Table S2. Values from the seven common phthalates measured in CHEAR QC pools A and B from 5 CHEAR studies. Batch numbers are provided per study and overall. All values are reported in ng/mL.

| Study # | Run order | Pool A | Pool B |
|---------|-----------|--------|--------|
|         | MBZP | MECPP | MEHHP | MEOHP | MEP | MIBP | MNBP | MBZP | MECPP | MEHHP | MEOHP | MEP | MIBP | MNBP |
| 1       | 0.96  | 5.23  | 2.89  | 1.82  | 11.9 | 3.75 | 5.92 | 1.31 | 6.27  | 4.17  | 2.39  | 12.0 | 11.40 | 8.16 |
| 2       | 0.85  | 5.10  | 2.80  | 1.75  | 12.1 | 2.89 | 5.72 | 1.29 | 6.43  | 4.42  | 2.50  | 11.6 | 4.01  | 6.86 |
| 3       | 0.77  | 5.10  | 2.64  | 1.72  | 14.9 | 3.04 | 5.45 | 1.28 | 6.28  | 4.36  | 2.53  | 14.0 | 4.25  | 6.74 |
| 4       | 0.76  | 5.07  | 2.74  | 1.72  | 15.1 | 0.71 | 4.57 | 1.15 | 6.13  | 4.02  | 2.26  | 15.7 | 4.06  | 5.95 |
| 5       | 1.03  | 7.40  | 3.10  | 2.21  | 15.9 | 3.65 | 6.85 | 1.36 | 8.49  | 4.19  | 2.53  | 15.4 | 4.87  | 6.55 |
| 6       | 1.05  | 7.29  | 3.14  | 2.15  | 15.1 | 3.04 | 6.59 | 1.35 | 8.55  | 4.10  | 2.66  | 15.4 | 3.17  | 6.65 |
| 7       | 1.09  | 7.19  | 3.19  | 2.22  | 15.6 | 2.55 | 6.24 | 1.38 | 8.52  | 4.02  | 2.66  | 15.6 | 3.43  | 6.65 |
| 8       | 1.09  | 7.10  | 2.91  | 2.21  | 15.6 | 3.30 | 6.27 | 1.41 | 8.56  | 3.87  | 2.63  | 15.7 | 2.94  | 6.39 |
| 9       | 0.94  | 7.07  | 2.61  | 1.99  | 14.8 | 2.96 | 6.12 | 1.36 | 8.56  | 4.04  | 2.53  | 15.5 | 2.77  | 6.17 |
| 10      | 0.97  | 7.08  | 2.81  | 2.09  | 15.5 | 2.52 | 5.92 | 1.42 | 9.16  | 3.70  | 2.69  | 15.1 | 3.13  | 6.14 |
| 11      | 1.00  | 6.96  | 2.92  | 1.99  | 15.2 | 3.36 | 6.04 | 1.36 | 9.25  | 3.69  | 2.80  | 16.3 | 3.39  | 6.30 |
| 12      | 1.00  | 6.92  | 3.09  | 1.95  | 14.7 | 2.03 | 6.05 | 1.36 | 8.80  | 3.43  | 2.53  | 16.1 | 3.07  | 6.37 |
| 13      | 0.98  | 7.54  | 2.96  | 2.00  | 16.1 | 2.49 | 6.20 | 1.45 | 8.53  | 4.47  | 2.61  | 16.4 | 2.85  | 6.07 |
| 14      | 1.08  | 7.57  | 2.82  | 2.12  | 16.1 | 2.53 | 6.35 | 1.43 | 8.54  | 4.60  | 2.64  | 16.2 | 3.74  | 6.08 |
| 15      | 0.98  | 7.48  | 2.74  | 2.05  | 15.4 | 2.76 | 6.42 | 1.52 | 9.69  | 4.79  | 2.68  | 17.1 | 3.56  | 6.19 |
| 16      | 1.10  | 7.75  | 3.11  | 2.09  | 16.4 | 3.08 | 7.08 | 1.40 | 9.34  | 4.67  | 2.69  | 17.0 | 4.90  | 7.00 |
| 17      | 1.06  | 7.62  | 3.24  | 2.05  | 16.4 | 3.13 | 6.62 | 1.41 | 9.46  | 4.42  | 2.60  | 17.4 | 4.78  | 6.30 |
| 18      | 1.03  | 7.25  | 2.99  | 2.00  | 14.8 | 3.14 | 5.94 | 1.43 | 9.39  | 4.33  | 2.67  | 17.7 | 3.55  | 6.89 |
| 19      | 0.97  | 7.36  | 2.97  | 1.97  | 14.5 | 3.80 | 5.93 | 1.40 | 9.45  | 4.59  | 2.65  | 18.0 | 4.34  | 6.59 |
| 20      | 1.04  | 7.19  | 2.73  | 2.02  | 14.6 | 2.72 | 5.86 | 1.38 | 9.29  | 4.41  | 2.67  | 17.0 | 3.50  | 6.76 |
| 21      | 1.07  | 7.47  | 3.09  | 2.13  | 16.0 | 3.20 | 6.16 | 1.38 | 9.19  | 4.20  | 2.61  | 16.2 | 3.32  | 6.17 |
| 22      | 1.06  | 7.66  | 3.18  | 2.15  | 15.3 | 2.83 | 6.32 | 1.36 | 9.15  | 4.24  | 2.64  | 15.2 | 3.77  | 6.08 |
| 23      | 0.90  | 7.53  | 2.74  | 1.93  | 14.9 | 2.66 | 5.80 | 1.41 | 9.41  | 4.27  | 2.59  | 16.9 | 3.78  | 6.56 |
| 24      | 0.86  | 7.09  | 2.82  | 1.93  | 15.0 | 2.76 | 5.65 | 1.44 | 9.45  | 4.08  | 2.59  | 16.9 | 3.56  | 6.39 |
| 25      | 0.91  | 7.12  | 2.84  | 1.94  | 14.6 | 1.95 | 5.61 | 1.48 | 9.51  | 4.23  | 2.69  | 16.9 | 3.60  | 6.19 |
| 26      | 0.80  | 7.08  | 2.79  | 1.93  | 13.9 | 3.05 | 5.85 | 1.38 | 8.96  | 4.00  | 2.57  | 15.0 | 2.38  | 5.98 |
| 27      | 0.90  | 7.11  | 2.77  | 1.95  | 15.8 | 3.35 | 6.61 | 1.22 | 8.83  | 4.06  | 2.64  | 16.7 | 2.46  | 5.68 |
| 28      | 0.94  | 7.14  | 2.75  | 2.01  | 15.3 | 2.52 | 6.28 | 1.27 | 9.23  | 4.06  | 2.58  | 17.5 | 3.39  | 6.25 |
Table S2. Values from the seven common phthalates measured in CHEAR QC pools A and B from 5 CHEAR studies. Batch numbers are provided per study and overall. All values are reported in ng/mL.

| Study # | Run order | A     |     |     |     |     |     |     |     |     |     |     |
|---------|-----------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 3       | 29        | 0.97  | 7.00| 2.73| 1.93| 15.3| 2.60| 5.46| 1.48| 8.85| 4.05| 2.60|
|         | 30        | 0.84  | 3.57| 2.20| 2.24| 13.2| 3.69| 5.98| 1.49| 6.11| 2.70| 3.15|
|         | 31        | 1.05  | 4.73| 2.21| 2.67| 11.3| 3.95| 8.25| 1.56| 5.42| 2.93| 3.20|
|         | 32        | 0.62  | 3.15| 1.79| 1.74| 15.0| 3.63| 7.48| 1.50| 4.60| 3.10| 2.86|
|         | 33        | 0.76  | 3.42| 2.15| 1.84| 12.1| 3.00| 7.69| 1.54| 4.17| 3.88| 3.47|
|         | 34        | 1.35  | 3.83| 2.13| 2.75| 13.5| 4.65| 8.90| 1.37| 6.10| 2.83| 3.36|
|         | 35        | 1.00  | 4.28| 2.30| 2.94| 13.5| 4.06| 8.23| 1.97| 5.21| 3.25| 3.55|
|         | 36        | 1.23  | 4.37| 2.58| 3.13| 12.9| 4.44| 8.98| 1.71| 5.18| 3.51| 3.32|
| 4       | 37        | 1.25  | 4.50| 2.26| 2.42| 13.6| 3.55| 8.23| 1.66| 6.16| 3.10| 3.20|
|         | 38        | 1.02  | 4.19| 2.64| 2.79| 12.4| 4.10| 6.13| 1.51| 6.29| 3.31| 3.02|
|         | 39        | 0.94  | 3.93| 2.20| 2.84| 14.4| 3.71| 8.40| 1.50| 4.84| 3.64| 3.49|
|         | 40        | 0.94  | 3.78| 2.39| 2.53| 14.6| 3.66| 9.10| 1.50| 5.44| 3.87| 2.94|
|         | 41        | 0.90  | 3.97| 2.05| 2.27| 15.7| 4.43| 8.78| 1.71| 6.33| 3.71| 3.47|
|         | 42        | 1.04  | 4.28| 2.02| 2.48| 15.0| 4.25| 8.41| 1.48| 5.36| 3.58| 2.59|
|         | 43        | 0.90  | 4.32| 2.51| 2.55| 13.1| 4.62| 8.32| 1.32| 6.61| 3.87| 3.04|
|         | 44        | 0.90  | 4.44| 2.60| 2.75| 15.9| 4.37| 8.70| 1.29| 6.25| 3.64| 3.11|
|         | 45        | 1.05  | 4.99| 2.29| 2.46| 15.3| 4.89| 8.72| 1.73| 6.65| 3.61| 3.00|
|         | 46        | 1.21  | 4.39| 2.58| 2.22| 15.2| 4.45| 9.43| 1.81| 6.51| 3.61| 4.11|
|         | 47        | 1.05  | 4.13| 2.23| 2.68| 13.8| 4.04| 8.51| 1.39| 6.01| 3.39| 3.47|
|         | 48        | 0.82  | 4.59| 1.99| 2.10| 12.9| 3.31| 8.30| 1.14| 5.53| 3.91| 3.65|
|         | 49        | 1.08  | 3.72| 2.20| 1.92| 10.8| 4.51| 8.34| 1.67| 5.18| 3.94| 2.75|
|         | 50        | 1.02  | 4.32| 2.53| 2.49| 14.0| 4.40| 9.16| 1.76| 5.02| 3.58| 3.08|
|         | 51        | 0.99  | 4.93| 2.23| 2.86| 15.2| 4.83| 8.66| 1.49| 5.42| 3.77| 3.37|
|         | 52        | 0.90  | 4.14| 2.54| 2.34| 13.9| 4.98| 8.34| 1.50| 5.85| 3.28| 3.73|
|         | 53        | 1.16  | 4.38| 2.39| 3.10| 12.0| 5.12| 5.92| 1.33| 6.38| 3.67| 3.17|
|         | 54        | 1.07  | 4.46| 2.65| 2.29| 12.9| 4.34| 6.44| 1.50| 5.97| 3.84| 2.77|
|         | 55        | 1.11  | 4.74| 2.16| 2.74| 14.6| 4.88| 8.86| 1.48| 6.37| 3.70| 3.33|
|         | 56        | 1.22  | 4.99| 2.39| 2.25| 13.3| 3.71| 8.70| 1.69| 4.95| 3.47| 3.00|
Table S2. Values from the seven common phthalates measured in CHEAR QC pools A and B from 5 CHEAR studies. Batch numbers are provided per study and overall. All values are reported in ng/mL.

| Study # | Run order | MBZP | MECPP | MEHHP | MEOHP | MEP | MIBP | MNBP | MBZP | MECPP | MEHHP | MEOHP | MEP | MIBP | MNBP |
|---------|-----------|------|-------|-------|-------|-----|------|------|------|-------|-------|-------|-----|------|------|
| 4       | 57        | 0.81 | 3.32  | 2.10  | 2.29  | 14.1| 4.13 | 8.64 | 1.45 | 5.97  | 3.35  | 3.22  | 14.0| 5.53 | 8.99 |
|         | 58        | 1.01 | 3.99  | 2.60  | 2.58  | 11.5| 4.25 | 7.25 | 1.46 | 5.85  | 3.23  | 2.98  | 14.8| 5.56 | 9.05 |
|         | 59        | 0.73 | 4.38  | 2.36  | 2.13  | 12.0| 4.77 | 7.90 | 1.45 | 6.45  | 3.35  | 2.42  | 12.4| 5.80 | 9.69 |
|         | 60        | 1.04 | 3.44  | 2.75  | 2.28  | 13.9| 4.49 | 8.38 | 1.24 | 6.25  | 3.67  | 2.79  | 13.4| 4.46 | 8.67 |
|         | 61        | 1.09 | 4.16  | 2.34  | 2.61  | 14.1| 3.32 | 9.03 | 1.56 | 6.47  | 3.16  | 3.26  | 15.0| 3.97 | 9.46 |
|         | 62        | 0.87 | 4.42  | 2.03  | 2.14  | 13.8| 4.05 | 8.33 | 1.37 | 6.27  | 3.74  | 3.36  | 15.8| 3.92 | 9.33 |
|         | 63        | 1.06 | 4.84  | 1.94  | 2.48  | 13.5| 4.54 | 7.69 | 1.84 | 5.96  | 3.16  | 3.16  | 15.2| 4.34 | 9.70 |
|         | 64        | 1.10 | 4.79  | 2.74  | 3.09  | 12.8| 4.46 | 7.67 | 1.42 | 5.77  | 3.16  | 2.91  | 14.3| 4.61 | 7.39 |
|         | 65        | 1.00 | 4.16  | 2.12  | 2.38  | 15.0| 4.30 | 8.15 | 1.54 | 5.89  | 3.32  | 3.46  | 14.8| 4.60 | 8.00 |
|         | 66        | 1.07 | 4.07  | 2.69  | 2.31  | 13.5| 4.12 | 8.66 | 1.80 | 6.45  | 3.41  | 3.34  | 13.5| 5.62 | 7.84 |
|         | 67        | 1.09 | 4.08  | 1.98  | 3.08  | 14.3| 4.23 | 9.10 | 1.31 | 5.00  | 3.76  | 2.96  | 13.8| 4.99 | 9.66 |
|         | 68        | 0.98 | 4.22  | 2.62  | 2.21  | 14.0| 5.06 | 8.42 | 1.63 | 5.90  | 3.24  | 3.46  | 14.8| 5.76 | 7.42 |
|         | 69        | 1.08 | 4.09  | 2.70  | 1.77  | 15.0| 4.27 | 7.89 | 1.63 | 5.54  | 3.65  | 3.28  | 14.8| 5.33 | 9.72 |
| 5       | 70        | 1.01 | 3.12  | 4.13  | 1.65  | 22.0| 4.35 | 8.91 | 1.44 | 3.80  | 7.00  | 2.12  | 23.2| 3.94 | 9.28 |
|         | 71        | 1.00 | 2.99  | 4.00  | 1.54  | 21.8| 5.06 | 9.48 | 0.99 | 3.63  | 7.52  | 2.15  | 22.5| 4.25 | 9.78 |
|         | 72        | 1.04 | 3.08  | 4.25  | 1.81  | 22.0| 4.37 | 9.08 | 1.22 | 3.94  | 7.36  | 2.15  | 23.0| 5.95 | 9.78 |
|         | 73        | 0.97 | 2.54  | 2.77  | 1.38  | 21.7| 4.05 | 9.38 | 1.22 | 2.67  | 4.66  | 1.69  | 23.0| 6.99 | 9.18 |
|         | 74        | 1.09 | 2.61  | 3.20  | 1.42  | 21.9| 3.67 | 10.30| 1.43 | 2.79  | 4.50  | 1.59  | 23.0| 4.45 | 8.58 |
|         | 75        | 0.86 | 2.63  | 2.78  | 1.40  | 22.0| 5.20 | 10.30| 1.36 | 2.68  | 4.67  | 1.67  | 22.7| 6.68 | 9.18 |
|         | 76        | 0.77 | 1.17  | 4.67  | 2.44  | 21.6| 4.88 | 10.50| 1.35 | 1.11  | 6.35  | 2.38  | 22.5| 4.04 | 9.16 |
|         | 77        | 0.89 | 1.26  | 4.96  | 2.08  | 21.8| 4.48 | 9.67 | 1.52 | 1.23  | 6.57  | 2.65  | 22.7| 3.96 | 9.17 |
|         | 78        | 0.89 | 0.90  | 4.52  | 2.00  | 21.6| 4.05 | 9.27 | 1.64 | 1.37  | 7.18  | 2.63  | 23.1| 4.75 | 9.57 |
|         | 79        | 0.63 | 1.66  | 4.38  | 1.44  | 21.6| 4.01 | 9.39 | 1.48 | 2.02  | 6.68  | 2.26  | 22.6| 5.75 | 9.69 |
|         | 80        | 0.79 | 1.91  | 4.87  | 1.56  | 21.7| 5.17 | 9.39 | 0.66 | 2.18  | 8.63  | 2.28  | 22.6| 5.24 | 9.49 |
|         | 81        | 0.98 | 1.62  | 3.95  | 1.49  | 22.1| 5.42 | 8.39 | 1.06 | 2.35  | 8.84  | 1.76  | 22.5| 5.51 | 9.99 |
|         | 82        | 1.40 | 3.17  | 4.64  | 1.77  | 21.5| 3.72 | 10.10| 1.10 | 3.82  | 6.28  | 2.74  | 23.4| 5.71 | 10.30|
|         | 83        | 1.18 | 3.12  | 4.68  | 1.48  | 21.9| 3.71 | 9.32 | 1.33 | 3.68  | 6.38  | 2.07  | 23.3| 5.52 | 9.52 |
|         | 84        | 1.28 | 3.05  | 4.13  | 1.62  | 22.4| 4.73 | 10.10| 1.11 | 3.77  | 6.38  | 2.68  | 23.0| 5.34 | 10.00|
Table S2. Values from the seven common phthalates measured in CHEAR QC pools A and B from 5 CHEAR studies. Batch numbers are provided per study and overall. All values are reported in ng/mL.

| Study # | Run order | Pool | MBZP | MECPP | MEHHP | MEOHP | MEP | MIBP | MNBP | MBZP | MECPP | MEHHP | MEOHP | MEP | MIBP | MNBP |
|---------|-----------|------|------|-------|-------|-------|-----|------|------|------|-------|-------|-------|-----|------|------|
| 5       | 85        | A    | 0.61 | 2.90  | 3.63  | 1.24  | 21.9| 3.93 | 9.83 | 0.52 | 3.53  | 5.23  | 2.03  | 23.0| 5.20 | 11.10|
|         | 86        | A    | 1.02 | 2.87  | 3.54  | 1.77  | 21.8| 3.60 | 9.53 | 0.99 | 3.51  | 5.01  | 1.79  | 23.0| 5.18 | 10.20|
|         | 87        | A    | 1.32 | 2.90  | 3.51  | 1.31  | 21.8| 4.60 | 11.10| 1.33 | 3.48  | 5.73  | 2.14  | 22.9| 5.82 | 10.90|
|         | 88        | A    | 1.15 | 3.19  | 3.77  | 2.04  | 21.7| 4.39 | 9.92 | 1.43 | 3.41  | 4.61  | 2.03  | 22.7| 4.44 | 10.50|
|         | 89        | A    | 1.33 | 2.93  | 3.30  | 1.90  | 21.6| 3.94 | 9.72 | 1.05 | 3.28  | 5.11  | 1.99  | 22.8| 4.90 | 10.10|
|         | 90        | A    | 1.32 | 2.92  | 2.99  | 1.74  | 21.5| 4.57 | 10.10| 1.61 | 3.67  | 5.37  | 2.26  | 22.8| 4.08 | 10.20|