and polyfluoroalkyl substances (PFAS)				9.8	18.1
N-Methyl PFO sulfonamidoethanol (MeFOSE)	mg/kg	0.0005		<0.0005	<0.0005
Perfluorodecane sulfonic acid (PFDS)	mg/kg	0.0002		<0.0002	<0.0002
N-methyl-PFO sulfonamidoacetic acid (MeFOSAA)	mg/kg	0.0002		<0.0002	<0.0002
Perfluorooctanoic acid (PFOA)	mg/kg	0.0002	16	<0.0002	<0.0002
Perfluorooctane sulfonic acid (PFOS)	mg/kg	0.0002	6	<0.0002	<0.0002
Perfluorohexane sulfonic acid (PFHxS)	mg/kg	0.0002		<0.0002	<0.0002
PFAS (Sum of total - Lab Reported)	mg/kg	0.0002		<0.0002	<0.0002
Perfluorobutanoic acid (PFBA)	mg/kg	0.001		<0.001	<0.001
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0002		<0.0002	<0.0002
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0002		<0.0002	<0.0002
Perfluorodecanoic acid (PFDA)	mg/kg	0.0002		<0.0002	<0.0002
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002		<0.0002	<0.0002
Perfluorononanoic acid (PFNA)	mg/kg	0.0002		<0.0002	<0.0002
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0005		<0.0005	<0.0005
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0002		<0.0002	<0.0002
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0002		<0.0002	<0.0002
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0002		<0.0002	<0.0002
Perfluorooheptane sulfonic acid (PFHpS)	mg/kg	0.0002		<0.0002	<0.0002
Perfluoropentane sulfonic acid (PFPeS)	mg/kg	0.0002		<0.0002	<0.0002
Perfluorobutane sulfonic acid (PFBS)	mg/kg	0.0002		<0.0002	<0.0002
4:2 Fluorotelomer sulfonic acid (4:2 FTSA)	mg/kg	0.0005		<0.0005	<0.0005
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	mg/kg	0.0005	60	<0.0005	<0.0005
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	mg/kg	0.0005		<0.0005	<0.0005
10:2 Fluorotelomer sulfonic acid (10:2 FTSA)	mg/kg	0.0005		<0.0005	<0.0005
N-Ethyl PFO sulfonamide (EtFOSA)	mg/kg	0.0005		<0.0005	<0.0005
N-Ethyl PFO sulfonamidoethanol (EtFOSE)	mg/kg	0.0005		<0.0005	<0.0005
N-Methyl PFO sulfonamide (MeFOSA)	mg/kg	0.0005		<0.0005	<0.0005
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.0002		<0.0002	<0.0002
N-ethyl-PFO sulfonamidoacetic acid (EtFOSAA)	mg/kg	0.0002		<0.0002	<0.0002

Legend:

LOR - Limit of Reporting
PS - Primary Sample
FD - Field Duplicate
FT - Field Triplicate
- Not Analysed

Value exceeds the Defence Contamination Directive (Amendment 1) Interim Criteria



TABLE H
Sediment Analytical Results
Per- and Polyfluoroalkyl Substances (PFAS)
Site: RAAF Scherger, Weipa (1218)
Project number: 1669283

	SD001	SD002	SD003	SD004	QC102	SD005
Location Code	1218_SD001_0.0	1218_SD002_0.0	1218_SD003_0.0	1218_SD004_0.0	1218_SD004_0.0	1218_SD005_0.0
Field ID	1218_SD001_0.0_170504	1218_SD002_0.0_170504	1218_SD003_0.0_170504	1218_SD004_0.0_170504	1218_QC102_170504	1218_SD005_0.0_170504
Sample Depth (m)	0.15	0.15	0.15	0.15	0.15	0.15
Sample Type	PS	PS	PS	PS	FD	PS
Lab Report Number	EB1710297	EB1710297	EB1710297	EB1710297	EB1710297	EB1710297
Sampled Date	4/05/2017	4/05/2017	4/05/2017	4/05/2017	4/05/2017	4/05/2017

Human Health Residential Soil
Quality Guideline (direct
contact only)

ChemName	Unit	LOR	SD001	SD002	SD003	SD004	QC102	SD005
Moisture	%	1	19.2	16.7	10.5	7.3	8.8	26.6
Per- and polyfluoroalkyl substances (PFAS)								
N-Methyl PFO sulfonamidoethanol (MeFOSE)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Perfluorodecane sulfonic acid (PFDS)	mg/kg	0.0002	0.0004	0.0003	0.0003	<0.0002	<0.0002	<0.0002
N-methyl-PFO sulfonamidoacetic acid (MeFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0002	16	<0.0002	0.0004	<0.0002	<0.0002	<0.0002
Perfluorooctane sulfonic acid (PFOS)	mg/kg	0.0002	6	0.0019	0.0015	0.003	0.0006	0.001
Perfluorohexane sulfonic acid (PFHxS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
PFAS (Sum of total - Lab Reported)	mg/kg	0.0002	0.0023	0.0018	0.0051	0.0006	0.001	0.0005
Perfluorobutanoic acid (PFBA)	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0002	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.0002
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0002	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.0002
Perfluorodecanoic acid (PFDA)	mg/kg	0.0002	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.0002
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorononanoic acid (PFNA)	mg/kg	0.0002	<0.0002	<0.0002	0.0005	<0.0002	<0.0002	<0.0002
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluoropentane sulfonic acid (PFPeS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorobutane sulfonic acid (PFBS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4:2 Fluorotelomer sulfonic acid (4:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	mg/kg	0.0005	60	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10:2 Fluorotelomer sulfonic acid (10:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
N-Ethyl PFO sulfonamide (EtFOSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
N-Ethyl PFO sulfonamidoethanol (EtFOSE)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
N-Methyl PFO sulfonamide (MeFOSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
N-ethyl-PFO sulfonamidoacetic acid (EtFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Legend:
LOR - Limit of Reporting
PS - Primary Sample
- Not Analysed
FD - Field Duplicate
FT - Field Triplicate

Value exceeds the Department of Health - Human Health – Residential Soil Quality Guideline (direct contact only)



TABLE H
Sediment Analytical Results
Per- and Polyfluoroalkyl Substances (PFAS)
Site: RAAF Scherger, Weipa (1218)
Project number: 1669283

	SD006	SD007	SD008	SD009	SD010	SD011
Location Code	1218 SD006 0.0	1218 SD007 0.0	1218 SD008 0.0	1218 SD009 0.0	1218 SD010 0.0	1218 SD011 0.0
Field ID	1218 SD006 0.0 170505	1218 SD007 0.0 170505	1218 SD008 0.0 170505	1218 SD009 0.0 170505	1218 SD010 0.0 170505	1218 SD011 0.0 170505
Sample Depth (m)	0.15	0.15	0.15	0.15	0.15	0.15
Sample Type	PS	PS	PS	PS	PS	PS
Lab Report Number	EB1710297	EB1710297	EB1710297	EB1710297	EB1710297	EB1710297
Sampled Date	5/05/2017	5/05/2017	5/05/2017	5/05/2017	5/05/2017	5/05/2017

Human Health Residential Soil
Quality Guideline (direct
contact only)

ChemName	Unit	LOR	SD006	SD007	SD008	SD009	SD010	SD011
Moisture	%	1	22.7	59	2.7	38.6	3.6	29.8
Per- and polyfluoroalkyl substances (PFAS)								
N-Methyl PFO sulfonamidoethanol (MeFOSE)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Perfluorodecane sulfonic acid (PFDS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
N-methyl-PFO sulfonamidoacetic acid (MeFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0002	16	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorooctane sulfonic acid (PFOS)	mg/kg	0.0002	6	<0.0002	0.001	<0.0002	0.001	<0.0002
Perfluorohexane sulfonic acid (PFHxS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
PFAS (Sum of total - Lab Reported)	mg/kg	0.0002	<0.0002	0.0012	<0.0002	<0.0002	0.001	<0.0002
Perfluorobutanoic acid (PFBA)	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorodecanoic acid (PFDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorononanoic acid (PFNA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluoropentane sulfonic acid (PFPeS)	mg/kg	0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorobutane sulfonic acid (PFBS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4:2 Fluorotelomer sulfonic acid (4:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10:2 Fluorotelomer sulfonic acid (10:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
N-Ethyl PFO sulfonamide (EtFOSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
N-Ethyl PFO sulfonamidoethanol (EtFOSE)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
N-Methyl PFO sulfonamide (MeFOSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
N-ethyl-PFO sulfonamidoacetic acid (EtFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Legend:
LOR - Limit of Reporting
PS - Primary Sample
- Not Analysed
FD - Field Duplicate
FT - Field Triplicate

Value exceeds the Department of Health - Human Health – Residential Soil Quality Guideline (direct contact only)



TABLE H
Sediment Analytical Results
Per- and Polyfluoroalkyl Substances (PFAS)
Site: RAAF Scherger, Weipa (1218)
Project number: 1669283

	SD012	SD013
Location Code	1218 SD012 0.0	1218 SD013 0.0
Field ID	1218 SD012 0.0 170505	1218 SD013 0.0 170509
Sample Depth (m)	0.15	0.15
Sample Type	PS	PS
Lab Report Number	EB1710297	EB1710297
Sampled Date	5/05/2017	9/05/2017

Human Health Residential Soil
Quality Guideline (direct
contact only)

ChemName	Unit	LOR			
Moisture	%	1		19.6	52.7
Per- and polyfluoroalkyl substances (PFAS)					
N-Methyl PFO sulfonamidoethanol (MeFOSE)	mg/kg	0.0005		<0.0005	<0.0005
Perfluorodecane sulfonic acid (PFDS)	mg/kg	0.0002		<0.0002	<0.0002
N-methyl-PFO sulfonamidoacetic acid (MeFOSAA)	mg/kg	0.0002		<0.0002	<0.0002
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0002	16	<0.0002	<0.0002
Perfluorooctane sulfonic acid (PFOS)	mg/kg	0.0002	6	<0.0002	0.0002
Perfluorohexane sulfonic acid (PFHxS)	mg/kg	0.0002		<0.0002	<0.0002
PFAS (Sum of total - Lab Reported)	mg/kg	0.0002		<0.0002	0.0002
Perfluorobutanoic acid (PFBA)	mg/kg	0.001		<0.001	<0.001
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0002		<0.0002	<0.0002
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0002		<0.0002	<0.0002
Perfluorodecanoic acid (PFDA)	mg/kg	0.0002		<0.0002	<0.0002
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002		<0.0002	<0.0002
Perfluorononanoic acid (PFNA)	mg/kg	0.0002		<0.0002	<0.0002
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0005		<0.0005	<0.0005
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0002		<0.0002	<0.0002
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0002		<0.0002	<0.0002
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0002		<0.0002	<0.0002
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0002		<0.0002	<0.0002
Perfluoropentane sulfonic acid (PFPeS)	mg/kg	0.0002		<0.0002	<0.0002
Perfluorobutane sulfonic acid (PFBS)	mg/kg	0.0002		<0.0002	<0.0002
4:2 Fluorotelomer sulfonic acid (4:2 FTSA)	mg/kg	0.0005		<0.0005	<0.0005
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	mg/kg	0.0005	60	<0.0005	<0.0005
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	mg/kg	0.0005		<0.0005	<0.0005
10:2 Fluorotelomer sulfonic acid (10:2 FTSA)	mg/kg	0.0005		<0.0005	<0.0005
N-Ethyl PFO sulfonamide (EtFOSA)	mg/kg	0.0005		<0.0005	<0.0005
N-Ethyl PFO sulfonamidoethanol (EtFOSE)	mg/kg	0.0005		<0.0005	<0.0005
N-Methyl PFO sulfonamide (MeFOSA)	mg/kg	0.0005		<0.0005	<0.0005
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.0002		<0.0002	<0.0002
N-ethyl-PFO sulfonamidoacetic acid (EtFOSAA)	mg/kg	0.0002		<0.0002	<0.0002

Legend:

LOR - Limit of Reporting
PS - Primary Sample
- Not Analysed

FD - Field Duplicate
FT - Field Triplicate

Value exceeds the Department of Health - Human Health – Residential Soil Quality Guideline (direct contact only)



TABLE I
Investigation Derived Waste Analytical Results
Per- and Polyfluoroalkyl Substances (PFAS)
Site: RAAF Scherger, Weipa (1218)
Project number: 1669283

Sample Type	Investigation Derived Waste		
Location Code	1218_IDW01_170513	1218_IDW02_170513	1218_IDW03_170513
Location Description			
Field ID	1218_IDW01_170513	1218_IDW02_170513	1218_IDW03_170513
Sample Depth (m)	-	-	-
Sample Type	PS	PS	PS
Lab Report Number	EB1710297	EB1710297	EB1710297
Sampled Date	13/05/2017	13/05/2017	13/05/2017

ChemName	Unit	LOR	Human Health Residential Soil Quality Guideline (direct contact only)		
Moisture	%	1	7.6	8.5	8.4
Per- and polyfluoroalkyl substances (PFAS)					
N-Methyl PFO sulfonamidoethanol (MeFOSE)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005
Perfluorodecane sulfonic acid (PFDS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002
N-methyl-PFO sulfonamidoacetic acid (MeFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0002	16	<0.0002	<0.0002
Perfluorooctane sulfonic acid (PFOS)	mg/kg	0.0002	6	0.0004	0.0024
Perfluorohexane sulfonic acid (PFHxS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002
PFAS (Sum of total - Lab Reported)	mg/kg	0.0002	0.0004	0.0024	0.002
Perfluorobutanoic acid (PFBA)	mg/kg	0.001	<0.001	<0.001	<0.001
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002
Perfluorodecanoic acid (PFDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002
Perfluorononanoic acid (PFNA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002
Perfluoropentane sulfonic acid (PFPeS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002
Perfluorobutane sulfonic acid (PFBS)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002
4:2 Fluorotelomer sulfonic acid (4:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	mg/kg	0.0005	60	<0.0005	<0.0005
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005
10:2 Fluorotelomer sulfonic acid (10:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005
N-Ethyl PFO sulfonamide (EtFOSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005
N-Ethyl PFO sulfonamidoethanol (EtFOSE)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005
N-Methyl PFO sulfonamide (MeFOSA)	mg/kg	0.0005	<0.0005	<0.0005	<0.0005
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002
N-ethyl-PFO sulfonamidoacetic acid (EtFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	<0.0002

Legend:

LOR - Limit of Reporting
PS - Primary Sample
- Not Analysed

FD - Field Duplicate
FT - Field Triplicate

Value exceeds the Department of Health - Human Health – Residential Soil Quality Guideline (direct contact only)