# APPENDIX B-3

## INITIAL THREE-POINT CALIBRATION DATA

# HP Labs

INITIAL CALIBRATION (3-POINT)

WINNEBAGO 1
SUPPLY SOURCE: ACCUSTANDARD LOT# A7120160
INSTRUMENT: SHIMADZU GC14A FRONT

| | | | LOW STANDARD | | | | MID STANDARD | | | | HIGH STANDARD | | | | SUMMARY | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COMPOUND | DETECTOR | CAL DATE | RT | MASS | AREA | CF | RT | MASS | AREA | CF | RT | MASS | AREA | CF | AVE RT | AVE CF | SD | %RSD |
| CARBON TETRACHLORIDE | HALL | 12/6/00 | 10.5 | 1.0 | 215 | 215 | 10.5 | 20.0 | 5139 | 257 | 10.5 | 200 | 53294 | 266 | 10.5 | 246 | 27.4 | 11.1% |
| CHLOROETHANE/BROMOMETHANE | HALL | 9/13/00 | 4.9 | 4.0 | 501 | 125 | 4.9 | 40.0 | 4968 | 124 | 4.8 | 400 | 62588 | 156 | 4.9 | 135 | 18.3 | 13.6% |
| CHLOROFORM | HALL | 12/6/00 | 9.2 | 1.0 | 470 | 470 | 9.2 | 20.0 | 8383 | 419 | 9.2 | 200 | 72503 | 363 | 9.2 | 417 | 53.8 | 12.9% |
| 1,1-DICHLORO ETHANE | HALL | 12/6/00 | 7.9 | 1.0 | 367 | 367 | 7.9 | 20.0 | 5939 | 297 | 7.9 | 200 | 59740 | 299 | 7.9 | 321 | 39.9 | 12.4% |
| 1,2-DICHLORO ETHANE | HALL | 12/6/00 | 10.6 | 1.0 | 416 | 416 | 10.6 | 20.0 | 8794 | 440 | 10.6 | 200 | 69283 | 346 | 10.6 | 401 | 48.5 | 12.1% |
| 1,1-DICHLORO ETHENE | PID | 12/6/00 | 6.1 | 1.0 | 6.2 | 6.2 | 6.1 | 20.0 | 126 | 6.3 | 6.1 | 200 | 1188 | 5.9 | 6.1 | 6.2 | 0.2 | 3.1% |
| CIS-1,2-DICHLORO ETHENE | PID | 12/6/00 | 8.8 | 1.0 | 8.9 | 8.9 | 8.8 | 20.0 | 175 | 8.8 | 8.8 | 200 | 1694 | 8.5 | 8.8 | 8.7 | 0.2 | 2.6% |
| TRANS-1,2-DICHLORO ETHENE | PID | 12/6/00 | 7.2 | 1.0 | 14.4 | 14.4 | 7.2 | 20.0 | 308 | 15.4 | 7.2 | 200 | 2978 | 14.9 | 7.2 | 14.9 | 0.5 | 3.4% |
| DICHLOROMETHANE | HALL | 12/6/00 | 6.8 | 1.0 | 261 | 261 | 6.8 | 20.0 | 6198 | 310 | 6.8 | 200 | 60185 | 301 | 6.8 | 291 | 26.0 | 9.0% |
| TETRACHLORO ETHENE | PID | 12/6/00 | 16.1 | 1.0 | 9.4 | 9.4 | 16.1 | 20.0 | 189 | 9.5 | 16.1 | 200 | 1844 | 9.2 | 16.1 | 9.4 | 0.1 | 1.3% |
| 1,1,1,2-TETRACHLORO ETHANE/CHLOROBENZENE | HALL | 12/6/00 | 18.2 | 2.0 | 403 | 202 | 18.2 | 40.0 | 10040 | 251 | 18.2 | 400 | 82445 | 206 | 18.2 | 220 | 27.3 | 12.5% |
| 1,1,2,2-TETRACHLORO ETHANE | HALL | 12/6/00 | 21.0 | 1.0 | 244 | 244 | 21.0 | 20.0 | 5892 | 295 | 21.0 | 200 | 59287 | 296 | 21.0 | 278 | 29.8 | 10.7% |
| 1,1,1-TRICHLORO ETHANE | HALL | 12/6/00 | 10.0 | 1.0 | 267 | 267 | 10.0 | 20.0 | 6289 | 314 | 10.0 | 200 | 63133 | 316 | 10.0 | 299 | 27.8 | 9.3% |
| 1,1,2-TRICHLORO ETHANE | HALL | 12/6/00 | 15.3 | 1.0 | 232 | 232 | 15.3 | 20.0 | 5941 | 297 | 15.3 | 200 | 58701 | 294 | 15.3 | 274 | 36.6 | 13.3% |
| TRICHLORO ETHENE | PID | 12/6/00 | 11.8 | 1.0 | 11.6 | 11.6 | 11.8 | 20.0 | 218 | 10.9 | 11.8 | 150 | 2122 | 14.1 | 11.8 | 12.2 | 1.7 | 14.0% |
| VINYL CHLORIDE | HALL | 9/13/00 | 4.1 | 2.0 | 451 | 226 | 4.1 | 20.0 | 4441 | 222 | 4.1 | 200 | 45182 | 226 | 4.1 | 225 | 2.1 | 0.9% |
| TRICHLOROFLUOROMETHANE (FR11) | HALL | 9/13/00 | 5.3 | 2.0 | 773 | 387 | 5.3 | 20.0 | 6320 | 316 | 5.3 | 200 | 64340 | 322 | 5.3 | 341 | 39.2 | 11.5% |
| DICHLORODIFLUOROMETHANE (FR12) | HALL | 9/13/00 | 3.7 | 2.0 | 82.9 | 41.5 | 3.6 | 20.0 | 819 | 41.0 | 3.6 | 200 | 10692 | 53.5 | 3.6 | 45.3 | 7.1 | 15.6% |
| 1,1,2-TRICHLOROTRIFLUOROETHANE (FR113) | HALL | 12/6/00 | 5.9 | 1.0 | 123 | 123 | 5.9 | 20.0 | 2552 | 128 | 5.9 | 200 | 28687 | 143 | 5.9 | 131 | 10.7 | 8.2% |
| BENZENE | PID | 12/6/00 | 10.6 | 1.0 | 19.4 | 19.4 | 10.6 | 20.0 | 395 | 19.8 | 10.6 | 200 | 3850 | 19.3 | 10.6 | 19.5 | 0.3 | 1.3% |
| ETHYLBENZENE | PID | 12/6/00 | 18.1 | 1.0 | 18.8 | 18.8 | 18.1 | 20.0 | 411 | 20.6 | 18.1 | 200 | 4261 | 21.3 | 18.1 | 20.2 | 1.3 | 6.4% |
| TOLUENE | PID | 12/6/00 | 14.5 | 1.0 | 19.0 | 19.0 | 14.5 | 20.0 | 396 | 19.8 | 14.5 | 200 | 3925 | 19.6 | 14.5 | 19.5 | 0.4 | 2.2% |
| m&p-XYLENES | PID | 12/6/00 | 18.3 | 2.0 | 41.6 | 20.8 | 18.3 | 40.0 | 957 | 23.9 | 18.3 | 400 | 8859 | 22.1 | 18.3 | 22.3 | 1.6 | 7.0% |
| o-XYLENE | PID | 12/6/00 | 19.5 | 1.0 | 18.8 | 18.8 | 19.5 | 20.0 | 402 | 20.1 | 19.5 | 200 | 3969 | 19.8 | 19.5 | 19.6 | 0.7 | 3.5% |
| 1,4 DIFLUORO BENZENE | PID | 12/6/00 | 11.1 | 1.0 | 8.8 | 8.8 | 11.1 | 20.0 | 157 | 7.9 | 11.1 | 200 | 1538 | 7.7 | 11.1 | 8.1 | 0.6 | 7.1% |
| CHLOROBENZENE | PID | 12/6/00 | 18.0 | 1.0 | 18.9 | 18.9 | 18.0 | 20.0 | 410 | 20.5 | 18.0 | 200 | 3993 | 20.0 | 18.0 | 19.8 | 0.8 | 4.1% |
| 4 BROMOFLUORO BENZENE | PID | 12/6/00 | 21.3 | 1.0 | 33.2 | 33.2 | 21.3 | 20.0 | 648 | 32.4 | 21.3 | 200 | 6788 | 33.9 | 21.3 | 33.2 | 0.8 | 2.3% |

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)
ANALYSES PERFORMED BY: ALLEN GLOVER
DATA REVIEWED BY: JAMES E. PICKER

# HP Labs

SOIL GAS INITIAL LCS STANDARD REPORT (3-POINT CALIBRATION VERIFICATION)

LAB: WINN 1
SUPPLY SOURCE: ACCUSTANDARD LOT# A9050254
INSTRUMENT: SHIMADZU GC14A FRONT

| COMPOUND | DETECTOR | CAL DATE | AVE CF | MASS | RT | AREA | CF | %DIFF |
|---|---|---|---|---|---|---|---|---|
| CARBON TETRACHLORIDE | HALL | 12/6/00 | 246 | 20 | 10.5 | 5,234 | 262 | 6.3% |
| CHLOROFORM | HALL | 12/6/00 | 417 | 20 | 9.2 | 8,759 | 438 | 5.0% |
| 1,1-DICHLORO ETHANE | HALL | 12/6/00 | 321 | 20 | 8.0 | 6,145 | 307 | 4.3% |
| 1,2-DICHLORO ETHANE | HALL | 12/6/00 | 401 | 20 | 10.6 | 9,092 | 455 | 13.5% |
| 1,1-DICHLORO ETHENE | PID | 12/6/00 | 6.20 | 20 | 6.1 | 127 | 6.35 | 2.4% |
| CIS-1,2-DICHLORO ETHENE | PID | 12/6/00 | 8.7 | 20 | 8.9 | 174 | 8.7 | 0.0% |
| TRANS-1,2-DICHLORO ETHENE | PID | 12/6/00 | 14.9 | 20 | 7.2 | 306 | 15.3 | 2.7% |
| DICHLOROMETHANE | HALL | 12/6/00 | 291 | 20 | 6.8 | 6,048 | 302 | 4.1% |
| TETRACHLORO ETHENE | PID | 12/6/00 | 9.4 | 20 | 16.1 | 192 | 9.6 | 2.1% |
| 1,1,1,2-TETRACHLORO ETHANE/CHLOROBENZENE | HALL | 12/6/00 | 220 | 40 | 18.2 | 9,911 | 248 | 12.9% |
| 1,1,2,2-TETRACHLORO ETHANE | HALL | 12/6/00 | 278 | 20 | 21.1 | 6,007 | 300 | 7.9% |
| 1,1,1-TRICHLORO ETHANE | HALL | 12/6/00 | 299 | 20 | 10.0 | 6,414 | 321 | 7.3% |
| 1,1,2-TRICHLORO ETHANE | HALL | 12/6/00 | 274 | 20 | 15.3 | 6,103 | 305 | 11.3% |
| TRICHLORO ETHENE | PID | 12/6/00 | 12.2 | 20 | 11.8 | 217 | 10.9 | 11.1% |
| 1,1,2-TRICHLOROTRIFLUOROETHANE (FR113) | HALL | 12/6/00 | 131.3 | 20 | 5.9 | 2,438 | 122 | 7.2% |
| BENZENE | PID | 12/6/00 | 19.5 | 20 | 10.7 | 394 | 19.7 | 1.0% |
| ETHYLBENZENE | PID | 12/6/00 | 20.2 | 20 | 18.1 | 442 | 22.1 | 9.4% |
| TOLUENE | PID | 12/6/00 | 19.5 | 20 | 14.5 | 395 | 19.8 | 1.3% |
| m&p-XYLENES | PID | 12/6/00 | 22.3 | 40 | 18.3 | 989 | 24.7 | 10.9% |
| o-XYLENE | PID | 12/6/00 | 19.6 | 20 | 19.5 | 401 | 20.1 | 2.3% |
| 1,4 DIFLUORO BENZENE | PID | 12/6/00 | 8.1 | 20 | 11.1 | 155 | 7.8 | 4.3% |
| CHLOROBENZENE | PID | 12/6/00 | 19.8 | 20 | 18.0 | 389 | 19.5 | 1.8% |
| 4 BROMOFLUORO BENZENE | PID | 12/6/00 | 33.2 | 20 | 21.3 | 665 | 33.3 | 0.2% |

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)
ANALYSES PERFORMED BY: ALLEN GLOVER
DATA REVIEWED BY: JAMES E. PICKER

# APPENDIX B-4

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## DAILY OPENING, CLOSING, AND CONTINUING CALIBRATION VERIFICATION REPORTS

# HP Labs

QA/QC - CALIBRATION DATA

DATE: 12/18/00
HP Labs Project #2K1218W1
WINNEBAGO 1

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT # A7120160
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT # A9050254
INSTRUMENT: SHIMADZU GC14A FRONT

| | | | OPENING STANDARD | | | | | CLOSING STANDARD | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COMPOUND | DETECTOR | AVE RF | MASS | RT | AREA | CF | %DIFF | MASS | RT | AREA | CF | %DIFF |
| CARBON TETRACHLORIDE | HALL | 246 | 20 | 10.2 | 5,338 | 267 | 8.5% | 20 | 10.1 | 4,220 | 211 | 14.3% |
| 1,1-DICHLORO ETHANE | HALL | 321 | 20 | 7.7 | 6,045 | 302 | 5.8% | 20 | 7.7 | 5,249 | 262 | 18.2% |
| 1,2-DICHLORO ETHANE | HALL | 401 | 20 | 10.3 | 8,895 | 445 | 11.0% | 20 | 10.3 | 6,912 | 346 | 13.8% |
| 1,1-DICHLORO ETHENE | PID | 6.20 | 20 | 5.8 | 109 | 5.5 | 12.1% | 20 | 5.8 | 102 | 5.1 | 17.7% |
| CIS-1,2-DICHLORO ETHENE | PID | 8.7 | 20 | 8.5 | 164 | 8.2 | 5.7% | 20 | 8.5 | 143 | 7.2 | 17.8% |
| TRANS-1,2-DICHLORO ETHENE | PID | 14.9 | 20 | 6.9 | 283 | 14.2 | 5.0% | 20 | 6.9 | 247 | 12.4 | 17.1% |
| TETRACHLORO ETHENE | PID | 9.4 | 20 | 15.7 | 184 | 9.2 | 2.1% | 20 | 15.7 | 161 | 8.1 | 14.4% |
| 1,1,1-TRICHLORO ETHANE | HALL | 299 | 20 | 9.7 | 6,389 | 319 | 6.8% | 20 | 9.6 | 5,330 | 267 | 10.9% |
| 1,1,2-TRICHLORO ETHANE | HALL | 274 | 20 | 14.9 | 6,054 | 303 | 10.4% | 20 | 14.9 | 4,875 | 244 | 11.1% |
| TRICHLORO ETHENE | PID | 12.2 | 20 | 11.5 | 215 | 10.8 | 11.9% | 20 | 11.5 | 197 | 9.9 | 19.3% |
| 1,1,2-TRICHLOROTRIFLUOROETHANE (FR113) | HALL | 131.3 | 20 | 5.6 | 2,347 | 117 | 10.6% | 20 | 5.7 | 2,167 | 108 | 17.5% |
| BENZENE | PID | 19.5 | 20 | 10.3 | 372 | 18.6 | 4.6% | 20 | 10.3 | 331 | 16.6 | 15.1% |
| ETHYLBENZENE | PID | 20.2 | 20 | 17.6 | 412 | 20.6 | 2.0% | 20 | 17.7 | 342 | 17.1 | 15.3% |
| TOLUENE | PID | 19.5 | 20 | 14.2 | 377 | 18.9 | 3.3% | 20 | 14.1 | 333 | 16.7 | 14.6% |
| m&p-XYLENES | PID | 22.3 | 40 | 18.0 | 941 | 23.5 | 5.5% | 40 | 17.9 | 813 | 20.3 | 8.9% |
| o-XYLENE | PID | 19.6 | 20 | 19.1 | 382 | 19.1 | 2.6% | 20 | 19.1 | 336 | 16.8 | 14.3% |
| 1,4 DIFLUORO BENZENE | PID | 8.1 | 20 | 10.7 | 148 | 7.4 | 8.6% | 20 | 10.7 | 134 | 6.7 | 17.3% |
| CHLOROBENZENE | PID | 19.8 | 20 | 17.7 | 380 | 19.0 | 4.0% | 20 | 17.6 | 361 | 18.1 | 8.8% |
| 4 BROMOFLUORO BENZENE | PID | 33.2 | 20 | 20.9 | 629 | 31.5 | 5.3% | 20 | 20.8 | 554 | 27.7 | 16.6% |

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)
ANALYSES PERFORMED BY: ALLEN GLOVER
DATA REVIEWED BY: JAMES E. PICKER

# HP Labs

QA/QC - CALIBRATION DATA

DATE: 12/19/00
HP Labs Project #2K1219W1
WINNEBAGO 1

SUPPLY SOURCE: (CALIBRATION VERIFICATION)
ACCUSTANDARD LOT # A9050254
INSTRUMENT: SHIMADZU GC14A FRONT

| | | | CONTINUING STANDARD | | | | |
|---|---|---|---|---|---|---|---|
| COMPOUND | DETECTOR | AVE RF | MASS | RT | AREA | CF | %DIFF |
| CARBON TETRACHLORIDE | HALL | 246 | 20 | 10.2 | 5,350 | 268 | 8.7% |
| 1,1-DICHLORO ETHANE | HALL | 321 | 20 | 7.7 | 6,104 | 305 | 4.9% |
| 1,2-DICHLORO ETHANE | HALL | 401 | 20 | 10.4 | 8,281 | 414 | 3.3% |
| 1,1-DICHLORO ETHENE | PID | 6.20 | 20 | 5.9 | 107 | 5.4 | 13.7% |
| CIS-1,2-DICHLORO ETHENE | PID | 8.7 | 20 | 8.6 | 165 | 8.3 | 5.2% |
| TRANS-1,2-DICHLORO ETHENE | PID | 14.9 | 20 | 7.0 | 280 | 14.0 | 6.0% |
| TETRACHLORO ETHENE | PID | 9.4 | 20 | 15.8 | 184 | 9.2 | 2.1% |
| 1,1,1-TRICHLORO ETHANE | HALL | 299 | 20 | 9.7 | 6,441 | 322 | 7.7% |
| 1,1,2-TRICHLORO ETHANE | HALL | 274 | 20 | 15.0 | 5,755 | 288 | 4.9% |
| TRICHLORO ETHENE | PID | 12.2 | 20 | 11.6 | 209 | 10.5 | 14.3% |
| 1,1,2-TRICHLOROTRIFLUOROETHANE (FR113) | HALL | 131.3 | 20 | 5.7 | 2,458 | 123 | 6.4% |
| BENZENE | PID | 19.5 | 20 | 10.4 | 375 | 18.8 | 3.8% |
| ETHYLBENZENE | PID | 20.2 | 20 | 17.9 | 404 | 20.2 | 0.0% |
| TOLUENE | PID | 19.5 | 20 | 14.3 | 385 | 19.3 | 1.3% |
| m&p-XYLENES | PID | 22.3 | 40 | 18.1 | 951 | 23.8 | 6.6% |
| o-XYLENE | PID | 19.6 | 20 | 19.2 | 384 | 19.2 | 2.0% |
| 1,4 DIFLUORO BENZENE | PID | 8.1 | 20 | 10.8 | 151 | 7.6 | 6.8% |
| CHLOROBENZENE | PID | 19.8 | 20 | 17.8 | 406 | 20.3 | 2.5% |
| 4 BROMOFLUORO BENZENE | PID | 33.2 | 20 | 21.0 | 645 | 32.3 | 2.9% |

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)
ANALYSES PERFORMED BY: ALLEN GLOVER
DATA REVIEWED BY: JAMES E. PICKER

# HP Labs

QA/QC - CALIBRATION DATA

DATE: 12/19/00
HP Labs Project #2K1219W1
WINNEBAGO 1

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT # A7120160
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT # A9050254
INSTRUMENT: SHIMADZU GC14A FRONT

| | | | OPENING STANDARD | | | | | CLOSING STANDARD | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COMPOUND | DETECTOR | AVE RF | MASS | RT | AREA | CF | %DIFF | MASS | RT | AREA | CF | %DIFF |
| CARBON TETRACHLORIDE | HALL | 246 | 20 | 10.2 | 5,385 | 269 | 9.4% | 20 | 10.2 | 5,162 | 258 | 4.9% |
| 1,1-DICHLORO ETHANE | HALL | 321 | 20 | 7.7 | 5,658 | 283 | 11.8% | 20 | 7.7 | 6,018 | 301 | 6.2% |
| 1,2-DICHLORO ETHANE | HALL | 401 | 20 | 10.3 | 8,513 | 426 | 6.2% | 20 | 10.4 | 9,090 | 455 | 13.4% |
| 1,1-DICHLORO ETHENE | PID | 6.2 | 20 | 5.8 | 110 | 5.5 | 11.3% | 20 | 5.8 | 110 | 5.5 | 11.3% |
| CIS-1,2-DICHLORO ETHENE | PID | 8.7 | 20 | 8.5 | 166 | 8.3 | 4.6% | 20 | 8.6 | 167 | 8.4 | 4.0% |
| TRANS-1,2-DICHLORO ETHENE | PID | 14.9 | 20 | 6.9 | 271 | 13.6 | 9.1% | 20 | 7.0 | 289 | 14.5 | 3.0% |
| TETRACHLORO ETHENE | PID | 9.4 | 20 | 15.7 | 177 | 8.9 | 5.9% | 20 | 15.8 | 184 | 9.2 | 2.1% |
| 1,1,1-TRICHLORO ETHANE | HALL | 299 | 20 | 9.7 | 6,157 | 308 | 3.0% | 20 | 9.7 | 6,520 | 326 | 9.0% |
| 1,1,2-TRICHLORO ETHANE | HALL | 274 | 20 | 15.0 | 5,349 | 267 | 2.5% | 20 | 15.0 | 6,472 | 324 | 18.0% |
| TRICHLORO ETHENE | PID | 12.2 | 20 | 11.5 | 214 | 10.7 | 12.3% | 20 | 11.6 | 211 | 10.6 | 13.5% |
| 1,1,2-TRICHLOROTRIFLUOROETHANE (FR113) | HALL | 131 | 20 | 5.6 | 2,269 | 113 | 13.6% | 20 | 5.7 | 2,339 | 117 | 10.9% |
| BENZENE | PID | 19.5 | 20 | 10.3 | 374 | 18.7 | 4.1% | 20 | 10.4 | 381 | 19.1 | 2.3% |
| ETHYLBENZENE | PID | 20.2 | 20 | 17.8 | 410 | 20.5 | 1.5% | 20 | 17.9 | 412 | 20.6 | 2.0% |
| TOLUENE | PID | 19.5 | 20 | 14.2 | 375 | 18.8 | 3.8% | 20 | 14.2 | 387 | 19.4 | 0.8% |
| m&p-XYLENES | PID | 22.3 | 40 | 18.0 | 913 | 22.8 | 2.4% | 40 | 18.1 | 949 | 23.7 | 6.4% |
| o-XYLENE | PID | 19.6 | 20 | 19.2 | 368 | 18.4 | 6.1% | 20 | 19.2 | 385 | 19.3 | 1.8% |
| 1,4 DIFLUORO BENZENE | PID | 8.1 | 20 | 10.8 | 149 | 7.5 | 8.0% | 20 | 10.8 | 152 | 7.6 | 6.2% |
| CHLOROBENZENE | PID | 19.8 | 20 | 17.7 | 360 | 18.0 | 9.1% | 20 | 17.8 | 401 | 20.1 | 1.3% |
| 4 BROMOFLUORO BENZENE | PID | 33.2 | 20 | 20.9 | 616 | 30.8 | 7.2% | 20 | 21.0 | 647 | 32.4 | 2.6% |

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)
ANALYSES PERFORMED BY: ALLEN GLOVER
DATA REVIEWED BY: JAMES E. PICKER

# HP Labs

QA/QC - CALIBRATION DATA

DATE: 12/20/00
HP Labs Project #2K1220W1
WINNEBAGO 1

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT # A7120160
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT # A9050254
INSTRUMENT: SHIMADZU GC14A FRONT

| | | | OPENING STANDARD | | | | | CLOSING STANDARD | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COMPOUND | DETECTOR | AVE RF | MASS | RT | AREA | CF | %DIFF | MASS | RT | AREA | CF | %DIFF |
| CARBON TETRACHLORIDE | HALL | 246 | 20 | 10.2 | 5,514 | 276 | 12.0% | 20 | 10.2 | 4,363 | 218 | 11.4% |
| 1,1-DICHLORO ETHANE | HALL | 321 | 20 | 7.7 | 5,819 | 291 | 9.3% | 20 | 7.7 | 5,202 | 260 | 18.9% |
| 1,2-DICHLORO ETHANE | HALL | 401 | 20 | 10.3 | 9,089 | 454 | 13.4% | 20 | 10.4 | 6,436 | 322 | 19.7% |
| 1,1-DICHLORO ETHENE | PID | 6.2 | 20 | 5.8 | 114 | 5.7 | 8.1% | 20 | 5.8 | 112 | 5.6 | 9.7% |
| CIS-1,2-DICHLORO ETHENE | PID | 8.7 | 20 | 8.6 | 184 | 9.2 | 5.7% | 20 | 8.6 | 165 | 8.3 | 5.2% |
| TRANS-1,2-DICHLORO ETHENE | PID | 14.9 | 20 | 6.9 | 313 | 15.7 | 5.0% | 20 | 7.0 | 279 | 14.0 | 6.4% |
| TETRACHLORO ETHENE | PID | 9.4 | 20 | 15.8 | 205 | 10.3 | 9.0% | 20 | 15.8 | 183 | 9.2 | 2.7% |
| 1,1,1-TRICHLORO ETHANE | HALL | 299 | 20 | 9.7 | 6,612 | 331 | 10.6% | 20 | 9.7 | 5,195 | 260 | 13.1% |
| 1,1,2-TRICHLORO ETHANE | HALL | 274 | 20 | 15.0 | 6,183 | 309 | 12.7% | 20 | 15.0 | 4,743 | 237 | 13.5% |
| TRICHLORO ETHENE | PID | 12.2 | 20 | 11.5 | 233 | 11.7 | 4.5% | 20 | 11.5 | 210 | 10.5 | 13.9% |
| 1,1,2-TRICHLOROTRIFLUOROETHANE (FR113) | HALL | 131 | 20 | 5.6 | 2,294 | 115 | 12.6% | 20 | 5.7 | 2,116 | 106 | 19.4% |
| BENZENE | PID | 19.5 | 20 | 10.3 | 417 | 20.9 | 6.9% | 20 | 10.4 | 375 | 18.8 | 3.8% |
| ETHYLBENZENE | PID | 20.2 | 20 | 17.8 | 454 | 22.7 | 12.4% | 20 | 17.8 | 424 | 21.2 | 5.0% |
| TOLUENE | PID | 19.5 | 20 | 14.2 | 425 | 21.3 | 9.0% | 20 | 14.2 | 384 | 19.2 | 1.5% |
| m&p-XYLENES | PID | 22.3 | 40 | 18.0 | 1,022 | 25.6 | 14.6% | 40 | 18.0 | 954 | 23.9 | 7.0% |
| o-XYLENE | PID | 19.6 | 20 | 19.2 | 423 | 21.2 | 7.9% | 20 | 19.2 | 385 | 19.3 | 1.8% |
| 1,4 DIFLUORO BENZENE | PID | 8.1 | 20 | 10.8 | 165 | 8.3 | 1.9% | 20 | 10.8 | 150 | 7.5 | 7.4% |
| CHLOROBENZENE | PID | 19.8 | 20 | 17.7 | 425 | 21.3 | 7.3% | 20 | 17.7 | 383 | 19.2 | 3.3% |
| 4 BROMOFLUORO BENZENE | PID | 33.2 | 20 | 20.9 | 715 | 35.8 | 7.7% | 20 | 20.9 | 647 | 32.4 | 2.6% |

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)
ANALYSES PERFORMED BY: ALLEN GLOVER
DATA REVIEWED BY: JAMES E. PICKER

# HP Labs

QA/QC - CALIBRATION DATA

DATE: 12/21/00
HP Labs Project #2K1221W1
WINNEBAGO 1

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT # A7120160
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT # A9050254
INSTRUMENT: SHIMADZU GC14A FRONT

| | | | OPENING STANDARD | | | | | CLOSING STANDARD | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COMPOUND | DETECTOR | AVE RF | MASS | RT | AREA | CF | %DIFF | MASS | RT | AREA | CF | %DIFF |
| CARBON TETRACHLORIDE | HALL | 246 | 20 | 10.2 | 5,560 | 278 | 13.0% | 20 | 10.3 | 4,205 | 210 | 14.6% |
| 1,1-DICHLORO ETHANE | HALL | 321 | 20 | 7.7 | 5,894 | 295 | 8.2% | 20 | 7.7 | 5,691 | 285 | 11.3% |
| 1,2-DICHLORO ETHANE | HALL | 401 | 20 | 10.3 | 9,179 | 459 | 14.5% | 20 | 10.4 | 7,191 | 360 | 10.3% |
| 1,1-DICHLORO ETHENE | PID | 6.2 | 20 | 5.8 | 120 | 6.0 | 3.2% | 20 | 5.9 | 112 | 5.6 | 9.7% |
| CIS-1,2-DICHLORO ETHENE | PID | 8.7 | 20 | 8.5 | 194 | 9.7 | 11.5% | 20 | 8.6 | 175 | 8.8 | 0.6% |
| TRANS-1,2-DICHLORO ETHENE | PID | 14.9 | 20 | 6.9 | 319 | 16.0 | 7.0% | 20 | 7.0 | 294 | 14.7 | 1.3% |
| TETRACHLORO ETHENE | PID | 9.4 | 20 | 15.7 | 204 | 10.2 | 8.5% | 20 | 15.8 | 197 | 9.9 | 4.8% |
| 1,1,1-TRICHLORO ETHANE | HALL | 299 | 20 | 9.7 | 6,834 | 342 | 14.3% | 20 | 9.7 | 5,033 | 252 | 15.8% |
| 1,1,2-TRICHLORO ETHANE | HALL | 274 | 20 | 15.0 | 6,279 | 314 | 14.5% | 20 | 15.1 | 5,438 | 272 | 0.8% |
| TRICHLORO ETHENE | PID | 12.2 | 20 | 11.5 | 241 | 12.1 | 1.2% | 20 | 11.6 | 226 | 11.3 | 7.4% |
| 1,1,2-TRICHLOROTRIFLUOROETHANE (FR113) | HALL | 131 | 20 | 5.6 | 2,398 | 120 | 8.7% | 20 | 5.7 | 2,128 | 106 | 19.0% |
| BENZENE | PID | 19.5 | 20 | 10.3 | 435 | 21.8 | 11.5% | 20 | 10.4 | 403 | 20.2 | 3.3% |
| ETHYLBENZENE | PID | 20.2 | 20 | 17.7 | 450 | 22.5 | 11.4% | 20 | 17.9 | 445 | 22.3 | 10.1% |
| TOLUENE | PID | 19.5 | 20 | 14.2 | 446 | 22.3 | 14.4% | 20 | 14.3 | 409 | 20.5 | 4.9% |
| m&p-XYLENES | PID | 22.3 | 40 | 18.0 | 999 | 25.0 | 12.0% | 40 | 18.1 | 1,037 | 25.9 | 16.3% |
| o-XYLENE | PID | 19.6 | 20 | 19.2 | 423 | 21.2 | 7.9% | 20 | 19.2 | 412 | 20.6 | 5.1% |
| 1,4 DIFLUORO BENZENE | PID | 8.1 | 20 | 10.8 | 174 | 8.7 | 7.4% | 20 | 10.8 | 163 | 8.2 | 0.6% |
| CHLOROBENZENE | PID | 19.8 | 20 | 17.7 | 417 | 20.9 | 5.3% | 20 | 17.8 | 440 | 22.0 | 11.1% |
| 4 BROMOFLUORO BENZENE | PID | 33.2 | 20 | 20.9 | 741 | 37.1 | 11.6% | 20 | 21.0 | 706 | 35.3 | 6.3% |

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)
ANALYSES PERFORMED BY: ALLEN GLOVER
DATA REVIEWED BY: JAMES E. PICKER

# HP Labs

QA/QC - CALIBRATION DATA

DATE: 12/22/00
HP Labs Project #2K1222W1
WINNEBAGO 1

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT # A7120160
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT # A9050254
INSTRUMENT: SHIMADZU GC14A FRONT

| | | | OPENING STANDARD | | | | | CLOSING STANDARD | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COMPOUND | DETECTOR | AVE RF | MASS | RT | AREA | CF | %DIFF | MASS | RT | AREA | CF | %DIFF |
| CARBON TETRACHLORIDE | HALL | 246 | 20 | 10.2 | 5,496 | 275 | 11.7% | 20 | 10.2 | 4,916 | 246 | 0.1% |
| 1,1-DICHLORO ETHANE | HALL | 321 | 20 | 7.7 | 6,355 | 318 | 1.0% | 20 | 7.7 | 5,598 | 280 | 12.8% |
| 1,2-DICHLORO ETHANE | HALL | 401 | 20 | 10.3 | 9,110 | 456 | 13.7% | 20 | 10.4 | 8,236 | 412 | 2.8% |
| 1,1-DICHLORO ETHENE | PID | 6.2 | 20 | 5.8 | 111 | 5.6 | 10.5% | 20 | 5.8 | 108 | 5.4 | 12.9% |
| CIS-1,2-DICHLORO ETHENE | PID | 8.7 | 20 | 8.5 | 179 | 9.0 | 2.9% | 20 | 8.6 | 175 | 8.8 | 0.6% |
| TRANS-1,2-DICHLORO ETHENE | PID | 14.9 | 20 | 6.9 | 301 | 15.1 | 1.0% | 20 | 7.0 | 294 | 14.7 | 1.3% |
| TETRACHLORO ETHENE | PID | 9.4 | 20 | 15.7 | 199 | 10.0 | 5.9% | 20 | 15.8 | 187 | 9.4 | 0.5% |
| 1,1,1-TRICHLORO ETHANE | HALL | 299 | 20 | 9.7 | 6,799 | 340 | 13.7% | 20 | 9.7 | 5,978 | 299 | 0.0% |
| 1,1,2-TRICHLORO ETHANE | HALL | 274 | 20 | 15.0 | 6,210 | 311 | 13.2% | 20 | 15.0 | 5,373 | 269 | 2.0% |
| TRICHLORO ETHENE | PID | 12.2 | 20 | 11.5 | 225 | 11.3 | 7.8% | 20 | 11.5 | 215 | 10.8 | 11.9% |
| 1,1,2-TRICHLOROTRIFLUOROETHANE (FR113) | HALL | 131 | 20 | 5.6 | 2,303 | 115 | 12.3% | 20 | 5.7 | 2,273 | 114 | 13.4% |
| BENZENE | PID | 19.5 | 20 | 10.3 | 404 | 20.2 | 3.6% | 20 | 10.4 | 381 | 19.1 | 2.3% |
| ETHYLBENZENE | PID | 20.2 | 20 | 17.8 | 459 | 23.0 | 13.6% | 20 | 17.8 | 426 | 21.3 | 5.4% |
| TOLUENE | PID | 19.5 | 20 | 14.2 | 411 | 20.6 | 5.4% | 20 | 14.2 | 394 | 19.7 | 1.0% |
| m&p-XYLENES | PID | 22.3 | 40 | 18.0 | 1,020 | 25.5 | 14.3% | 40 | 18.0 | 980 | 24.5 | 9.9% |
| o-XYLENE | PID | 19.6 | 20 | 19.1 | 420 | 21.0 | 7.1% | 20 | 19.2 | 392 | 19.6 | 0.0% |
| 1,4 DIFLUORO BENZENE | PID | 8.1 | 20 | 10.7 | 163 | 8.2 | 0.6% | 20 | 10.8 | 155 | 7.8 | 4.3% |
| CHLOROBENZENE | PID | 19.8 | 20 | 17.7 | 403 | 20.2 | 1.8% | 20 | 17.7 | 404 | 20.2 | 2.0% |
| 4 BROMOFLUORO BENZENE | PID | 33.2 | 20 | 20.9 | 706 | 35.3 | 6.3% | 20 | 20.9 | 660 | 33.0 | 0.6% |

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)
ANALYSES PERFORMED BY: ALLEN GLOVER
DATA REVIEWED BY: JAMES E. PICKER

# HP Labs

QA/QC - CALIBRATION DATA

DATE: 12/27/00
HP Labs Project #2K1227W1
WINNEBAGO 1

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT # A7120160
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT # A9050254
INSTRUMENT: SHIMADZU GC14A FRONT

| | | | OPENING STANDARD | | | | | CLOSING STANDARD | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COMPOUND | DETECTOR | AVE RF | MASS | RT | AREA | CF | %DIFF | MASS | RT | AREA | CF | %DIFF |
| CARBON TETRACHLORIDE | HALL | 246 | 20 | 10.2 | 5,611 | 281 | 14.0% | 20 | 10.2 | 4,660 | 233 | 5.3% |
| 1,1-DICHLORO ETHANE | HALL | 321 | 20 | 7.7 | 6,708 | 335 | 4.5% | 20 | 7.7 | 5,147 | 257 | 19.8% |
| 1,2-DICHLORO ETHANE | HALL | 401 | 20 | 10.4 | 8,711 | 436 | 8.7% | 20 | 10.4 | 7,381 | 369 | 7.9% |
| 1,1-DICHLORO ETHENE | PID | 6.2 | 20 | 5.8 | 113 | 5.7 | 8.9% | 20 | 5.8 | 107 | 5.4 | 13.7% |
| CIS-1,2-DICHLORO ETHENE | PID | 8.7 | 20 | 8.6 | 159 | 8.0 | 8.6% | 20 | 8.6 | 167 | 8.4 | 4.0% |
| TRANS-1,2-DICHLORO ETHENE | PID | 14.9 | 20 | 7.0 | 282 | 14.1 | 5.4% | 20 | 7.0 | 284 | 14.2 | 4.7% |
| TETRACHLORO ETHENE | PID | 9.4 | 20 | 15.8 | 172 | 8.6 | 8.5% | 20 | 15.8 | 188 | 9.4 | 0.0% |
| 1,1,1-TRICHLORO ETHANE | HALL | 299 | 20 | 9.7 | 6,603 | 330 | 10.4% | 20 | 9.7 | 5,574 | 279 | 6.8% |
| 1,1,2-TRICHLORO ETHANE | HALL | 274 | 20 | 15.0 | 5,808 | 290 | 5.9% | 20 | 15.0 | 5,232 | 262 | 4.6% |
| TRICHLORO ETHENE | PID | 12.2 | 20 | 11.5 | 212 | 10.6 | 13.1% | 20 | 11.5 | 212 | 10.6 | 13.1% |
| 1,1,2-TRICHLOROTRIFLUOROETHANE (FR113) | HALL | 131 | 20 | 5.7 | 2,805 | 140 | 6.8% | 20 | 5.7 | 2,020 | 101 | 23.1% |
| BENZENE | PID | 19.5 | 20 | 10.4 | 366 | 18.3 | 6.2% | 20 | 10.4 | 381 | 19.1 | 2.3% |
| ETHYLBENZENE | PID | 20.2 | 20 | 17.8 | 398 | 19.9 | 1.5% | 20 | 17.8 | 386 | 19.3 | 4.5% |
| TOLUENE | PID | 19.5 | 20 | 14.2 | 363 | 18.2 | 6.9% | 20 | 14.2 | 390 | 19.5 | 0.0% |
| m&p-XYLENES | PID | 22.3 | 40 | 18.0 | 893 | 22.3 | 0.1% | 40 | 18.0 | 983 | 24.6 | 10.2% |
| o-XYLENE | PID | 19.6 | 20 | 19.2 | 358 | 17.9 | 8.7% | 20 | 19.2 | 391 | 19.6 | 0.3% |
| 1,4 DIFLUORO BENZENE | PID | 8.1 | 20 | 10.8 | 145 | 7.3 | 10.5% | 20 | 10.8 | 154 | 7.7 | 4.9% |
| CHLOROBENZENE | PID | 19.8 | 20 | 17.7 | 346 | 17.3 | 12.6% | 20 | 17.7 | 434 | 21.7 | 9.6% |
| 4 BROMOFLUORO BENZENE | PID | 33.2 | 20 | 20.9 | 592 | 29.6 | 10.8% | 20 | 20.9 | 659 | 33.0 | 0.8% |

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)
ANALYSES PERFORMED BY: ALLEN GLOVER
DATA REVIEWED BY: JAMES E. PICKER

# HP Labs

QA/QC - CALIBRATION DATA

DATE: 12/28/00
HP Labs Project #2K1228W1
WINNEBAGO 1

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT # A7120160
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT # A9050254
INSTRUMENT: SHIMADZU GC14A FRONT

| | | | OPENING STANDARD | | | | | CLOSING STANDARD | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COMPOUND | DETECTOR | AVE RF | MASS | RT | AREA | CF | %DIFF | MASS | RT | AREA | CF | %DIFF |
| CARBON TETRACHLORIDE | HALL | 246 | 20 | 10.2 | 4,238 | 212 | 13.9% | 20 | 10.2 | 4,493 | 225 | 8.7% |
| 1,1-DICHLORO ETHANE | HALL | 321 | 20 | 7.7 | 6,209 | 310 | 3.3% | 20 | 7.7 | 5,514 | 276 | 14.1% |
| 1,2-DICHLORO ETHANE | HALL | 401 | 20 | 10.4 | 8,455 | 423 | 5.5% | 20 | 10.4 | 8,526 | 426 | 6.4% |
| 1,1-DICHLORO ETHENE | PID | 6.2 | 20 | 5.8 | 111 | 5.6 | 10.5% | 20 | 5.8 | 113 | 5.7 | 8.9% |
| CIS-1,2-DICHLORO ETHENE | PID | 8.7 | 20 | 8.6 | 177 | 8.9 | 1.7% | 20 | 8.6 | 173 | 8.7 | 0.6% |
| TRANS-1,2-DICHLORO ETHENE | PID | 14.9 | 20 | 6.9 | 296 | 14.8 | 0.7% | 20 | 7.0 | 273 | 13.7 | 8.4% |
| TETRACHLORO ETHENE | PID | 9.4 | 20 | 15.8 | 203 | 10.2 | 8.0% | 20 | 15.8 | 193 | 9.7 | 2.7% |
| 1,1,1-TRICHLORO ETHANE | HALL | 299 | 20 | 9.7 | 5,901 | 295 | 1.3% | 20 | 9.7 | 5,629 | 281 | 5.9% |
| 1,1,2-TRICHLORO ETHANE | HALL | 274 | 20 | 15.0 | 6,245 | 312 | 13.9% | 20 | 15.0 | 5,401 | 270 | 1.5% |
| TRICHLORO ETHENE | PID | 12.2 | 20 | 11.5 | 222 | 11.1 | 9.0% | 20 | 11.6 | 220 | 11.0 | 9.8% |
| 1,1,2-TRICHLOROTRIFLUOROETHANE (FR113) | HALL | 131 | 20 | 5.6 | 2,299 | 115 | 12.5% | 20 | 5.7 | 2,275 | 114 | 13.4% |
| BENZENE | PID | 19.5 | 20 | 10.4 | 399 | 20.0 | 2.3% | 20 | 10.4 | 387 | 19.4 | 0.8% |
| ETHYLBENZENE | PID | 20.2 | 20 | 17.8 | 441 | 22.1 | 9.2% | 20 | 17.9 | 447 | 22.4 | 10.6% |
| TOLUENE | PID | 19.5 | 20 | 14.2 | 423 | 21.2 | 8.5% | 20 | 14.2 | 401 | 20.1 | 2.8% |
| m&p-XYLENES | PID | 22.3 | 40 | 18.0 | 1,018 | 25.5 | 14.1% | 40 | 18.1 | 1,020 | 25.5 | 14.3% |
| o-XYLENE | PID | 19.6 | 20 | 19.2 | 423 | 21.2 | 7.9% | 20 | 19.2 | 403 | 20.2 | 2.8% |
| 1,4 DIFLUORO BENZENE | PID | 8.1 | 20 | 10.8 | 163 | 8.2 | 0.6% | 20 | 10.8 | 157 | 7.9 | 3.1% |
| CHLOROBENZENE | PID | 19.8 | 20 | 17.7 | 440 | 22.0 | 11.1% | 20 | 17.8 | 410 | 20.5 | 3.5% |
| 4 BROMOFLUORO BENZENE | PID | 33.2 | 20 | 20.9 | 710 | 35.5 | 6.9% | 20 | 21.0 | 677 | 33.9 | 2.0% |

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)
ANALYSES PERFORMED BY: ALLEN GLOVER
DATA REVIEWED BY: JAMES E. PICKER