

LB08177 CN2

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092

## MERCURY ANALYSIS LOGBOOK

| Date            | Case Number | Batch Number | Start Time | BLK   | STD1  | STD2   | STD3   | STD4   |
|-----------------|-------------|--------------|------------|-------|-------|--------|--------|--------|
| 9/21/13 (7470)  | E3018       | RB 72474     | 10:16      | -7421 | 21296 | 303972 | 740502 | 118610 |
| 9/22/13 (7470)  | E3072       | RB 72492     | 10:09      | 353   | 2449  | 280591 | 44578  | 73681  |
| 9/23/13 (7470)  | E3073       | RB 72493     | ↓          | ↓     | ↓     | ↓      | ↓      | ↓      |
| 9/24/13 (7470)  | E3081       | RB 72500     | 15:11      | -99   | 1759  | 21281  | 41100  | 60221  |
| 10/11/13 (7470) | E3112       | RB 72558     | 9:05       | -30   | 1925  | 22277  | 40553  | 61001  |
| 10/12/13 (7470) | E3141       | RB 72562     | 9:29       | -30   | 1051  | 12704  | 25506  | 38225  |
| 10/13/13 (7470) | E3206       | RB 72602     | 10:14      | -18   | 1010  | 13179  | 27331  | 31307  |
| 10/14/13 (7470) | E3287       | RB 72601     | 12:55      | -207  | 1188  | 15452  | 32233  | 47221  |
| 10/15/13 (7470) | E3053       | RB 72603     | 12:37      | -255  | 15952 | 20804  | 309137 | 62609  |
| 10/16/13 (7470) | E3064       | ↓            | ↓          | ↓     | ↓     | ↓      | ↓      | ↓      |
| 10/17/13 (7470) | E3048       | RB 72610     | ↓          | ↓     | ↓     | ↓      | ↓      | ↓      |
| 10/18/13 (7470) | E3151       | ↓            | ↓          | ↓     | ↓     | ↓      | ↓      | ↓      |
| 10/19/13 (7470) | E3064       | ↓            | ↓          | ↓     | ↓     | ↓      | ↓      | ↓      |
| 10/21/13 (7470) | E3183       | RB 72661     | 8:53       | 15707 | 24631 | 108027 | 351304 | 550215 |
| 10/22/13 (7470) | E3175       | RB 72718     | 15:45      | 923   | 18324 | 215217 | 408352 | 618179 |
| 10/23/13 (7470) | E3178       | ↓            | ↓          | ↓     | ↓     | ↓      | ↓      | ↓      |
| 10/24/13 (7470) | E3191       | ↓            | ↓          | ↓     | ↓     | ↓      | ↓      | ↓      |
| 10/25/13 (7470) | E4000       | ↓            | ↓          | ↓     | ↓     | ↓      | ↓      | ↓      |
| 10/26/13 (7470) | E3044       | RB 72751     | 14:05      | -103  | 14284 | 194625 | 380413 | 565815 |
| 10/27/13 (7470) | E3063       | ↓            | ↓          | ↓     | ↓     | ↓      | ↓      | ↓      |
| 10/28/13 (7470) | E4020       | RB 72758     | 9:49       | -19   | 1904  | 22759  | 441096 | 65104  |
| 10/29/13 (7470) | E3069       | RB 72786     | 12:21      | -326  | 2249  | 25354  | 491544 | 741292 |
| 10/30/13 (7470) | E4079       | RB 72823     | 11:40      | -190  | 842   | 10773  | 33285  | 40320  |
| 10/31/13 (7470) | E4092       | RB 72817     | 10:01      | 124   | 2341  | 21916  | 427710 | 63412  |
| 11/1/13 (7470)  | E4097       | RB 72818     | ↓          | ↓     | ↓     | ↓      | ↓      | ↓      |
| 11/2/13 (7470)  | E4098       | RB 72819     | ↓          | ↓     | ↓     | ↓      | ↓      | ↓      |

QA Control # A3040930

Page 80

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092

## MERCURY ANALYSIS LOGBOOK

| STD 5   | End Time | Correlation Coefficient | Stannous Chloride Prep log # | Comment  | Analyst | Supervisor Signature |
|---------|----------|-------------------------|------------------------------|----------|---------|----------------------|
| 1505940 | 14:25    | 0.999922                | MP18087                      | ICV18-71 | JR      | AS                   |
| 93208   | 11:30    | 0.999331                | MP18105                      | ICV18-72 | JR      | AS                   |
| ↓       | ↓        | ↓                       | ↓                            | CCV18-73 | JR      | AS                   |
| 82019   | 15:58    | 0.999842                | MP18105                      | ICV18-73 | JR      | AS                   |
| 80557   | 10:30    | 0.999978                | MP18159                      | ICV18-74 | JR      | AS                   |
| 52226   | 10:30    | 0.999826                | MP18197                      | ICV18-75 | JR      | AS                   |
| 52402   | 11:18    | 0.999587                | MP18219                      | ICV18-76 | JR      | AS                   |
| 62544   | 13:39    | 0.999867                | MP18219                      | ICV18-77 | JR      | AS                   |
| 827850  | 14:50    | 0.999604                | MP18236                      | ICV18-78 | JR      | AS                   |
| ↓       | ↓        | ↓                       | ↓                            | CCV18-79 | JR      | AS                   |
| ↓       | ↓        | ↓                       | ↓                            | ↓        | JR      | AS                   |
| 743463  | 9:58     | 0.999317                | MP18253                      | ICV18-78 | JR      | AS                   |
| 801279  | 17:21    | 0.999789                | MP18253                      | ICV18-79 | JR      | AS                   |
| ↓       | ↓        | ↓                       | ↓                            | CCV18-80 | JR      | AS                   |
| 762627  | 15:16    | 0.999876                | MP18313                      | ICV18-80 | JR      | AS                   |
| ↓       | ↓        | ↓                       | ↓                            | CCV18-81 | JR      | AS                   |
| 84898   | 10:32    | 0.999913                | MP18329                      | ICV18-81 | JR      | AS                   |
| 97916   | 13:00    | 0.999924                | MP18345                      | ICV18-82 | JR      | AS                   |
| 65500   | 12:26    | 0.999915                | MP18362                      | ICV18-83 | JR      | AS                   |
| 80280   | 11:21    | 0.999981                | MP18378                      | ICV18-84 | JR      | AS                   |
| ↓       | ↓        | ↓                       | ↓                            | CCV18-85 | JR      | AS                   |
| ↓       | ↓        | ↓                       | ↓                            | ↓        | JR      | AS                   |

QA Control # A3040930

Page 81

LB08177 CN2

WinHg Database 1.4

File Utility Help

RN↓

RN↑

?

Instrument ID: CV2

Protocol chemtech

Dataset/Proto LB68177 /chemtech

Protocol

Line info

Cal Curve

Report

Ctrl Chart

Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.17201e-4

C -3.37437e-2

Rho 999881

Type Linear

Accept

Rel. Abs. 86280

Accepted

New

Slope

Intercept

Calibrated

Accepted

Include S4

Rep 1

2

3

4

5

Conc. 10.1

10.1

01 .00000 -.019 -.019 124 0 124

02 .20000 .241 .041 2342 0% 2341

03 2.5000 2.52 .023 21816 0% 21816

04 5.0000 4.98 -.021 42770 0% 42770

05 7.5000 7.40 -.102 63413 0% 63412

06 10.000 10.1 .078 86281 0% 86280

Rep 1

Rep 2

Rep 3

9.0 D

21

0

-1

1

10/15/13

Ready

CAP NUM

## \*\*\*POST-RUN REPORT\*\*\*

| Line                   | Conc. | Units | SD/RSD    | 1       | 2        | 3         | 4  | 5 |
|------------------------|-------|-------|-----------|---------|----------|-----------|----|---|
| -----                  |       |       |           |         |          |           |    |   |
| *** Standard: 1 Rep: 1 | 50.0  |       |           | Seq: 12 | 10:01:28 | 15 Oct 13 | HG |   |
| Hg                     | .000  | PPB   | 124       |         |          |           |    | = |
| *** Standard: 2 Rep: 1 | 50.2  |       |           | Seq: 13 | 10:03:03 | 15 Oct 13 | HG |   |
| Hg                     | .200  | PPB   | 2341      |         |          |           |    | = |
| *** Standard: 3 Rep: 1 | 52.5  |       |           | Seq: 14 | 10:04:38 | 15 Oct 13 | HG |   |
| Hg                     | 2.50  | PPB   | 21816     |         |          |           |    | = |
| *** Standard: 4 Rep: 1 | 55.0  |       |           | Seq: 15 | 10:06:46 | 15 Oct 13 | HG |   |
| Hg                     | 5.00  | PPB   | 42770     |         |          |           |    | = |
| *** Standard: 5 Rep: 1 | 57.5  |       |           | Seq: 16 | 10:08:33 | 15 Oct 13 | HG |   |
| Hg                     | 7.50  | PPB   | 63412     |         |          |           |    | = |
| *** Standard: 6 Rep: 1 | 50.0  |       |           | Seq: 17 | 10:10:28 | 15 Oct 13 | HG |   |
| Hg                     | 10.0  | PPB   | 86280     |         |          |           |    | = |
| *** Sample ID: ICV84   |       |       |           | Seq: 18 | 10:12:16 | 15 Oct 13 | HG |   |
|                        |       |       | ICV84     |         |          |           |    | = |
| Hg                     | 3.87  | PPB   | 33318     |         |          |           |    | = |
| =====                  |       |       |           |         |          |           |    |   |
| *** Sample ID: ICB84   |       |       |           | Seq: 19 | 10:13:50 | 15 Oct 13 | HG |   |
|                        |       |       | ICB84     |         |          |           |    | = |
| Hg                     | -.046 | PPB   | -105      |         |          |           |    | = |
| =====                  |       |       |           |         |          |           |    |   |
| *** Sample ID: CCV54   |       |       |           | Seq: 20 | 10:15:29 | 15 Oct 13 | HG |   |
|                        |       |       | CCV54     |         |          |           |    | = |
| Hg                     | 4.97  | PPB   | 42687     |         |          |           |    | = |
| =====                  |       |       |           |         |          |           |    |   |
| *** Sample ID: CCB54   |       |       |           | Seq: 21 | 10:17:13 | 15 Oct 13 | HG |   |
|                        |       |       | CCB54     |         |          |           |    | = |
| Hg                     | -.018 | PPB   | 132       |         |          |           |    | = |
| =====                  |       |       |           |         |          |           |    |   |
| *** Sample ID: PBW02   |       |       |           | Seq: 22 | 10:18:51 | 15 Oct 13 | HG |   |
|                        |       |       | PB72847BL |         |          |           |    | = |
| Hg                     | -.022 | PPB   | 97        |         |          |           |    | = |
| =====                  |       |       |           |         |          |           |    |   |
| *** Sample ID: ME3RC9  |       |       |           | Seq: 23 | 10:20:30 | 15 Oct 13 | HG |   |
|                        |       |       | E4092-01  |         |          |           |    | = |
| Hg                     | -.017 | PPB   | 142       |         |          |           |    | = |
| =====                  |       |       |           |         |          |           |    |   |
| *** Sample ID: ME3RD0  |       |       |           | Seq: 24 | 10:22:06 | 15 Oct 13 | HG |   |
|                        |       |       | E4092-02  |         |          |           |    | = |
| Hg                     | -.016 | PPB   | 149       |         |          |           |    | = |
| =====                  |       |       |           |         |          |           |    |   |
| *** Sample ID: ME3RD1  |       |       |           | Seq: 25 | 10:23:45 | 15 Oct 13 | HG |   |
|                        |       |       | E4092-03  |         |          |           |    | = |
| Hg                     | -.001 | PPB   | 278       |         |          |           |    | = |
| =====                  |       |       |           |         |          |           |    |   |

Protocol: chemtech

\*\*\*POST-RUN REPORT\*\*\*

| Line                   | Conc. | Units | SD/RSD   | 1       | 2        | 3         | 4  | 5 |
|------------------------|-------|-------|----------|---------|----------|-----------|----|---|
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: ME3RD2  |       |       |          | Seq: 26 | 10:25:22 | 15 Oct 13 | HG |   |
|                        |       |       | E4092-04 |         |          |           |    |   |
| Hg                     | -.021 | PPB   | 106      |         |          |           |    | = |
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: ME3RD2D |       |       |          | Seq: 27 | 10:27:01 | 15 Oct 13 | HG |   |
|                        |       |       | E4092-05 |         |          |           |    |   |
| Hg                     | -.009 | PPB   | 210      |         |          |           |    | = |
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: ME3RD2S |       |       |          | Seq: 28 | 10:28:50 | 15 Oct 13 | HG |   |
|                        |       |       | E4092-06 |         |          |           |    |   |
| Hg                     | 1.05  | PPB   | 9258     |         |          |           |    | = |
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: ME3RD3  |       |       |          | Seq: 29 | 10:31:04 | 15 Oct 13 | HG |   |
|                        |       |       | E4092-07 |         |          |           |    |   |
| Hg                     | -.031 | PPB   | 24       |         |          |           |    | = |
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: ME3RD4  |       |       |          | Seq: 30 | 10:32:38 | 15 Oct 13 | HG |   |
|                        |       |       | E4092-08 |         |          |           |    |   |
| Hg                     | .024  | PPB   | 490      |         |          |           |    | = |
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: ME3RE0  |       |       |          | Seq: 31 | 10:34:42 | 15 Oct 13 | HG |   |
|                        |       |       | E4092-09 |         |          |           |    |   |
| Hg                     | -.066 | PPB   | -272     |         |          |           |    | = |
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: ME3RD5  |       |       |          | Seq: 32 | 10:36:29 | 15 Oct 13 | HG |   |
|                        |       |       | E4092-10 |         |          |           |    |   |
| Hg                     | -.004 | PPB   | 256      |         |          |           |    | = |
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: ME3RD6  |       |       |          | Seq: 33 | 10:38:29 | 15 Oct 13 | HG |   |
|                        |       |       | E4092-11 |         |          |           |    |   |
| Hg                     | -.015 | PPB   | 157      |         |          |           |    | = |
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: ME3RD7  |       |       |          | Seq: 34 | 10:40:03 | 15 Oct 13 | HG |   |
|                        |       |       | E4092-12 |         |          |           |    |   |
| Hg                     | -.017 | PPB   | 142      |         |          |           |    | = |
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: ME3RD8  |       |       |          | Seq: 35 | 10:41:50 | 15 Oct 13 | HG |   |
|                        |       |       | E4092-13 |         |          |           |    |   |
| Hg                     | -.024 | PPB   | 84       |         |          |           |    | = |
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: ME3RD9  |       |       |          | Seq: 36 | 10:43:50 | 15 Oct 13 | HG |   |
|                        |       |       | E4092-14 |         |          |           |    |   |
| Hg                     | -.026 | PPB   | 68       |         |          |           |    | = |
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: ME3RE1  |       |       |          | Seq: 37 | 10:45:54 | 15 Oct 13 | HG |   |
|                        |       |       | E4092-15 |         |          |           |    |   |
| Hg                     | -.118 | PPB   | -723     |         |          |           |    | = |
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: ME3RE2  |       |       |          | Seq: 38 | 10:47:35 | 15 Oct 13 | HG |   |
|                        |       |       | E4092-16 |         |          |           |    |   |
| Hg                     | -.020 | PPB   | 113      |         |          |           |    | = |
| =====                  |       |       |          |         |          |           |    |   |

## \*\*\*POST-RUN REPORT\*\*\*

| Line           | Conc.   | Units | SD/RSD    | 1       | 2        | 3         | 4  | 5 |
|----------------|---------|-------|-----------|---------|----------|-----------|----|---|
| =====          |         |       |           |         |          |           |    |   |
| *** Sample ID: | ME3RE3  |       |           | Seq: 39 | 10:49:34 | 15 Oct 13 | HG |   |
|                |         |       | E4092-17  |         |          |           |    |   |
| Hg             | -.103   | PPB   | -593      |         |          |           |    | = |
| =====          |         |       |           |         |          |           |    |   |
| *** Sample ID: | CCV55   |       |           | Seq: 40 | 10:51:19 | 15 Oct 13 | HG |   |
|                |         |       | CCV55     |         |          |           |    |   |
| Hg             | 4.75    | PPB   | 40825     |         |          |           |    | = |
| =====          |         |       |           |         |          |           |    |   |
| *** Sample ID: | CCB55   |       |           | Seq: 41 | 10:53:08 | 15 Oct 13 | HG |   |
|                |         |       | CCB55     |         |          |           |    |   |
| Hg             | .007    | PPB   | 348       |         |          |           |    | = |
| =====          |         |       |           |         |          |           |    |   |
| *** Sample ID: | PBW02   |       |           | Seq: 42 | 10:55:04 | 15 Oct 13 | HG |   |
|                |         |       | PB72848BL |         |          |           |    |   |
| Hg             | .009    | PPB   | 362       |         |          |           |    | = |
| =====          |         |       |           |         |          |           |    |   |
| *** Sample ID: | MC0AC1  |       |           | Seq: 43 | 10:57:28 | 15 Oct 13 | HG |   |
|                |         |       | E4097-01  |         |          |           |    |   |
| Hg             | -.035   | PPB   | -10       |         |          |           |    | = |
| =====          |         |       |           |         |          |           |    |   |
| *** Sample ID: | MC0AC3  |       |           | Seq: 44 | 10:59:04 | 15 Oct 13 | HG |   |
|                |         |       | E4097-02  |         |          |           |    |   |
| Hg             | -.037   | PPB   | -32       |         |          |           |    | = |
| =====          |         |       |           |         |          |           |    |   |
| *** Sample ID: | MC0AD1  |       |           | Seq: 45 | 11:00:43 | 15 Oct 13 | HG |   |
|                |         |       | E4097-03  |         |          |           |    |   |
| Hg             | -.107   | PPB   | -624      |         |          |           |    | = |
| =====          |         |       |           |         |          |           |    |   |
| *** Sample ID: | MC0AD1D |       |           | Seq: 46 | 11:02:41 | 15 Oct 13 | HG |   |
|                |         |       | E4097-04  |         |          |           |    |   |
| Hg             | -.029   | PPB   | 39        |         |          |           |    | = |
| =====          |         |       |           |         |          |           |    |   |
| *** Sample ID: | MC0AD1S |       |           | Seq: 47 | 11:04:22 | 15 Oct 13 | HG |   |
|                |         |       | E4097-05  |         |          |           |    |   |
| Hg             | 1.02    | PPB   | 9033      |         |          |           |    | = |
| =====          |         |       |           |         |          |           |    |   |
| *** Sample ID: | MC0AD3  |       |           | Seq: 48 | 11:05:58 | 15 Oct 13 | HG |   |
|                |         |       | E4097-06  |         |          |           |    |   |
| Hg             | -.031   | PPB   | 20        |         |          |           |    | = |
| =====          |         |       |           |         |          |           |    |   |
| *** Sample ID: | PBW02   |       |           | Seq: 49 | 11:07:48 | 15 Oct 13 | HG |   |
|                |         |       | PB72849BL |         |          |           |    |   |
| Hg             | -.021   | PPB   | 112       |         |          |           |    | = |
| =====          |         |       |           |         |          |           |    |   |
| *** Sample ID: | MC0AC0  |       |           | Seq: 50 | 11:09:26 | 15 Oct 13 | HG |   |
|                |         |       | E4098-01  |         |          |           |    |   |
| Hg             | -.053   | PPB   | -166      |         |          |           |    | = |
| =====          |         |       |           |         |          |           |    |   |
| *** Sample ID: | MC0AC2  |       |           | Seq: 51 | 11:11:11 | 15 Oct 13 | HG |   |
|                |         |       | E4098-02  |         |          |           |    |   |
| Hg             | .355    | PPB   | 3314      |         |          |           |    | = |
| =====          |         |       |           |         |          |           |    |   |

Protocol: chemtech

\*\*\*POST-RUN REPORT\*\*\*

| Line                   | Conc. | Units | SD/RSD   | 1       | 2        | 3         | 4  | 5 |
|------------------------|-------|-------|----------|---------|----------|-----------|----|---|
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: MC0AD0  |       |       |          | Seq: 52 | 11:13:06 | 15 Oct 13 | HG |   |
|                        |       |       | E4098-03 |         |          |           |    |   |
| Hg                     | -.033 | PPB   | 9        |         |          |           |    | = |
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: MC0AD0D |       |       |          | Seq: 53 | 11:14:40 | 15 Oct 13 | HG |   |
|                        |       |       | E4098-04 |         |          |           |    |   |
| Hg                     | -.020 | PPB   | 121      |         |          |           |    | = |
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: MC0AD0S |       |       |          | Seq: 54 | 11:16:18 | 15 Oct 13 | HG |   |
|                        |       |       | E4098-05 |         |          |           |    |   |
| Hg                     | 1.03  | PPB   | 9065     |         |          |           |    | = |
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: MC0AD2  |       |       |          | Seq: 55 | 11:18:07 | 15 Oct 13 | HG |   |
|                        |       |       | E4098-06 |         |          |           |    |   |
| Hg                     | -.014 | PPB   | 170      |         |          |           |    | = |
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: CCV56   |       |       |          | Seq: 56 | 11:19:42 | 15 Oct 13 | HG |   |
|                        |       |       | CCV56    |         |          |           |    |   |
| Hg                     | 4.91  | PPB   | 42200    |         |          |           |    | = |
| =====                  |       |       |          |         |          |           |    |   |
| *** Sample ID: CCB56   |       |       |          | Seq: 57 | 11:21:18 | 15 Oct 13 | HG |   |
|                        |       |       | CCB56    |         |          |           |    |   |
| Hg                     | -.012 | PPB   | 186      |         |          |           |    | = |