Heavy metals in precipitation 2013 - % deviation from expected value

	Arsenic				Cadmium				Chromium				Copper				Lead				Nickel				Zinc			
	% deviation from expected				% deviation from expected				% deviation from expected				% deviation from expected				% deviation from expected				% deviation from expected				% deviation from expected			
Lab no	H1	H2	H3	H4	H1	H2	H3	H4	H1	H2	H3	H4	H1	H2	H3	H4	H1	H2	H3	H4	H1	H2	H3	H4	H1	H2	H3	H4
3	3	3	2	0	10	9	8	-2	-6	-7	-10	-9	0	0	4	0	0	-1	-3	-4	-3	-2	-6	-6	17	17	16	15
4	4	0			-7	22			-8	-4			-5	-7			-7	-8			-8	-7						
5	3	4	6	8	7	7	10	10	2	3	6	7	4	5	9	11	8	8	9	10	4	5	8	9	6	8	8	13
6	6	10	-2	0	0	-2	-17	0	-3	-3	-18	-7	-3	-3	-28	-35	-3	-3	-24	-17	-5	-3	-4	-17	6	5	29	33
7	-4	-2	0	-14	0	0	0	0	26	25	25	21	21	21	28	25	-5	-5	-5	-3	0	4	-4	0	27	24	32	50
8	-2	-2	-3	-3	-8	-7	-3	-7	-5	-6	-1	-1	-6	-6	-1	-2	-10	-10	-8	-9	-8	-8	-8	-7	-5	-5	-4	-3
10					-17	-19	-42	-38									10	12	39	34								
15	4	3	0	-5	0	0	0	17	-2	-1	0	0	1	-2	13	4	1	-2	0	2	-3	-5	0	4	5	5	4	7
16					0	0	8	0	0	0	0	0	-4	-6	0	0	-5	0	5	0	2	1	0	0	-5	-5	-11	-7
20	1	0	-5	-1	5	2	-7	-5	-1	-2	-3	1	-1	-2	-3	1	-4	-4	-1	1	-1	-3	-1	4	1	0	-2	15
24	-2	-5		32	0	-2	-33	-50	-15	-17	-10	-14	17	2	122	30	-21	-9	-70	-80	-19	-21	-58					
31	-4	-4	-4	-4	-10	-9	-15	-13	-2	-3	-3	-2	-8	-8	-9	-1	-7	-9	-20	-16	3	3	13	6	-2	0	5	14
32	11	6	0	9	0	0	0	0	-23	-20	-13	-14	-13	0	11	40	-21	-18	-20	-20	8	20	0	-11	14	-14	5	14
33	50	41	-28	-27	-7	0	17	0	2	3	25	29	-4	0	33	0	5	-2	-20	-33	50	7	-42	-22	-2	0	0	14
34	-21	-20	-28	-24	43				-34	-26	-33	-48	-15	-16	15	-4	32	27	400	233	-19	-19	-23	-24	-12	-13	6	2
36	0	0	-3	-5	0	-2	23	48	-3	-4	3	10	-1	17	10	13	-8	-8	-2	5	-4	-4	-5	-6	13	10	5	7
38	-3	-2	17	8	-3	-4	-17	0	-5	-5	-10	-9	-3	-5		-50	-2	-1	-3	8	-6	-6	-13	-14	-5	-6	-4	-5
48	-1	0	2	1	-1	2			-3	-3			-1	-2			1	0	3	0	-1	-1			2	3	36	51
110	-3	-3	-2	-5	-7	-2			0	0	1	4	-1	-3	-10	-2	0	-1	0	1	-1	-2	0	-2	0	-1	-15	-21
112					3	2	0	5	3	3	3	4	-1	-1	-2	0	3	3	5	1	4	4	-2	-2	2	2	3	3
113	-13	-7			-24	-15			-5	-5	9	19	-30	-38			-10	-5			-5	0			-4	-4	-63	-50
114	-39	-41	-11	-18	-14	0	67	67	0	0	0	0	-29	-11	-22	-20	0	0	0	0	0	-1	0	11	0	0	0	0
115	2	1	18	11	0	1	0	3	-8	-8	-5	-9	-4	-4	-1	1	7	14	4	8	-7	-8	-8	-9	1	1	3	4
117					13	22	0	0	0	8	-14	-16	2	1	-12	-8	0	4	-11	-5	17	10	0	18	0	0	-5	-19
118	-23	-25	-22	-18	-1	-6	-50	-50	-6	-8	-25	-29	-5	-7	0	10	-6	-8	810	413	-7	-4	-17	-22	0	-5	-4	10
120	11	6		-55	-14	-20			9	-9	25	14	-9	-9	100	80	-16	-5	-50	-67	-17	7	-58		1	2	7	10
124									9	8			7	14			-5	7			-2	-5			3	3	3	6
125	9	5	4	5	2	0	-2	2	1	-2	-1	-1	4	0	1	3	6	2	3	5	6	-2	5	18	14	9	9	11
129									2362	2033	17400	19900													-9	1614	3584	
132									0	0			-11	-9			-3	-2			13	-29			-4	-5	-36	-64
141					0	-1	-2	-8																				
146	1	1	6	3	1	2	7	0	-4	-2	-9	-6	2	1	5	1	-1	0	-2	-2	-6	-6	-17	-19	9	10	8	13
165	-17	-16	-27	-44	-14	18	17	-17	256	40	63	143	7	76	322	180	23	15	390	87	158	80	233	222	-2	6	187	86
166													0	1			1	2							0	0	0	-3
171	2	8	5	5	3	6	5	3	-7	-1	4	3	2	6	10	7	-6	-4	-7	-6	2	6	7	7	11	16	15	14
174					-13	-16	-12	-17					-23	-20	-12	-3	45	50	60	73								
178	2	4	2	5	0	0	-17	-17	-14	-12	-19	-14	-8	-6	-18	-11	-7	-6	-9	-6	-9	-14	-8	-9	-10	-8	-17	-17
179	-8	-11	-40	-35	-10	-18	-28	-37	-4	-13	11	-10	-7	-16	36	-5	-39	-30	13	11	7	9	41	-8	5	4	-8	-13
181	0	-2	-2	-4	1	-2	-17	-17	-2	1	0	0	1	1	0	10	0	0	0	0	0	3	0	11	2	1	-5	14
184	-10	-10			4	4			-5	-3							1	-4							2	1		
186	-6	-16	-10	-36					-6	-8	-24	0																
187	-6	-16	33	9	14	10	233	233	8	12	6	-21	-33	-14	-72	-75	10	6	-10	-13	65	47	-33	33	-1	-5	-26	-14
189	-7	11		-55					-8	-7							-4	-4	-50	-67	-10	-5			7	3		
194	9	13																							-2	-2		
195	-12	-10			-3	8			-27	-24	-68	-64	-15	-17	-64	-68	-5	0		-56	-19	-18	-69	-59	-11	-10	3	6
197					-33	-48							-33	-56			-32	-27							-16	-16		
198									-62	-67											0	20			-1	-2	5	14

between ± 25 and 50%
more than ±50%
for low theoretical values of Pb, Ni, Cr and As (< 1 µg/l), Cd < 0.5 µg/l, Zn < 10 µg/l, Cu < 2 g/l

between ± 15 and 30%
more than ±30%
for high theoretical values of Pb, Ni, Cr and As (> 1 µg/l), Cd > 0.5 µg/l, Zn > 10 µg/l, Cu > 2 g/l