

Heavy metals in precipitation 2023 - % deviation from expected value

| Lab no | Arsenic % deviation from expected | | | | Cadmium % deviation from expected | | | | Chromium % deviation from expected | | | | Copper % deviation from expected | | | | Lead % deviation from expected | | | | Nickel % deviation from expected | | | | Zinc % deviation from expected | | | | |
|--------|--------------------------------------|-----|-----|-----|--------------------------------------|-------|--------|--------|---------------------------------------|-------|-------|-------|-------------------------------------|------|------|-------|-----------------------------------|-----|-----|-----|-------------------------------------|------|------|-----|-----------------------------------|-----|-----|-----|--|
| | 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 | |
| 4 | 13 | 18 | -5 | -6 | 16 | | | | 24 | 39 | 71 | 53 | 28 | 25 | | | -1 | 4 | 0 | 0 | 67 | 24 | 19 | 26 | 8 | 68 | 21 | 29 | |
| 5 | 2 | 1 | 10 | 5 | 2 | -8 | 13 | -5 | -2 | 0 | -4 | -7 | 4 | 6 | 0 | 11 | 0 | 0 | 0 | 0 | 4 | 2 | 11 | 9 | 2 | 4 | 2 | 1 | |
| 6 | 20 | | | | | | | | | | | | | | | | -8 | | | | | | | | | | | | |
| 7 | 15 | 32 | 67 | 35 | -13 | -2 | -11 | -2 | -2 | 5 | 7 | 12 | -2 | -3 | -29 | -14 | 0 | 1 | 0 | -2 | 65 | 9 | -9 | 7 | 0 | 1 | 0 | -1 | |
| 8 | 4 | 3 | 4 | 6 | 5 | 3 | -2 | 8 | -1 | 1 | 7 | 6 | 3 | 0 | 5 | | 0 | 0 | 2 | 1 | 12 | -2 | -2 | -13 | 0 | 4 | 1 | 1 | |
| 10 | 24 | | | | | 346 | | | | | | | | | | | -26 | | | | | | | | | | | | |
| 15 | -4 | 0 | -8 | -7 | -1 | -2 | -2 | -2 | -4 | -3 | | | 0 | 0 | 4 | 9 | -2 | -1 | -1 | 1 | 1 | 0 | 19 | -6 | 6 | 7 | 12 | 12 | |
| 16 | | | | | -3 | -5 | -14 | -21 | -14 | -8 | 3 | 8 | -31 | -27 | -20 | -33 | -8 | -9 | -7 | -10 | -11 | 11 | -33 | -35 | 14 | 42 | 22 | 16 | |
| 20 | 4 | 3 | -5 | -27 | -1 | -2 | -2 | -2 | -1 | -2 | -1 | -1 | 3 | 9 | 0 | 10 | 5 | 5 | 2 | 2 | 0 | 2 | -4 | 16 | 8 | 47 | 1 | 8 | |
| 22 | | | | | -43 | | -30 | -19 | | | | | 0 | | 3 | 30 | -2 | | 41 | 15 | | | | | | | | | |
| 24 | 8 | 29 | -18 | -13 | 13 | 86 | | | | | | | | | | | -12 | -4 | -4 | -4 | | | | | | | | | |
| 31 | -10 | 108 | 175 | 278 | -4 | 32 | 186 | 184 | -21 | 0 | 141 | 226 | -13 | -6 | 96 | 194 | -26 | 14 | 74 | 29 | 21 | 104 | 139 | 84 | -11 | 4 | -15 | -12 | |
| 32 | -11 | 9 | 21 | -5 | -10 | 3 | 79 | 184 | 3 | -8 | 103 | 46 | 37 | 22 | 61 | 279 | 38 | 2 | 2 | 10 | | | | | 35 | 36 | 73 | 96 | |
| 33 | -4 | -1 | 4 | 2 | 16 | 67 | 61 | 37 | -6 | 30 | 19 | -2 | 62 | 419 | 356 | 8 | 12 | 175 | 117 | -15 | -16 | 111 | 1 | -26 | 7 | 134 | 70 | -4 | |
| 34 | 13 | 2 | -12 | -19 | -13 | -2 | 123 | 184 | -28 | 13 | -57 | 159 | 16 | 3 | 192 | 134 | -35 | 126 | 4 | 92 | -15 | 129 | 233 | 89 | -33 | 13 | -24 | -33 | |
| 35 | 12 | 12 | 12 | 13 | 8 | 8 | 7 | 8 | | | | | | | | | 3 | 4 | 4 | 5 | 7 | 15 | 13 | 18 | | | | | |
| 36 | -4 | -4 | | | 2 | 3 | | | -1 | | | | -5 | -3 | | | -4 | -4 | -3 | -5 | 16 | | | | -8 | -7 | -4 | -10 | |
| 41 | -1 | 11 | | | | | | | | | | | | | | | 0 | -2 | -3 | -1 | | | | | 15 | 24 | 14 | 20 | |
| 43 | 3 | -36 | 4 | 42 | 37 | 23 | 61 | -41 | -3 | -18 | -51 | -41 | -36 | -28 | -56 | -55 | -11 | -17 | -17 | -16 | 0 | -19 | -23 | 49 | -83 | -85 | -85 | -53 | |
| 47 | 2 | -2 | -1 | -6 | 2 | 3 | -2 | 8 | -1 | -2 | 17 | 1 | -1 | -4 | -7 | 13 | 0 | -5 | -4 | -1 | 2 | 5 | 0 | 29 | -7 | -7 | -11 | -3 | |
| 48 | -3 | -5 | -5 | -5 | -1 | -2 | -2 | 8 | -2 | -3 | -13 | -8 | -2 | -3 | -1 | 5 | 5 | 4 | 3 | 5 | 0 | -6 | -6 | -10 | 10 | 15 | 14 | 14 | |
| 49 | 73 | 60 | 67 | 69 | 31 | 27 | 7 | 8 | -7 | -8 | 51 | -18 | 12 | 7 | 15 | 19 | -18 | -30 | -35 | -31 | -13 | -21 | -21 | -36 | 139 | 112 | 144 | 113 | |
| 51 | 5 | 1 | -2 | -4 | -10 | -26 | -29 | -41 | -3 | -5 | | | -1 | -1 | -3 | 3 | 2 | 0 | 1 | -1 | 10 | 29 | 15 | 6 | 40 | 50 | 43 | 30 | |
| 53 | 11 | 6 | 13 | 15 | -7 | 18 | -20 | 8 | 0 | -1 | 16 | -2 | -7 | -4 | -2 | 1 | -8 | -6 | 3 | -7 | 3 | 1 | 8 | 0 | -22 | -18 | -20 | -17 | |
| 54 | 0 | | | | 2 | 3 | | | -5 | -5 | | | -8 | -12 | | | -2 | -6 | -9 | -9 | -21 | | | | -13 | -12 | -8 | -9 | |
| 112 | 6 | 6 | 5 | 0 | 6 | 5 | 3 | 1 | -8 | -8 | -4 | -5 | -3 | -4 | -1 | 5 | -3 | -3 | -3 | -2 | 24 | -7 | -7 | -21 | 13 | 14 | 14 | 14 | |
| 115 | 14 | 2 | -4 | 19 | 8 | 18 | 7 | 8 | 9 | 8 | 0 | 1 | 12 | 8 | 3 | 8 | 2 | 2 | 2 | 0 | 8 | 19 | 5 | -8 | 11 | 14 | 13 | 3 | |
| 117 | | | | | -27 | -61 | | | | | | | -7 | -14 | 238 | -6 | 3 | 4 | -3 | -8 | | | | | 35 | 47 | 61 | 50 | |
| 121 | 1 | -6 | 6 | 0 | -1 | -12 | -2 | 8 | 4 | 5 | 1 | 1 | -86 | -98 | -94 | -92 | -29 | -42 | -55 | -49 | -13 | -27 | -30 | 76 | 35 | 33 | 36 | 32 | |
| 125 | 98 | | | | 9 | | | | 3 | 10 | | | 3 | 10 | | | -13 | -17 | -17 | -16 | 25 | 2 | | 2 | -20 | -25 | -33 | -29 | |
| 129 | 11 | 12 | 19 | 46 | 2 | -5 | 2 | 10 | 1 | 2 | 3 | -1 | 4 | 0 | 5 | 0 | 4 | 2 | 7 | 8 | 3 | 5 | -2 | -14 | 8 | 6 | 29 | 4 | |
| 145 | 1 | 7 | 8 | 8 | 39435 | 71959 | 131150 | 148920 | 1864 | 10614 | 31757 | 28135 | 6598 | 6518 | 8471 | 15994 | -3 | -1 | 2 | -2 | 7729 | 3429 | 2757 | | -2 | -3 | -4 | -3 | |
| 146 | -2 | | | | 9 | 3 | 7 | 3 | 1 | 3 | 13 | 7 | 8 | 5 | 5 | 13 | -3 | -1 | 2 | -2 | 2 | 6 | 9 | -8 | -2 | -3 | -4 | -3 | |
| 166 | | | | | 5 | | | | -5 | -5 | | | -23 | -25 | -67 | -61 | -1 | -2 | -1 | -3 | 1 | -9 | 2 | 140 | 0 | 0 | 12 | 1 | |
| 169 | 0 | -11 | -14 | -13 | 2 | -2 | -2 | -2 | -2 | 11 | | 49 | 1 | -3 | | | -2 | -4 | -4 | -3 | 8 | 11 | 13 | 17 | 8 | 11 | 13 | 17 | |
| 171 | -2 | -4 | -3 | -5 | -7 | -4 | -14 | -17 | -4 | -4 | 2 | -1 | -4 | -5 | -9 | -4 | -4 | -5 | -3 | -5 | -3 | -7 | 0 | -22 | -5 | 3 | -8 | -9 | |
| 178 | -36 | 15 | -6 | 1 | -45 | 47 | -2 | 37 | -28 | 5 | 74 | 69 | -17 | 18 | 60 | 69 | -34 | 6 | 0 | 0 | 6 | -3 | 1 | -18 | 0 | -2 | -1 | 0 | |
| 183 | | | | | 5 | -7 | 16 | -31 | 7 | 16 | 19 | 14 | 16 | 17 | 31 | 19 | 20 | 9 | 27 | 28 | 0 | -2 | -16 | 1 | 4 | 6 | 8 | 4 | |
| 185 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 187 | 1 | 11 | | | | | | | 9 | | | | 16 | -2 | | | | | | | | | | | | | | | |
| 189 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 193 | 5 | 8 | | | | | | | 1 | | | | 17 | 423 | 114 | 681 | | | | | | | | | | | | | |
| 203 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 207 | -11 | -9 | -31 | -18 | 8 | 18 | 7 | 37 | -8 | -7 | -14 | -14 | 22 | -20 | -69 | -80 | 3 | 8 | 11 | 7 | 0 | -3 | -16 | -36 | -71 | -69 | -46 | -72 | |
| 208 | 34 | 75 | 68 | 58 | 377 | 101 | 302 | 459 | 65 | 26 | 89 | 101 | 183 | 144 | 332 | 498 | 43 | 71 | 40 | 32 | 133 | 56 | 53 | 46 | 203 | 80 | 242 | 122 | |
| 211 | 3 | 6 | 23 | 24 | -1 | -12 | 67 | -25 | -5 | -10 | 5 | -17 | 2 | -4 | -3 | -18 | -3 | 2 | 5 | 7 | -45 | -39 | -91 | -65 | -9 | -12 | -10 | -9 | |
| 212 | 3 | -68 | | | -20 | -3 | -93 | -94 | 2 | 0 | 23 | -6 | 2 | 0 | 23 | -6 | 29 | 38 | 46 | 33 | 5 | -94 | -92 | -94 | 67 | 76 | 102 | 90 | |

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