

Table 1 Distribution of lead concentrations in drinking water supplies in 18 districts of Karachi: comparison of treated surface water and untreated ground water supplies ($n = 6$ samples in each district)

| District | Lead levels in surface water (ppb) | Lead levels in ground water (ppb) | <i>t</i> -value | <i>P</i> -value |
|-----------------|---------------------------------------|--------------------------------------|-----------------|-----------------|
| | Mean (SD) | Mean (SD) | | |
| Bin Qasim | 13 (15) | 14 (18) | -0.07 | 0.9 |
| Gidap | 16 (19) | 28 (27) | -0.1 | 0.3 |
| Gulshan | 26 (14) | 33 (18) | -0.67 | 0.5 |
| North Nazimabad | 23 (43) | 35 (41) | -0.47 | 0.6 |
| Shah Faisal | 20 (15) | 65 (30) | -3.25 | 0.01 |
| New Karachi | 95 (19) | 93 (30) | 0.12 | 0.9 |
| Gulberg | 98 (39) | 100 (92) | -2.5 | 0.9 |
| Sadar | 75 (21) | 135 (59) | -2.4 | 0.04 |
| Site | 110 (55) | 140 (44) | -0.4 | 0.6 |
| Landhi | 100 (76) | 160 (74) | -1.4 | 0.2 |
| Malir | 135 (60) | 168 (79) | -0.81 | 0.43 |
| Korangi | 105 (49) | 185 (39) | -3.1 | 0.01 |
| Liaqatabad | 72 (34) | 188 (174) | -1.6 | 0.1 |
| Jamsheed | 130 (58) | 207 (105) | -1.5 | 0.1 |
| Baldia | 75 (16) | 207 (108) | -2.9 | 0.02 |
| Kimari | 120 (51) | 270 (1370) | -2.5 | 0.03 |
| Liyari | 92 (26) | 270 (47) | -0.82 | < 0.001 |
| Orangi | 85 (27) | 320 (174) | -3.2 | 0.02 |

ppb = parts per billion; *SD* = standard deviation.