

# Toxic Heavy Metals Taskforce Tasmania

## Rosebery heavy metals Table 2008 ( updated 12/5/10)

### Biological and environmental results : Grey = HIGH

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	120000	3	41	8	8	30	21	55	24	34	20
Copper	1000	219	99	12	120	219	171	543	72	34	180
Manganese	1500	2550	2010	540	1190	4010	770	1240	1060	234	1230
Lead	300	342	558	92	162	4590	935	604	2560	171	525
Strontium	not set	not sampled	not sampled	not sampled	4	35	20		3		
Zinc	7000	500	1840	200	491	5950	2190	1910	283	242	1380

	recreational contact guidelines ug/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	20000	170	26	23	180	78	617		29		
Manganese	5000	15100	2840	5790	819	175	2130		1610		
Lead	100	1530	248	146	721	297	1300		13.3		
Strontium	not set	not sampled	not sampled	not sampled							
Zinc	not set	2370	339	450	1770	570	7680		212		

	There is no residential guidelines for house hold dust - (mg/kg)								
Arsenic		76	31	93	20	18			
Cadmium		5	9	5	4	2			
Chromium		27	31	87	5	78			
Copper		84	146	195	293	311			
Manganese		7040	9430	2780	717	499			
Lead		625	298	612	502	567			
Zinc		3170	2070	2080	1490	2160			
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 umol/d	1.10	<0.19	<0.10	0.90	0.56	0.12	<0.24	1.83
Arsenic/Creat	0-0.060 umol/mmol	0.096	<0.030	<0.015	0.096	0.069	0.012	<0.029	0.125
Cadmium Excr	0-30 nmol/d	<7	1257	232			5	<9	
Copper	<1.6 umol/d	1.14			0.10	0.21	0.26	0.45	4.65
Lead	0.00-0.48 umol/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 umol/d	<0.071			<0.67		0.101		

	Urine spot - Ref range	Resident 1
Arsenic	0.0-35 ug/L	<50
Cadmium	0.0-2.6 ug/L	<5
Chromium	0.0-5.0 ug/L	7
Lead	0-23ug/L	<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 umol/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 umol/L	0.10	0.10	0.13	0.10		0.17	0.23	0.25	0.11	0.04	0.12	0.07
Copper	13-25 umol/l		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 ug/dL	2	2	3	2		4	5	5	2	1	2	1
Zinc	12-28 umol/L		19.4		22.1			22.3	22.7	30.7	11.8	14.4	10.5

	Hair analysis acceptable range	Resident 1
Arsenic	<0.08	0.04
Cadmium	<0.15	n.d
Chromium	0.23-0.9	0.598
Cobalt	0.02-0.105	0.18
Copper	9 - 30	41.654
Manganese	0.18-0.6	0.47
Lead	<1	0.891
Strontium	<5	5.408
Zinc	100-200	131.16

Resident 2
0.037
nd
0.299
0.054
41.605
0.901
0.152
1.745
129.29