

Toxic Heavy Metals Taskforce Tasmania

Rosebery heavy metals Table 2008 Biological and environmental results : Grey = HIGH

Metals	Metals HIL (mg/kg) soil	House 1			House 2				House 3			House 4		
Arsenic	100	6	67	427	646	146	23		115	202		46	84	
Cadmium	20	4	5	5	7	34	6		11	1		< 1	3	
Chromium	12,000	3	41	8	8	30	21		55	24		34	20	
Copper	1,000	219	99	12	120	219	171		543	72		34	180	
Manganese	1,500	2,550	2,010	540	1,190	4,010	770		1,240	1,060		234	1,230	
Lead	300	342	558	92	162	4,590	935		604	2,460		171	525	
Strontium	not set	not sampled	not sampled	not sampled	4	35	20			3				
Zinc	7,000	500	1,840	200	491	5,950	2,190		1,910	283		242	1,380	
	recreational contact guidelines µg/L (water seepage)													
Arsenic	70	170	431	482	178	65		370		2				
Cadmium	20	10	2	3	6	3		21		0.9				
Chromium	50	98	13	13	16	10		23		< 1				
Copper	2,000	170	26	23 180	70	78		617		29				
Manganese	5,000	15,100	2,840	5,790	819	175		2,130		1,610				
Lead	100	1,530	248	146	721	297		1,300		13.3				
Strontium	not set	not sampled	not sampled	not sampled										
Zinc	not set	2,370	339	450	1,770	570		7,680		212				
Arsenic	There is no residential guidelines for house hold dust – (mg/kg)	76	31		93	20		18						
Cadmium		5	9		5	4	2							
Chromium		27	31		87	5	78							
Copper		84	146		195	293	311							
Manganese		7,040	9,430		2,780	717	499							
Lead		625	298		612	502	567							
Zinc		3,170	2,70		2,080	1,490	2,160							
Nickel		17	69		28	19	57							
	Urine 24 hour ref range	Resident 1	Resident 1		Resident 2	Resident 2	Resident 3		Resident 4		Resident 6	Resident 7		
Arsenic Excr	0-1.10 µmol/d	1.10	<0.19		<0.10	0.90	0.56		0.12		<0.24	1.83		
Arsenic / Creat	0-0.060 µmol/mmol	0.096	<0.030		<0.015	0.096	0.069		0.012		<0.029	0.125		
Cadmium Excr	0-30 nmol/d	<7	1,257		232				5		<9			
Copper	<1.6 µmol/d	1.14				0.10	0.21		0.26		0.45	4.65		
Lead	0.00-0.48 µmol/d	<0.02	<0.02		<0.01				<0.01		<0.02	<0.02		
Zinc	8.0-18.0					13.2			2.4		<1.2	1.6		
Nickel	0.010-0.100 µmol/d	<0.071				<0.67			0.101					
	Urine spot – Ref range	Resident 1												
Arsenic	0.0-35 µg/L	<50												
Cadmium	0.0-2.6 µg/L	<5												
Chromium	0.0-5.0 µg/L	7												
Lead	0-23 µg/	<35												
	Blood ref range	Resident 1	Resident 1		Resident 2	Resident 2	Resident 2	Resident 3	Resident 4	Resident 4	Resident 5	Resident 6	Resident 7	Resident 8
Arsenic	0.00-0.70 µmol/L	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	0-40 nmol/L	<4	<4		29	29	27	7	63	59	<4	<4	<4	<4
B-lead	0-0.72 µmol/L	0.10	0.10		0.13	0.10		0.17	0.23	0.25	0.11	0.04	0.12	0.07
Copper	3-25 µmol/l	1	16.7		29.6	26.6	29.3	19.6	22.6	28.1	14	27.2	13.2	31.3
Manganese			<7							47		<7	<7	10
B-Lead	0-14 µg/dL	2	2		3	2		4	5	5	2	1	2	1
Zinc	2-28 µmol/L		19.4			22.1			22.3	22.7	30.7	118.	14.4	10.5
	Hair analysis acceptable range	Resident 1		Resident 2										
Arsenic	<0.08	0.04		0.037										
Cadmium	<0.15	n.d		n.d										
Chromium	0.23-0.9	0.598		0.299										
Cobalt	0.02-0-105	0.18		0.054										
Copper	9 – 30	41.654		41.605										
Manganese	0.18-0.6	0.47		0.901										
Lead	<1	0.891		0.152										
Strontium	<5	5.408		1.745										
Zinc	100-200	131.16	129.29											